

# Mandatory Disclosure

- Mandatory Disclosure by Institutions running AICTE approved Engineering programs to be included in their respective Information Brochure, displayed on their website and to be submitted to AICTE every year latest by 30<sup>th</sup> April together with its URL.
- The following information is to be given in the Information Brochure besides being hosted on the Institution's official Website.

*"The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE.".*

## 1. NAME OF THE INSTITUTION:

### **GOVERNMENT ENGINEERING COLLEGE,PATAN**

Village: Katpur, Patan-384265

Ph: 2766297735, 2766297736 Fax:230780

Email: principal@gecpatan.ac.in

## 2. NAME AND ADDRESS OF THE TRUST/SOCIETY/COMPANY AND THE TRUSTEES : NA

## 3. NAME & ADDRESS OF THE PRINCIPAL:

Dr. B. J. Shah

### **GOVERNMENT ENGINEERING COLLEGE,PATAN**

Village: Katpur, Patan-384265

## 4. NAME OF THE AFFILIATING UNIVERSITY:

Gujarat Technological University, Ahmedabad

## ➤ GOVERNANCE

### ● **Members of the Board and their brief background**

The institute is governed by the state government (Gujarat).

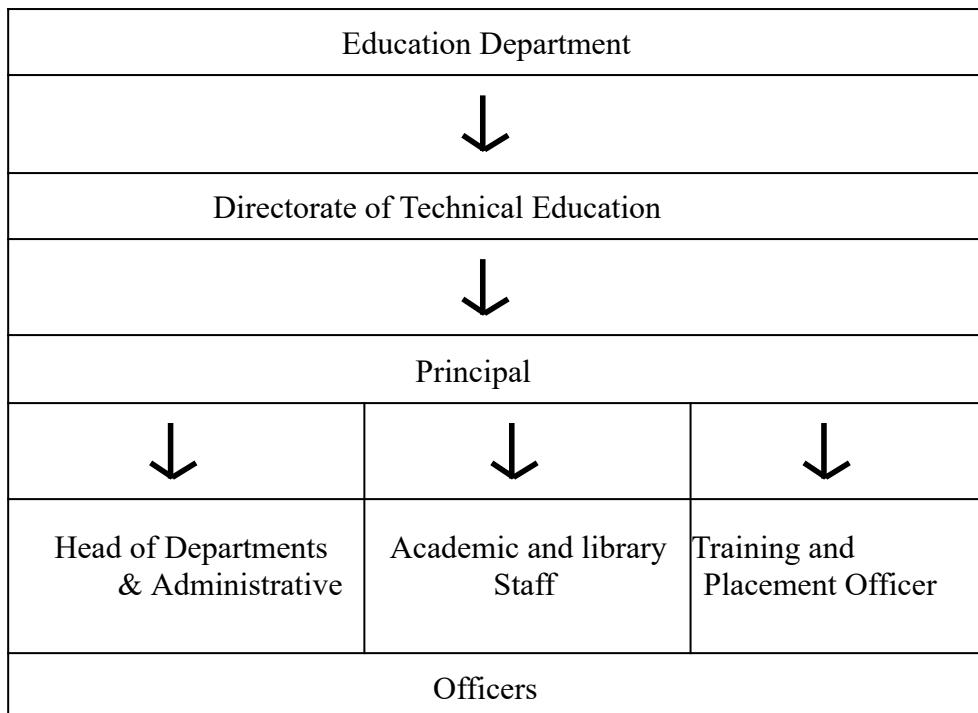
### ● **Members of Academic Advisory Body**

The affiliating university, Gujarat Technological University, Ahmedabad, prescribes the syllabi of all the programs run by the institute. The University has the Boards of Studies for all programs, the Faculties and Academic Council to make decisions pertaining to academic activities at the institute. Hence the Academic Advisory Body is not formed at institute level. Principal and senior staff members are the members of the university faculty body, Examination Committee and Board of Studies.

- **Frequency of the Board Meetings and Academic Advisory Body**

Board Meetings are arranged as and when required but minimum twice in the year. As mentioned earlier the Academic Advisory Body is not required to be formed at institute level.

- **Organizational chart and processes**



- **Nature and Extent of involvement of faculty and students in academic affairs/ improvements**
  1. Regularly the meetings of faculty are arranged at department level.
  2. Weekly meetings of Heads of departments/sections.
  3. Pedagogy lectures series arranged.
  4. Suggestions are sought from faculty & students.
  5. Technical competitions are organized by students under guidance of faculty under the name SEARCH.
  6. The faculty takes feedback from students regularly.
  7. It is made compulsory for all faculty members to display and upgrade the list of addresses of websites relevant to the chapter/topics they are teaching.
  8. Interested students are sent for industrial training.
  9. Students are sent to participate at the technical competitions at other institutes.
- **Mechanism/Norms & Procedure for democratic/good Governance**
  1. Modules for E-governance are developed in-house by the faculty.
  2. No queue concept is practiced.
  3. Mobile Group messaging is placed for contact with students.
  4. Intranet for faster communication.
  5. Parents are regularly informed about the academic performance and attendance of their son/daughter/ward.

- **Student Feedback on Institutional Governance/faculty performance**
  - 6. Feedback from students for faculty performance is regularly taken.
  - 7. A suggestion box is put to collect feedback from all stakeholders.
  - 8. Class representatives give their suggestions through their counselors
- **Grievance redressal mechanism for faculty, staff and students**
  - **Students:**
    - The grievances of students are attended by the Students Grievance Redressal Committee.
    - The grievances are resolved in the meeting of H.O.Ds with the Principal if required.
  - **Faculty and Staff:**
    - Faculty and staff enjoy full freedom to meet the Principal directly for any grievances and if not satisfied can approach the Chairman of the Management directly who takes all necessary steps for redressal of grievances.

## **PROGRAM**

- **Name of the Programs approved by the AICTE**
  1. Mechanical Engineering
  2. Computer Science and Engineering
  3. Electronics and Communication Engineering
  4. Electrical Engineering
  5. Civil Engineering
- **Name of the Programs accredited by the NBA :**

Sr. No.	Name of program	Status of NBA
1	Mechanical Engineering	Applied
2	Computer Science &Engineering	Not Eligible
3	Electronics and Communication Engineering	Eligible
4	Electrical Engineering	Not Eligible
5	Civil Engineering	Not Eligible

- **Status of Accreditation of the Courses:**
  - Total number of Courses: 05
  - No. of Courses for which applied for Accreditation: 01
  - Status of Accreditation – Applied for SAR and visits awaited (specify the number of courses) : For Mechanical Engineering
- **For each Program the following details are to be given:**
  - Name
  - Number of seats
  - Duration
  - Cut off mark/rank for admission during the last three years
  - Fee
  - Placement Facilities
  - Campus placement in last three years with minimum salary, maximum salary and average salary

Name of Department	Year	No. of seats	Duration (years)	Fee Rs. per student
Mechanical Engineering	2021-22	90	4	1500/-
	2022-23	90		
	2023-24	90		
	2024-25	90		
	2025-26	90		
Computer Science Engineering	2021-22	120	4	1500/-
	2022-23	120		
	2023-24	120		
	2024-25	120		
	2025-26	120		
Electronics and Communication Engineering	2021-22	120	4	1500/-
	2022-23	30		
	2023-24	30		
	2024-25	30		
	2025-26	30		
Electrical Engineering	2021-22	60	4	1500/-
	2022-23	60		
	2023-24	60		
	2024-25	60		
	2025-26	60		
Civil Engineering	2021-22	60	4	1500/-
	2022-23	60		
	2023-24	60		
	2024-25	60		
	2025-26	60		

#### Cut off marks (Rank details)

Mechanical Engineering

Year	General	SEBC	SC	ST	EWS
2022-23	14077	-	-	-	-
2023-24	28647	-	-	-	-
2024-25	50609	-	-	-	-
2025-26	37889	-	-	-	-

## Computer Science & Engineering

Year	General	SEBC	SC	ST	EWS
2022-23	10785	16915	26418	23701	13073
2023-24	11868	17324	23224	28040	14594
2024-25	12445	21796	25716	50368	12688
2025-26	16394	21320	21475	-	23586

## Electronics and Communication Engineering

Year	General	SEBC	SC	ST	EWS
2022-23	12993	-	-	-	-
2023-24	27791	-	-	-	-
2024-25	32729	39848	33127	50368	37332
2025-26	22284	28333	50605	-	-

## Electrical Engineering

Year	General	SEBC	SC	ST	EWS
2022-23	23158	-	-	-	-
2023-24	28898	-	-	-	-
2024-25	50184	-	-	-	-
2025-26	50737	-	-	-	-

## Civil Engineering

Year	General	SEBC	SC	ST	EWS
2022-23	25044	-	-	-	-
2023-24	28436	-	-	-	-

2024-25	35733	50682	36354	-	50230
2025-26	25164	-	-	-	-

● **Placement Facilities :**

Placement Facilities	Campus Placements	Campus Placement in Last three Years
T&P Cell	Student Selected in Campus Interview	As Per Following Table 1

● **Placement Data :**

S r. N o	Branch	Academ ic Year	No. of the Companie s	No of Students Placed	Maximum Salary Offered	Minimum Salary Offered
1	CSE Departme nt	2023-24	15	88	4.8 LPA	1.44 LPA
		2024-25	17	69	4.8	1.44
		2025-26	26	52	4.0	2.6
2	Electrical Departme nt	2023-24	06	12	6.50	2.0
		2024-25	08	29	5.86	1.44
		2025-26	00	00	NA	NA
3	EC Departme nt	2023-24	01	01	3.80	3.80
		2024-25	01	02	3.54	3.54
		2025-26	00	00	NA	NA
4	Civil Departme nt	2023-24	03	05	6.50	2.0
		2024-25	01	02	1.80	1.80
		2025-26	00	00	NA	NA
5	Mechanical Department	2023-24	09	34	6.00	1.44
		2024-25	11	25	5.86	1.80
		2025-26	00	00	NA	NA

Name and duration of program(s) having affiliation/collaboration with Foreign University(s)/Institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration, give the following details: **NA**

- Details of the Foreign Institution/University: NA
  1. Name of the University/Institution
  2. Address
  3. Website
  4. Is the Institution/University Accredited in its Home Country.
  5. Ranking of the Institution/University in the Home Country.
  6. Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country.
  7. Nature of Collaboration
  8. Conditions of Collaboration
  9. Complete details of payment a student has to make to get the full benefit of collaboration.
- For each Collaborative/affiliated Program give the following:
  1. Program Focus
  2. Number of seats
  3. Admission Procedure
  4. Fee
  5. Placement Facility
  6. Placement Records for last three years with minimum salary, maximum salary and average salary
- Whether the Collaborative Program is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16<sup>th</sup> May, 2005

## **FACULTY**

❖ Branch wise list faculty members:

- Permanent Faculty
- Visiting Faculty
- Adjunct Faculty
- Guest Faculty
- Permanent Faculty: Student Ratio

➤ **PROFILE OF PRINCIPAL WITH QUALIFICATIONS, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED**

Name:	<b>Dr. B. J. Shah</b>	
Post:	Principal	
Date of Birth :		
Email:	<a href="mailto:principal@gecpatan.ac.in">principal@gecpatan.ac.in</a> , , gec-patan-dte@gujarat.gov.in	
Webpage:		
Educational Qualification:	<b>PH.D</b>	
Work Experience:	Teaching: 30	
	Research: 0	
	Industry: 2	
Subjects teaching at Under Graduate Level:	CIVIL STRUCTURE ENGINEERING	
Students Guide:		
Under Graduate Level	30	
Post Graduate Level:	10	
Research guidance:	3	
No. of Research papers published:	18	
Papers Published(count) - National Level:	12	
Papers Published(count) - International Level	6	
Projects Carried out:	0	
Nos. of consultancy:	0	
Patents:	0	
Technology Transfer		
No. of Books published with details:	1	

## CIVIL ENGINEERING DEPARTMENT

- Number of faculty employed and left during the last three years (2022-2023, 2023-24, 2024-2025)

YEAR	NON TEACHING (JOIN)	TEACHING (JOIN)	NON TEACHING (Left/Transferred)	TEACHING (Left/Transferred)
2022-23	0	0	0	1
2023-24	0	0	0	0
2024-25	0	1	0	1

### ❖ Permanent Faculty

Sr. No.	Name	Post	Appointment is approved by University [Letter Number]
<b>Branch: Civil Engineering</b>			
1	Dr. Neelam Dalal	Associate Professor	Letter No. CTE/CAS/ Diploma/ 2025/1/GH-15/1288 Dt. 19/05/2025
2	Prof. Vipul D. Patel	Assistant Professor	Letter No. CTE/CAS/ Degree- Diploma/ 2026/7/GH-15/21 Dt. 05/01/2026
3	Dr. Vijendrakumar M Patel	Assistant Professor	LetterNo.GEC/SI.BH./Asst. Prof./Civil/2017/GH-1/6396 Dt.23/03/2017
4	Dr. Manjurali I. Balya	Assistant Professor	Letter No. CTE/CAS/ Degree- Diploma/ 2025/2/GH-15/172 Dt. 03/01/2025
<b>Branch: Applied Mechanic (Civil Engineering)</b>			
1	Prof. Hardik R. Trivedi	Assistant Professor	Letter No. CTE/CAS/ Degree- Diploma/ 2026/7/GH-15/21 Dt. 05/01/2026
2	Dr. Jigneshkumar M Patel	Assistant Professor	Letter No. CTE/CAS/ Degree- Diploma/ 2026/7/GH-15/21 Dt. 05/01/2026

<b>1</b>	<b>Name</b>	Dr. Neelam Dalal																																				
<b>2</b>	<b>Post</b>	Associate Professor																																				
<b>3</b>	<b>Email</b>	dalal.neelam@gecpatan.ac.in																																				
<b>4</b>	<b>Date of Birth</b>																																					
<b>5</b>	<b>Educational Qualification</b>	Ph.D.																																				
<b>6</b>	<b>Webpage</b>																																					
<b>7</b>	<b>Area of Specializations</b>	Water Resources Management and Engineering																																				
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<b>9</b>	<b>Subjects teaching at UG Level</b>	Environment Science, Building Construction, Building and Town Planning, Water Resources Engineering and Hydrology																																				
<b>10</b>	<b>Subjects teaching at PG Level</b>	NMCE, WUM, WRP																																				
<b>11</b>	<b>Research Guidance(count)</b> <ul style="list-style-type: none"> <li>• <b>Ph.D. : --</b></li> <li>• <b>PG Students :13</b></li> </ul>																																					
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		2024; NeelamDalal; Patel Devyani; Mayank Singh Sakla																
4		Classification and Extraction of Wetland Features Using Geoinformatics; December 2021; Compliance Engineering; NeelamDalal, JayshreePandor, M B Dholakia, Indra Prakash																
5		"SPONGE CITY" CONCEPT TO REDUCE STORM WATER IMPACT: A CASE STUDY OF AHMEDABAD CITY; May 2021, International Journal of Advance Research and Innovative Ideas In Education; NeelamDalal, ChavdaRipal																
6		ANALYSIS OF MODE CHOICE BEHAVIOUR OF SCHOOL GOING CHILDREN IN AHMEDABAD; January 2021; Rena Shukla; Nishra Shah; NeelamDalal																
7		Geospatial Study of Contamination of Groundwater and Health Hazard Due to Solid Waste Disposal Site-Ahmedabad City; July 2020; Hetal Patel, NeelamDalal, Utkarsh Nigam																
8		Flood Inundation Mapping and Analysis Using SAR Data at Middle Reach of the Brahmaputra River; June 2018; Pinkal M Vadher, NeelamDalal																
9		"Estimation and Comparison of Evaporation Losses by different Empirical methods"; April 2018; Patel Ashishkumar, NeelamDalal																
10		Performance Assessment of Municipal Water and Sanitation Services using Pareto Analysis Technique; (Conference Paper); June 2018; National Conference on 'Transportation and Water resource Engineering" (NCTWE – 2015); Neelkanth Bhatt, NeelamDalal, Ashok T Motiani																
11		Ground Water Condition and Quality Improved by Artificial Recharge Techniques in Meghraj Taluka, Sabarkatha District, Gujarat; December 2011; 1st NATIONAL CONFERENCE ON TECHNICAL REASEARCH ADVANCES IN CIVIL ENGINEERING (TRACE-2011); Jignasa K Trivedi, NeelamDalal																
13	<b>Projects Carried out</b>	1. "Site Suitability Analysis for Storm Water Management using UAV- A Case Study of L. D. College of Engineering Campus": A Minor Research Project under Research Promotion Scheme (RPS) Sponsored by Gujarat Technological University																
14	<b>Patents : 00</b>																	
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1	Karmyogi	DTE, GANDHINAGAR	11/22/2005	11/25/2005		4												

	2	Advance Surveying Techniques	L. E. C., MORBI	3/27/2006	3/31/2006		One Week
	3	Earthquake Mitigation & Management	GIDM, GANDHINAGAR	12/11/2006	12/15/2006		One Week
	4	Highway Material and Testing	L. D. COLLEGE OF ENGG.	9/10/2007	9/14/2007		One Week
	5	Induction Training Programme for Engg. College Teachers	NITTTR, BHOPAL	1/7/2008	1/19/2008		Two Weeks
	6	Design of Port and Harbour Structures	GUJARAT MARITIME BOARD AND ADANI PMC	1/28/2008	2/1/2008		One Week
	7	Computational Fluid Dynamics & Heat Transfer	L.D.C.E., AHMEDABAD	5/5/2008	5/9/2008		One Week
	8	Advanced Soft Modeling Techniques in Watershed Management	LDRP, GANDHINAGAR	12/1/2008	12/5/2008		One Week
	9	CCC+	L.D.C.E., AHMEDABAD	1/27/2009	2/10/2009	PASS - 85%	Two Weeks
	10	Gender Issues in Disaster Management	GIDM, GANDHINAGAR	2/23/2011	2/25/2011		3
	11	Research Fair 2011	GTU, AHMEDABAD	5/13/2011	5/14/2011		2
	12	Disasters & GIS	CEPT UNIVERSITY	11/8/2011	11/12/2011		One Week
	13	Recent Trends in Transportation Engineering	L.D.C.E., AHMEDABAD	4/30/2012	5/5/2012		One Week
	14	Induction Training Programme Phase-II	NITTTR, BHOPAL	9/3/2012	9/14/2012		Two Weeks
	15	Designing Persuasion	NID, AHMEDABAD	8/28/2013	8/30/2013		3
	16	Institute	IIM,	10/28/2013	10/31/2013		4

		Management and Networking: Leadership Programme for TEQIP-II Engineering Colleges	AHMEDABAD		3		
17	ANSYS for Structural and Thermal Engineering Application	G.E.C., RAJKOT	12/30/2013	1/3/2014		One Week	
18	Karmayogi Residential Training for Quality Improvement Program in Technical Education	EDUCATION DEPT., GOVT. OF GUJARAT	3/6/2014	3/8/2014		3	
19	Managing Multiple Perspectives in Institutional Development: Programme for Engineering Colleges of Gujarat, TEQIP-II	IIM, AHMEDABAD	3/25/2014	3/27/2014		3	
20	Keep Clicking: A Workshop on Photography	NID, AHMEDABAD	5/5/2014	5/9/2014		One Week	
21	COST EFFECTIVE AND EMERGING EFFLUENT TREATMENT TECHNOLOGIES	V.V.P. ENGG. COLLEGE, RAJKOT	15-Mar-14	15-Mar-14		1	
22	ENVIRONMENT MANAGEMENT FRAMEWORK (EMF) &	SPFU, GUJARAT & DTE, GUJARAT	27-May-14	28-May-14		2	

	PROCUREMENT					
23	Application of Modeling & Computing Techniques in Engineering field	G.E.C., RAJKOT	2/2/2015	2/13/2015		Two Weeks
24	3D Printing	NID, AHMEDABAD	5/18/2015	5/22/2015		One Week
25	Advanced Modeling & Simulation Techniques using Software in Engineering field	G.E.C., RAJKOT	1/4/2016	1/14/2016		Two Weeks
26	Sustainable Development Using Green Technology	L. D. COLLEGE OF ENGG.	13-Jun-16	17-Jun-16		One Week
27	Research Methodology: Tools & Techniques	L.D.College of Engineering, Ahmedabad	11-Feb-19	16 Feb2019		One Week
28	Faculty development programme for teachers of technical courses "Beyond the Classroom Towards Excellence"	Indian Institute of Teacher Education	03 sept 2019	09 sept 2019		One Week
29	Academic and Research paper writing	NITTTR,Ahmedabad	09-03-2020	13-03-2020		One Week
30	Comprehensive Online Certificate Course on IPR	iHub, Ahmedabad	6-7-2020	14-9-2020		9 weeks
31	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content	Knowledge Consortium of Gujarat Education Department, Government of Gujarat	28/07/2020	18/08/2020		

	Development					
32	"Infrastructure Engineering"	Birla VishvakarmaMaha vidyalaya	12/10/2020	16/10/2020		One Week
33	Impactful Pedagogical Skills and Restructuring of Collaborations (LDCE 21_4)	L. D. COLLEGE OF ENGG.	17-01-2022	21-01-2022		One Week
34	Disaster Risk Reduction for Sustainable Development	Adani Institute of Infrastructure Engineering, Ahmedabad	21 March 2022	26 March 2022		One Week
35	Yoga and Positive Psychology for Managing Career and Life	MOOC/NPTEL	20-02-2023	14-04-2023		Two Weeks
36	NURTURING INNOVATION AND STARTUP ECOSYSTEM (NISE)	Gujarat Student Startup and Innovation Hub ( i - Hub )	08-09-2020	23-10-2020		6 weeks
37	STTP on GREEN BUILDING FOR SUSTAINABLE DEVELOPMENT	VGEC, CHANDKHEDA & NIIITR	29-07-2024	02-08-2024		One Week

<b>1</b>	<b>Name</b>	<b>Vipul. D. Patel</b>						
<b>2</b>	<b>Post</b>	Assistant Professor						
<b>3</b>	<b>Email</b>	vd.patel@gecpatan.ac.in						
<b>4</b>	<b>Date of Birth</b>							
<b>5</b>	<b>Educational Qualification</b>	M.E (Water Resources Engineering)						
<b>6</b>	<b>Webpage</b>	---						
<b>7</b>	<b>Area of Specializations</b>	Water Resources Engineering. (Civil Engg.)						
<b>8</b>	<b>Work Experience</b>							
	<b>Sr. No.</b>	<b>Position</b>	<b>Organization</b>	<b>Period</b>	<b>Experience</b>			
	<b>Teaching</b>							
	1	Lecturer	B. S. Patel Polytechnic	01/01/2005 to 16/05/2011	06 years, 05 Months			
	2	Assistant Professor	Government Engineering College, Patan	17/05/2011 to Till Date	14 years, 07 Months			
	3							
	<b>Research</b>							
	1	---	---	---	---			
	2	---	---	---	---			
<b>9</b>	<b>Subjects teaching at UG Level</b>		Irrigation Engineering, Professional Practices and Valuation, Building and Town Planning, Water resources Engineering and Hydrology, Basic Civil Engineering					
	<b>Subjects teaching at PG Level</b>		---					
	<b>Research Guidance(count)</b>							
	<ul style="list-style-type: none"> <li>● Ph.D.: ----</li> <li>● PG Students : -----</li> </ul>							
	<b>Papers Publications:</b>							
	<b>Sr. No.</b>	<b>Publication Details</b>						

	1	Comparison of Distribution Uniformity of Micro and Mini Sprinkler Irrigation System in National conference HYDRO-2007, held at SVNIT, Surat during 21-22 Dec 2007.
	2	Yield And Water Productivity Impact Of Pressurized Irrigation Technology On Alfalfa Crop Over Flood Irrigation" in National Conference on Infrastructure Development In Civil Engineering (IDCE-2008), at NIT Hamirpur during May 16-17 2008.
	3	Traffic Study At Rail Road Level Crossing in National Conference on Infrastructure Development In Civil Engineering (IDCE-2008), at NIT Hamirpur during May 16-17 2008.
	4	Optimization techniques in water resources management in National Conference on Infrastructure Development In Civil Engineering (IDCE-2008),at NIT Hamirpur during May 16-17 2008.
	5	Climate at Godhara, Gujarat a case study" in National Conference on GEC – 09 at NIT Hamirpur during 18-19 Sept 2009.
	6	Pre-Engineered Steel Building-A Today's Need in International Conference on "ACSGE" at BITS- Pilani, Rajasthan during 25-27 Oct 2009.
	7	Geo-Information Technology for Coastal Disaster Risk Reduction International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 4, Issue 7, July 2015.
	8	The Concept of Zero Energy Buildings (ZEB) - A Literature Study, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, September 2019   IJIRT   Volume 6 Issue 4   ISSN: 2349-6002.
	9	CATALYSTS OF CHANGE: ANALYZING POPULATION DYNAMICS AND URBAN BOOM OF “AHMEDABAD – A METROPOLITAN CITY” International Journal of Applied Engineering & Technology, Vol. 5 No.1, January, 2023, ISSN: 2633-4828.
	10	TSUNAMI EMERGENCY RESPONSE SYSTEM USING GEO-INFORMATION TECHNOLOGY ALONG THE WESTERN COAST OF INDIA , International Journal of Civil Engineering and Technology (IJCET) Volume 10, Issue 05, May 2019, pp. 418-429, Article ID: IJCET 10 05 045
	11	Enhancing Urban Mobility: Impacts of Traffic Analysis and Mitigation Strategies at Intersections- A Case Study, Nanotechnology Perceptions 20 No.6 (2024) 4784-4797, ISSN 1660-6795
<b>13</b>	<b>Projects Carried out</b>	-----
<b>14</b>	<b>Patents : 01</b>	-----
<b>15</b>	<b>No. of Books published with details</b>	
	• Book1 -----	

	<ul style="list-style-type: none"> <li>• Book2 -----</li> </ul>																																																															
16	<b>Trainings:</b>																																																															
	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Title</th> <th>Organized By</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1</td><td>Surveying using Total Station</td><td>Gandhidham Polytechnic, Tolani Foundation, Adipur</td><td>08-11-2011 to 12-11-2011</td></tr> <tr> <td>2</td><td>Highway Construction and Quality Control</td><td>B.V.M Engineering College, Vallabh Vidhyangar</td><td>13-03-2012 to 17-03-2012</td></tr> <tr> <td>3</td><td>Advances in Hydrology &amp; Water Resources Engineering</td><td>S.K. Patel College of Engineering, Visnagar</td><td>17-10-2013 to 18-10-2013</td></tr> <tr> <td>4</td><td>Computing Techniques for Solving Engineering Problems</td><td>IIT Bombay</td><td>23-12-2013 to 27-12-2013</td></tr> <tr> <td>5</td><td>Karmayogi Residential Training for Quality Improvement program in Technical Education</td><td>Swaminarayan Dham, Gandhinagar</td><td>17-1-2014 to 19-1-2014</td></tr> <tr> <td>6</td><td>Induction Training Phase-I</td><td>NITTTR Extension Centre, Ahmedabad</td><td>20-01-2014 to 31-01-2014</td></tr> <tr> <td>7</td><td>Induction Training Phase-II</td><td>NITTTR Extension Centre, Ahmedabad</td><td>15-09-2014 to 26-09-2014</td></tr> <tr> <td>8</td><td>Environmental Studies</td><td>IIT Bombay (Through ICT Mode)</td><td>02-06-2015 to 12-06-2015</td></tr> <tr> <td>9</td><td>CAD using NX</td><td>GEC, Patan</td><td>25-04-2016 to 30-04-2016</td></tr> <tr> <td>10</td><td>Floods and Disaster Management</td><td>GEC, Patan</td><td>05-08-2016</td></tr> <tr> <td>11</td><td>Recent Trends in Civil Engineering</td><td>GEC, Patan</td><td>07-09-2016 to 08-09-2016</td></tr> <tr> <td>12</td><td>River Flood Analysis and Modelling</td><td>SVNIT, Surat</td><td>19-12-2016 to 23-12-2016</td></tr> <tr> <td>13</td><td>Advances in Building Services</td><td>NITTTR Extension Centre, Ahmedabad</td><td>19-06-2017 to 23-06-2017</td></tr> <tr> <td>14</td><td>Research Methodology and Technical Communication</td><td>NITTTR Bhopal</td><td>05-03-2018 to 09-03-2018</td></tr> <tr> <td>15</td><td>Alternative Sources of Energy</td><td>NITTTR Bhopal</td><td>19-08-2019 to 23-08-2019</td></tr> </tbody> </table>	Sr. No	Title	Organized By	Duration	1	Surveying using Total Station	Gandhidham Polytechnic, Tolani Foundation, Adipur	08-11-2011 to 12-11-2011	2	Highway Construction and Quality Control	B.V.M Engineering College, Vallabh Vidhyangar	13-03-2012 to 17-03-2012	3	Advances in Hydrology & Water Resources Engineering	S.K. Patel College of Engineering, Visnagar	17-10-2013 to 18-10-2013	4	Computing Techniques for Solving Engineering Problems	IIT Bombay	23-12-2013 to 27-12-2013	5	Karmayogi Residential Training for Quality Improvement program in Technical Education	Swaminarayan Dham, Gandhinagar	17-1-2014 to 19-1-2014	6	Induction Training Phase-I	NITTTR Extension Centre, Ahmedabad	20-01-2014 to 31-01-2014	7	Induction Training Phase-II	NITTTR Extension Centre, Ahmedabad	15-09-2014 to 26-09-2014	8	Environmental Studies	IIT Bombay (Through ICT Mode)	02-06-2015 to 12-06-2015	9	CAD using NX	GEC, Patan	25-04-2016 to 30-04-2016	10	Floods and Disaster Management	GEC, Patan	05-08-2016	11	Recent Trends in Civil Engineering	GEC, Patan	07-09-2016 to 08-09-2016	12	River Flood Analysis and Modelling	SVNIT, Surat	19-12-2016 to 23-12-2016	13	Advances in Building Services	NITTTR Extension Centre, Ahmedabad	19-06-2017 to 23-06-2017	14	Research Methodology and Technical Communication	NITTTR Bhopal	05-03-2018 to 09-03-2018	15	Alternative Sources of Energy	NITTTR Bhopal
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	16	NBA Accreditation	IIT RAM, Ahmedabad	22-07-2019 to 26-07-2019	
	17	Introduction to Geographic Information Systems	Online, IIT Madras (MOOC)	27-01-2020 to 21-02-2020	
	18	Comprehensive Online Intellectual Property Rights (IPR)	Online	06-07-2020 to 14-09-2020	
	19	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning)	Online	28-07-2020 to 18-08-2020	
	20	Advanced Research Methodology & Analytics	GEC, Patan	22-03-2021 to 26-03-2021	
	21	Advances in Construction Technology and Management	Online	28-06-2021 to 02-07-2021	
	22	Geographic Information systems	Online, IIT Madras (MOOC)	18-01-2022 to 09-04-2022	
	23	Project Planning and Control	Online, (MOOC)	24-07-2023 to 15-09-2023	
	24	Remote Sensing Essentials	Online, (MOOC)	22-01-2024 to 12-04-2024	
	25	Industrial Training	USP Construction Company, Patan	17/06/2024 to 01/07/2024	
	26	Industrial Training	Rakesh Construction Company, Mehsana	15/07/2024 to 27/07/2024	
<b>17</b>	<b>Membership</b> <ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• IWRS Membership</li> </ul>				

<b>1</b>	<b>Name:</b>	<b>Dr. Vijendrakumar M. Patel</b>	
<b>2</b>	<b>Post:</b>	Assistant Professor	
<b>3</b>	<b>Date of Birth :</b>		
<b>4</b>	<b>Email:</b>	<a href="mailto:vijendrakumar.patel@gujgov.edu.in">vijendrakumar.patel@gujgov.edu.in</a> , <a href="mailto:vijpatel9736@gmail.com">vijpatel9736@gmail.com</a>	
<b>5</b>	<b>Webpage:</b>	-----	
<b>6</b>	<b>Educational Qualification:</b>	<b>Ph.D. (Civil Engineering)</b>	
<b>7</b>	<b>Work Experience:</b>	Teaching: 15 Research: 3 Industry: 1 Others: 0	
S.No.	Institute	Period	Experience
1	ISRO (SAC ,Ahmedabad)	02-08-2004 to 06-06-2005	0years ,10months
2	BSPatel Polytechnic, Ganpat University,Kherva	13-06-2005 to 01-06-2010	4years ,11months
3	PDPU (Pandit Deendayal Petroleum University ,Gandhinagar)	02-06-2010 to 06-06-2011	1years ,0months
4	Government Polytechnic, Palanpur	06-07-2011 to 17-04-2017	5years ,9months
5	Government Engineering College,Patan	18-04-2017 to continue	
<b>8</b>	<b>Area of Specializations:</b>	<b>Civil Engineering</b>	
<b>9</b>	<b>Subjects teaching at Under Graduate Level:</b>	Fluid Mechanics, Surveying, Remote Sensing & GIS, Application of GIS in Civil Engineering, Building Construction Technology, Transportation Engineering, Water Resources Management,	
<b>F</b>	<b>Post Graduate Level:</b>	-----	
<b>11</b>	<b>Research guidance:</b>	Master's Degree : 04 Ph.D.: (01 Completed ) ( 03 Pursuing)	
<b>12</b>	<b>No. of Research papers published:</b>	National Journals : 08 International Journals : 12 Conferences : 07	
	<b>Published in International Journal</b>		
	1	Emergency preparedness in the case of Makran tsunami: a case study on tsunami risk visualization for the western parts of Gujarat, India (2016). <i>Taylor &amp; Francis, Geomatics Natural Hazard and Risk, (SCI Journal Taylor &amp; Francis)</i>	

		<a href="https://doi.org/10.1080/19475705.2014.983188">https://doi.org/10.1080/19475705.2014.983188</a>
	2	Simulation of 1945 Makran Tsunami in the Arabian Sea and Tsunami Risk along Coast of Gujarat (India) International Symposium on “ <i>Advances in Earthquake Science (AES- 2013)</i> ” Institute of Seismological Research, Gandhinagar, Gujarat, India.
	3	Remote sensing techniques for land use/land cover mapping in Mahi Right Bank Canal command area, Gujarat (2015) <i>Journal of Civil Engineering and Technology</i> .
	4	Tsunami Risk 3D Visualizations of Okha Coast, Gujarat (India), <i>International Journal of Engineering Science and Innovative Technology</i> .
	5	Tsunami Evacuation Planning and Mapping along Coastal Area of Porbandar City Gujarat, India (2016) <i>International Journal of Advance Research in Engineering, Science &amp; Technology</i> .
	6	Development of Tsunami Emergency Response System Along Coastal Area of Dwarka Gujarat, India (2016) <i>International Journal of Advance Research in Engineering, Science &amp; Technology</i>
	7	Assessing the Tsunami Hazards on the Western Coast of India: A Systematic Review
	8	The Concept of Zero Energy Buildings (ZEB) - A Literature Study (2019) , <i>International Journal of Innovative Research In Technology</i> .
	9	Tsunami Emergency Response System Using Geo-Information Technology Along The Western Coast of India (2019) <i>International Journal of Civil Engineering and Technology (IJCIET)</i> .
	10	GIS Based 3D Urban Mapping of Mehsana City (2021) <i>GIS Science Journal</i> .
	11	Nested Modeling Framework for Assessing Tsunami Wave Impact on the Coastal Region of Gujarat, West Coast of India: A Hypothetical Approach (2024). <i>Nanotechnology Perceptions -Environmental Science, Geology, Geography</i> .
	12	Remote Sensing Techniques for Mapping Degraded Land (2015) <i>International Journal of Innovative Research in Science, Engineering and Technology</i> .
	13	Tsunami Early Warning System Along The Gujarat Coast, India (2015) <i>International Journal of Civil Engineering and Technology</i> .
	14	Geo-Information Technology for Coastal Disaster Risk Reduction (2015) <i>International Journal of Innovative Research in Science, Engineering and Technology</i> .
	15	Tsunami Wave Forces On Coastal Structure. <i>International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008)</i> ISBN No: 978 – 81 – 906220 – 1 – 1
	16	Remote Sensing Technique for Waterlogged and Salt Affected Area Detection. <i>International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008)</i> ISBN No: 978 – 81 – 906220 – 0 – 4
	17	Using Satellite, Aerial Imagery Generate 3D Model of Urban Buildings. <i>International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008)</i> ISBN No: 978 – 81 –

		906220 – 1 – 1
	18	Delineation Of Degraded Land Due To Waterlogging And Salinization In The MRBC Command Area, Gujarat, Using Remote Sensing Technique. 6th International R&D Conference (Sustainable Development of Water and Energy Resources-Need and Challenges, Luknow - India)
	19	Updating Land Use/Land Cover Maps Using IRS-P6/1D LISS-III Satellite Data. 6th International R&D Conference (Sustainable Development of Water and Energy Resources-Need and Challenges, Luknow - India)

<b>Published in National Journal</b>		
	1	Role of Remote Sensing & GIS Technique in Water Resources Management. <i>National Conference on Hydraulics and Water Resources (HYDRO-2007)</i> . Surat, Gujarat. ISBN No: 81 – 88901 – 32 – 6
	2	Optimization Techniques in Water Resources Management. <i>National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)</i> . NIT, Hamirpur, Himachal Pradesh. ISBN No: 978 – 81 – 906531 – 3 – 8
	3	Yield and Water Productivity Impact of Pressurized Irrigation Technology on Alfalfa Crop over Flood Irrigation Technique. <i>National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)</i> . NIT, Hamirpur, Himachal Pradesh. ISBN No: 978 – 81 – 906531 – 3 – 8
	4	Solution of Gradually Varied Flow Profile by Numerical Method. <i>National Conference on Innovations &amp; Applications of Mathematical Modeling Techniques in Engineering System</i> . ADIT, New V.V.Nagar
	5	A Review on Modeling of Tsunami Waves. <i>National Conference on Innovations &amp; Applications of Mathematical Modeling Techniques in Engineering Systems</i> . ADIT, New V.V.Nagar
	6	Reuse of Waste Water for Irrigation. <i>National Conference on Hydraulics and Water Resources (HYDRO-2007)</i> , Surat, Gujarat. ISBN No: 978 – 81 – 203 – 2230 – 1
	7	Remote Sensing - A Decision Making Tools for Civil Engineer. <i>National Conference on Civil Engineering Challenges (CEC-09)</i> . NIT, Hamirpur, Himachal Pradesh. ISBN No: 978 – 93 – 80043 – 34 – 0
	8	Tsunami Hazard from Earthquakes in the Western Indian Ocean. <i>National Conference on Civil Engineering Challenges (CEC-09)</i> . NIT, Hamirpur, Himachal Pradesh. ISBN No: 978 – 93 – 80043

<b>12</b>	Projects Carried out:	-----
<b>13</b>	Nos. of consultancy project:	-----
<b>14</b>	Patents:	-----
<b>15</b>	Technology Transfer	-----
<b>16</b>	No. of Books published with details:	-----
	Title	Publisher
		Year

<b>17</b>	Training:	
	1	MOOC Training Programme on "Remote Sensing Essentials"
	2	MOOC Training Programme on "Project Planning and Control"
	3	MOOC Training Programme on "Geographic information Systems"
	4	MOOC Training Programme on "NBA Accreditation and Teaching Learning in Engineering (NATE)"
	5	MOOC Training Programme on "Introduction to Geographic Information Systems"
	6	MOOC Training Programme on "Remote Sensing and GIS"
	7	NITTTR, Bhopal FDP Training program on "Design of Rubrics"
	8	NITTTR, Bhopal FDP Training program on "Advanced Technology in Infrastructure Developmen"
	9	NITTTR, Bhopal FDP Training program on "Governance and management of institutions"
	10	NITTTR, Bhopal FDP Training program on "Life Assessment, Repair and Restoration of Structures"
	11	NITTTR, Bhopal FDP Training program on "Advances in Concrete Technology"
	12	NITTTR, Bhopal FDP Training program on "3D Animation"
	13	ISTE FDP Training program on "MATLAB and GIS Applications"
	14	NITTTR, EX. Centre Ahmedabad FDP Training program on "Managing People and Stress at Work"
	15	NITTTR, Bhopal FDP Training program on "Application of Remote Sensing & Geographical Information System (GIS)"
	16	NITTTR, Bhopal FDP Training program on "Induction Phase - II"
	17	NITTTR, Bhopal FDP Training program on "Induction Phase - I"
	18	QIP-CDEEP Short Term Course on "Soft Computing Techniques in Water Resources Management".
	19	AICTE-ISTE sponsored STTP on "EARTHQUAKE: System, Behavior & Design".
	20	AICTE-ISTE sponsored STTP on "Approaches & Practices in Urban Transportation Planning"
	21	STTP on "Advanced Soft Modeling Techniques in Watershed Management"
	22	STTP on "Application of GIS, Remote Sensing & GPS in Civil Engineering"
	23	STTP on "Critical Issues in 21st Century for Civil Engineers"
	24	One day Workshop on "Water Resources Management Issues in Gujarat",
	25	Testing of construction materials at Gujarat Engineering Research Institute
<b>18</b>	Seminar:	
	1	

	2	
<b>19</b>	Membership:	ISTE

<b>1</b>	<b>Name</b>	<b>Dr. Manjurali I. Balya</b>							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	manjurali.balya@gecpan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	<b>Ph.D. (Civil Engineering)</b>							
<b>6</b>	<b>Webpage</b>	---							
<b>7</b>	<b>Area of Specializations</b>	Urban Transportation Planning; Traffic Engineering; Planning, design, and implementation of Public Bus Transit (BRTS) etc.							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	1	Assistant Professor	Government Engineering College, Katpur, Patan	July 2017- To Present	8 Years 6 Months				
	2	Assistant Professor	Sankalchand Patel College of Engineering, Visnagar	June 2013- July 2017	4 Years				
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1	Highway/ Traffic Engineer	SAI Consulting Engineers PVT. LTD., Ahmedabad	July 2012 to June 2013	1 years				
	2								
	<b>Others</b>								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	Railway and Airport Engineering (3170619); Infrastructure for Smart Cities (3170628); Traffic Engineering (2170613); Urban Transportation Planning(3160608); Environmental Engineering (3160611); Transportation Engineering (3150611); Civil Engineering Societal & Global Impact (3140609);Building and Town Planning (3130609); Building Construction Technology (3130607); Environmental Science (3110007)							
<b>10</b>	<b>Subjects teaching at PG Level</b>	---							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● <b>Ph.D.:01(Pursuing)</b></li> <li>● <b>PG Students :00</b></li> </ul>								

<b>12</b>	<b>Papers Publications:</b>	
	<b>Sr. No.</b>	<b>Publication Details</b>
	1	Balya M. I. et. al. (2024). Enhancing Urban Mobility: Impacts of Traffic Analysis and Mitigation Strategies at Intersections- A Case Study, Nanotechnology Perceptions, Vol. 20, No.6, pp. 4784-4797.
	2	Balya, M. I., & Kumar, R. (2019). Commuters' Attitude Analysis of Feeder Public Transit Service: A Case Study. Iranian Journal of Science and Technology, Transactions of Civil Engineering, Vol. 43, No. 1, pp 313-321.
	3	Balya, M. I., Kumar, R., & Gundaliya, P. J. (2018). Bus stop network catchment analysis of integrated feeder service for public bus transit system—a case study of Ahmedabad City. World Review of Intermodal Transportation Research, Vol. 7, No. 1, pp. 80-98.
	4	Balya, M. I., & Kumar, R. (2017). Walking Feeder Mode Services Choice Analysis for Integration of Bus Rapid Transit System: A Case Study. International Journal for Traffic and Transport Engineering, Vol. 7, No. 4, pp 487-497.
	5	Balya, M. I., & Kumar, R. (2017). Feeder mode choice analysis for public bus transit system: a case study. World Review of Intermodal Transportation Research, Vol. 6, No. 3, pp. 177-192.
	6	Balya, M. I., & Kumar, R. (2017). Proposed Integrated Bicycle Feeder Mode Service Analysis for Bus Rapid Transit System-A Multinomial Logit Model Approach. International Journal for Traffic and Transport Engineering, Vol. 7, No. 1, pp. 108-116.
	7	Balya, M. I., Katti, B. K., & Saw, K. (2016). Spatial Transit Accessibility Modeling of an Indian Metropolitan City in GIS Environment. International Journal for Traffic and Transport Engineering, Vol. 6, No. 1, pp. 51-62.
	8	Balya, M. I., & Kumar, R. (2016). Integration of Bicycle as Feeder Mode in Bus Rapid Transit System. International Journal of Intelligent Transport- Bowen Publishing House.
	9	Manjurali I. Balya, A. R. Patel, K. P. Patel, V. A. Patel , P. M. Joshi (2016). Bus Rapid Transit System (BRTS) - A Sustainable Approach- Literature Review. Global Research and Development Journal for Engineering.
	10	Manjurali I. Balya, A. R. Patel, V. A. Patel, H. M. Rajgor (2016). Analysis of Water Supply Distribution Network in Mehsana City. Global Research and Development Journal for Engineering.
<b>13</b>	<b>Projects Carried out</b>	---
<b>14</b>	<b>Patents : 01</b>	Manjurali I. Balya, "IoT Based Automatic Vehicle Accident Detection and Rescue System" (Application No.: 202541009818A), Publ. Date: 21/02/2025.
<b>15</b>	<b>No. of Books published with details</b>	
	• ---	
<b>16</b>	<b>Trainings:</b>	

	Sr. No	Title	Organized By	Duration	
	1	Traffic Engineering	NPTEL SWAYAM MOOC	20/01/2025 to 11/04/2025	
	2	Plastic Waste Management	NPTEL SWAYAM MOOC	20/01/2025 to 14/03/2025.	
	3	Urban Transportation Systems Planning	NPTEL SWAYAM MOOC	22/01/2024 to 12/04/2024.	
	4	Induction Phase-II (IP_27_1)"	NITTTR Bhopal	21/06/2021 to 02/07/2021	
	5	Faculty Development for Teachers Training program of Technical Courses	IITE Gandhinagar	14/11/2019 to 20/11/2019.	
	6	Induction Phase-I (Guj.-19)	NITTTR ext. Center Ahmedabad	07/01/2019 to 18/01/2019.	
	7	Recent Trends in Civil Engineering	Directorate Technical Education (DTE), Gandhinagar	05/02/2018 to 17/02/2018.	
	8	Geotechnical Investigations for Infrastructure Development	IITRAM), Ahmedabad	19/03/2018 to 23/03/2018.	
<b>17</b>	<b>Membership: ----</b>				

## Faculty Profile- Applied Mechanics Department

<b>1</b>	<b>Name</b>	Hardik Ratilal Trivedi				
<b>2</b>	<b>Post</b>	Assistant Professor				
<b>3</b>	<b>Email</b>	hardik.trivedi@gecpatan.ac.in				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	M.E., PhD (Pursuing)				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specializations</b>	Structural Analysis, Structural Design, Bridge Engineering				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	<b>Teaching</b>					
	1	Assistant Professor	Vishwakarma Government Engineering College, Chandkheda	25/04/2011 to 30/06/2015	04 years, 02 Months	
	2	Assistant Professor	Government Engineering College, Patan	01/07/2015 onwards	10 years, 07 Months	
	<b>Research</b>					
	1					
	2					
	<b>Industry</b>					
	1	Design Engineer	MD Construction	01/07/2002 to 30/06/2003	01 Year	
	2	Structural Design Engineer	Raghuvir Construction Co.	01/07/2003 to 31/07/2004	01 Year 01 months	
	3	Bridge Design Engineer	SAI Consulting Engineers Pvt. Ltd.	08/05/2006 to 30/04/2007	01 Year	
	4	Proprietor/ Director	Speedhart Consultancy	01/05/2007 to 24/04/2011	03 Year 11 months	
	<b>Others</b>					
	1					
	.					
<b>9</b>	<b>Subjects teaching at UG Level</b>	Mechanics of Solids, Structural Analysis-I, Structural Analysis-II, Concrete Technology, Theory of Structures, Disaster Management, Retrofitting of structures, Foundation Engineering, Design of Reinforced Concrete Structures, Design of Structures, etc.				
<b>10</b>	<b>Subjects teaching at PG</b>	N.A.				

	<b>Level</b>																					
<b>11</b>	<b>Research Guidance(count)</b>	<ul style="list-style-type: none"> <li>● Ph.D. : N.A.</li> <li>● PG Students : 02</li> </ul>																				
<b>12</b>	<b>Papers Publications:</b>	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Publication Details</th></tr> </thead> <tbody> <tr> <td>1</td><td>H.R.Trivedi - Paper published at IJBE (International Journal of Bridge Engineering) on "Segmental bridge design of prestressed box superstructure for cantilever construction", International Journal of Bridge Engineering, Vol. 2, No. 2, 2014: pp. 49-82</td></tr> <tr> <td>2</td><td>H.R.Trivedi - Paper published at International Journal of Emerging Technology and Advanced Engineering on "Development of Research in Design of Segmental Box type Superstructure in India: A REVIEW", Vol.7, Issue 10, October 2017: pp.250-252.</td></tr> <tr> <td>3</td><td>H.R.Trivedi - Paper published at International Journal for Science and Advance Research in Technology on "Optimized Arrangement of Knee Bracing in Steel Frame", Vol.4, Issue 5, May 2018: pp.1110-1112.</td></tr> <tr> <td>4</td><td>H.R.Trivedi - Paper published at International Journal for Science and Advance Research in Technology on "Comparative Study o Road Sign Gantry with Different Structural Arrangement", Vol.4, Issue 5, May 2018: pp.1037-1039.</td></tr> <tr> <td>5</td><td>H.R.Trivedi - Paper selected at International Journal for Science and Advance Research in Technology on "Conceptual Automation for 3D Modeling of Segmental Bridge Superstructure for FEM Software", Vol.4, Issue 9, September 2018: Paper ID: IJSARTV4I927715</td></tr> </tbody> </table>	Sr. No.	Publication Details	1	H.R.Trivedi - Paper published at IJBE (International Journal of Bridge Engineering) on "Segmental bridge design of prestressed box superstructure for cantilever construction", International Journal of Bridge Engineering, Vol. 2, No. 2, 2014: pp. 49-82	2	H.R.Trivedi - Paper published at International Journal of Emerging Technology and Advanced Engineering on "Development of Research in Design of Segmental Box type Superstructure in India: A REVIEW", Vol.7, Issue 10, October 2017: pp.250-252.	3	H.R.Trivedi - Paper published at International Journal for Science and Advance Research in Technology on "Optimized Arrangement of Knee Bracing in Steel Frame", Vol.4, Issue 5, May 2018: pp.1110-1112.	4	H.R.Trivedi - Paper published at International Journal for Science and Advance Research in Technology on "Comparative Study o Road Sign Gantry with Different Structural Arrangement", Vol.4, Issue 5, May 2018: pp.1037-1039.	5	H.R.Trivedi - Paper selected at International Journal for Science and Advance Research in Technology on "Conceptual Automation for 3D Modeling of Segmental Bridge Superstructure for FEM Software", Vol.4, Issue 9, September 2018: Paper ID: IJSARTV4I927715								
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<b>14</b>	<b>Patents : 00</b>																					
<b>15</b>	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>● Nil</li> </ul>																				
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		Analysis for Business Research Using Statistical Packages”		
5	Short course on Geotechnical Investigation for structural engineering	IIT-Gandhinagar	15/10/2015 to 17/10/2015	
6	STTP on “Advance Engineering optimization through intelligence Techniques”	NIT- Surat SVNIT	21/03/2016 to 25/03/2016	
7	STTP on “CAD using NX”	GEC-Patan	25/04/2016 to 30/04/2016	
8	STTP on "Disaster Management"	ISTE center at ahmedabad	19/12/2016 to 30/12/2016	
9	STTP on "LaTex for Academic Writting"	GEC-Patan	20/03/2017 to 24/03/2017	
10	STTP (NITTTR) on “Computer Aided Design of Civil Engineering Structures” (Prog.No.Guj4)	NITTTR Ext. Center, Ahmedabad	26/06/2017 to 30/06/2017	
11	Workshop on Seismic Isolation in association with SEWC & Japanese Society of Seismic Isolation.	LDCE, Ahmedabad	02/11/2017 to 03/11/2017	
12	IP-1 (Guj-11) "Induction Phase - 1 " at NITTTR-Ahd	NITTTR Ext. Center, Ahmedabad	16/07/2018 to 27/07/2018	
13	"Structural Design using STAAD Pro, STRUDS, ETAB, SAFE" (CE-8)	NITTTR, Bhopal	03/09/2018 to 07/09/2018	
14	IP-2 (Guj-8) "Induction Phase - 2 " at NITTTR-Ahd	NITTTR, Bhopal	19/08/2019 to 30/08/2019	
15	Comprehensive Online Intellectual Property Rights	i-hub	06/07/2020 to 14/07/2020	
16	Unlimited Digital Advanced Yearlong Academic Method of Learning	KCG, Ahmedabad	28/07/2020 to 18/08/2020	

	17	Introduction to Soft Computing	NPTEL	18/01/2021 to 12/03/2021	
	18	STTP on Advanced Research Methodology & Analytics (ARMA-2021)	GEC-Patan	22/03/2021 to 26/03/2021	
	19	National Level Workshop on Artificial Intelligence	Pantech e Learning	30/04/2021 to 01/05/2021	
	20	STTP on Novel Advances in Ingredients of Sustainable Construction Materials (NAISCM-2021)	GEC-Patan	01/06/2021 to 05/06/2021	
	21	Six Days Workshop on “Revit & Staad Pro Softwares”	SAICAD center, Patan	14/02/2022 to 19/02/2022	
	22	2 Week Industrial Training at USP Construction Co., Patan.	USP Construction Co., Patan.	01/07/2024 to 14/07/2024	
	23	2 Week Industrial Training at Kalthia Engineering and Construction Ltd., Ahmedabad.	Kalthia Engineering and Construction Ltd., Ahmedabad.	15/07/2024 to 27/07/2024	
	24	Recent Development in Design, Material and Construction Practices in Civil Engineering	SSEC- Bhavangar	18/08/2025 to 22/08/2025	
<b>17</b>	<b>Membership</b>				
	<ul style="list-style-type: none"> <li>● ACCE(I) Membership - Association of Consulting Civil Engineers (India)</li> </ul>				

<b>1</b>	<b>Name</b>	Dr. Jigneshkumar M. Patel									
<b>2</b>	<b>Post</b>	Assistant Professor									
<b>3</b>	<b>Email</b>	jignesh.patel@gecpatan.ac.in									
<b>4</b>	<b>Date of Birth</b>										
<b>5</b>	<b>Educational Qualification</b>	PhD									
<b>6</b>	<b>Webpage</b>	---									
<b>7</b>	<b>Area of Specializations</b>	characterization and production of different types of special concrete									
<b>8</b>	<b>Work Experience</b>										
	Sr. No.	Position	Organization	Period	Experience						
	<b>Teaching</b>										
1	Site Engineer	Savvy Infra. Pvt. Ltd., Ahmedabad	2009-2010	00 years, 08 Months							
2	Assistant Professor	U.V.Patel College of Engineering, Mehsana	2012-2013	00 years, 07 Months							
3	Assistant Professor	Gujarat Power Engineering & Research Institute, Mehsana	2014-2016	01 years, 11 Months							
4	Assistant Professor	Government Engineering College, Patan	2016 onwards	09 years, 11 Months							
	<b>Research</b>										
1	--	--	--	--							
2	--	--	--	--							
	<b>Industry</b>										
1	--	--	--	--							
2	--	--	--	--							
	<b>Others</b>										
1	--	--	--	--							
2	--	--	--	--							
<b>9</b>	<b>Subjects teaching at UG Level</b>	Concrete Technology, Mechanics of Solids, Basic Structural Analysis, Geotechnical Engineering, Disaster Management, Integrated Personality Development Course etc.									
<b>10</b>	<b>Subjects teaching at PG Level</b>	NIL									
<b>11</b>	<b>Research Guidance(count)</b>										
	<ul style="list-style-type: none"> <li>● <b>Ph.D.:</b> NIL</li> <li>● <b>PG Students :</b> NIL</li> </ul>										
<b>12</b>	<b>Papers Publications:</b>										

	<b>Sr. No.</b>	<b>Publication Details</b>					
	1	kumar Patel, Jignesh, Hemant Patil, Yogesh Patil, and Gaurang Vesmawala. "Production and performance of alkali-activated cold-bonded lightweight aggregate in concrete." Journal of Building Engineering 20 (2018): 616-623.					
	2	Patel, Jignesh, Hemant Patil, Yogesh Patil, and Gaurang Vesmawala. "Strength and transport properties of concrete with styrene butadiene rubber latex modified lightweight aggregate." Construction and Building Materials 195 (2019): 459-467.					
<b>13</b>	<b>Projects Carried out</b>	NIL					
<b>14</b>	<b>Patents : 01</b>	NIL					
<b>15</b>	<b>No. of Books published with details</b> ● NIL						
<b>16</b>	<b>Trainings:</b>						
	<b>Sr. No</b>	<b>Title</b>	<b>Organized By</b>	<b>Duration</b>			
	1	Induction Training Programme Phase - I	NITTTR, Bhopal, MP	30-07-2018 TO 13-08-2018			
	2	Emerging Trends in Structural & Geotechnical Engineering	DTE, Gujarat	27-08-2018 TO 08-09-2018			
	3	Induction Training Phase - II	NITTTR, Ahmedabad	25-02-2019 TO 01-03-2019			
	4	Entrepreneurship Development	GKS & EDII, Education Department	02-03-2020 TO 06-03-2020			
	5	Statistical tools in Science and Engineering Research with Applications	NITTTR, Bhopal, MP	24/02/2020 TO 17-04-2020			
	6	Introduction to Research (Online MOOC Training)	NPTEL (Swayam) & IIT, Madras	28/07/2020 TO 18/08/2020			
	7	E-Content Development Course	KCG, Ahmedabad & HRDC (GU)	07-06-2020 TO 14/09/2020			
	8	Comprehensive Online Intellectual Property Rights (IPR)	I-HUB, Ahmedabad, Gujarat	09-08-2020 TO 23/10/2020			
	9	Nurturing Innovation And Startup Ecosystem (NISE)	I-HUB, Ahmedabad, Gujarat	13-06-2022 TO 24-06-2022			
	10	Use of ICT in Institution (Online Training)	NITTTR, Bhopal, MP	24-07-2023 TO 14-10-2023			
	11	Admixtures and Special Concretes (Online MOOC Training)	NPTEL (Swayam) & IIT, Madras	17-06-2024 TO 30-06-2024			
	12	Industrial training	DTE, Gandhinagar	15-07-2024 TO 27-07-2024			
	13	Industrial training	DTE,	30-07-2018 TO 13-08-			

			Gandhinagar	2018	
	14	Maintenance and Repair of Concrete Structures	NPTEL (Swayam) & IIT, Madras	20-01-2025 to 11-04-2025	
<b>17</b>	<b>Membership</b>				
	• ISTE Membership				

## FACULTY : COMPUTER SCIENCE AND ENGINEERING

- Number of faculty employed and left during the last three years (2022-2023, 2023-24, 2024- 2025)

YEAR	NON TEACHING (JOIN)	TEACHING (JOIN)	NON TEACHING (Left/Transferred)	TEACHING (Left/Transferred)
2022-23	0	1	0	1
2023-24	0	0	0	0
2024-25	0	2	0	1

### ❖ Permanent Faculty

Sr. No.	Name	Post	Appointment is approved by University [Letter Number]
<b>Branch: Computer Science and Engineering</b>			
1	Dr. Pratik Barot	Associate Professor	Letter No. CTE/CAS/ Diploma/ 2025/1/GH-15/1288 Dt. 19/05/2025
2	Dr. Sunil A Patel	Associate Professor	Letter No. CTE/CAS/ Degree- Diploma/ 2026/7/GH-15/21 Dt. 05/01/2026
3	Prof. Harshad Chaudhary	Assistant Professor	LetterNo.:GEC/SAHA PRA/COMPENGG/2016/GH- 2/25972 Dt. 17/09/2016
4	Prof. Adesh Panchal	Assistant Professor	LetterNo.:GEC/SAHA PRA/COMPENGG/2016/GH- 2/25972 Dt. 17/09/2016
5	Prof. Pinesh Darji	Assistant Professor	LetterNo.:GEC/SAHA PRA/COMPENGG/2016/GH- 2/25972 Dt. 17/09/2016
6	Prof. Bhavesh Patel	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
7	Prof. Mitul Patel	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020

8	Dr. Krunal Suthar	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
9	Prof. Yogesh Patel	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
10	Prof. Jay Patel	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
11	Prof. Divyeshkumar Bavisa	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
12	Prof. Mehulkumar Vasava	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
13	Prof. Sachin Makwana	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
14	Prof. Haresh Chande	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
15	Prof. Hiralben Rathod	Assistant Professor	LetterNo:Gec/nimnuk/sahayak pryadhyapak computer/2020/gh- 2/4262 Dt. 04/06/2020
16	Prof. Viral Pansiniya	Assistant Professor	LetterNo:DTE/GEC/SAHA.PRA.C OMPUTER/SI.BH.PR.YA./2021/G H-2/12015 DT. 16/12/2021

<b>1</b>	<b>Name</b>	Pratikkumar A Barot							
<b>2</b>	<b>Post</b>	Associate Professor							
<b>3</b>	<b>Email</b>	Pratik.barot@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	PhD							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Machine Learning, NLP							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	3	Assistant Professor	Government engineering college, Patan	2011-2015	03 years, 05 Months				
	4	Assistant Professor	Government engineering college, Gandhinagar	2015-2025	9 year and 9 month				
	5	Associate Professor	Government Engineering College, Patan	25/04/2025 onwards					
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1	Jr. Software Engineer	Vamendu InfoTech	2005-2006	09 Months				
	2	DBA	SoluSoft Technologies Pvt. Ltd	2006-2011	4 years, 03 Months				
	<b>Others</b>								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	Data Mining, Design and Analysis of Algorithm, Machine Learning, DBMS							
<b>10</b>	<b>Subjects teaching at PG Level</b>	Machine Learning, Advance Machine Learning							
<b>11</b>	<b>Research Guidance(count)</b>								
	● Ph.D. : 05(Pursuing)								

	<ul style="list-style-type: none"> <li>● PG Students : 08</li> </ul>																								
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Stimulating Neurons with another Activation Function	International Conference on Trends in Electronics and Informatics, ICOEI2020 , page-38-41, IEEE																								
Mgini – Improved Decision Tree using Minority Class Sensitive Splitting Criterion for Imbalanced Data of Covid-19	Journal of Information Science and Engineering, 2021 impact factor 0.44																								
ImbTree: Minority Class Sensitive Weighted Decision Tree for Classification of Unbalanced Data	International Journal of Intelligent Systems and Applications in Engineering impact factor 1.173																								
MiNB: Minority Sensitive Naïve Bayesian Algorithm for Multi-Class Classification of Unbalanced Data	Journal : The International Arab Journal of Information Technology, Vol. 19, No. 4 impact factor 0.967																								
13	<b>Projects Carried out</b>																								
14	<b>Patents : 01</b>																								
15	<b>No. of Books published with details</b>																								
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Sr. No	Title	Organized By	Duration																						
1	Industral Training	TatvaSoft, Ahmedabad	2 week																						

	2	Industral Training	Kalptaru Project International Limited, Gandhinagar	2 week	
	3	Intellectual Property	organized by NPTEL and conducted by IIT Madras	2 week	
	4	Generative AI	Gujrat Ext Center NITTTR Bhopal	1 week	
	5	AI model Deployment, Multi-agent systems, and enterprise application	GTU R&D Cell Ahmedabad	3 days	
<b>17</b>	<b>Membership</b> Member, Alumni Association of L. D. College of Engineering (LAA), Ahmedabad				

<b>1</b>	<b>Name</b>	Sunil A. Patel							
<b>2</b>	<b>Post</b>	Associate Professor							
<b>3</b>	<b>Email</b>	sunil.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	PhD							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Machine Learning, Image Processing							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer	B. S. Patel Polytechnic	20/04/2006 to 19/05/2011	05 years, 01 Months					
2	Assistant Professor	Government Engineering College, Patan	20/05/2011 to 25/08/2021	10 years, 03 Months					
3	Assistant Professor	L. D. College of Engineering, Ahmedabad	26/08/2021 to 24/04/2025	03 years, 08 Months					
4	Associate Professor	Government Engineering College, Patan	25/04/2025 onwards						
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Data Structure, Design and Analysis of Algorithm, Theory of Computation, Machine Learning							
<b>10</b>	<b>Subjects teaching at PG Level</b>	Machine Learning							
<b>11</b>	<b>Research Guidance(count)</b>								
	● Ph.D. : 01(Pursuing)								

	<ul style="list-style-type: none"> <li><b>PG Students : 03</b></li> </ul>																				
<b>12</b>	<p><b>Papers Publications:</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Publication Details</th></tr> </thead> <tbody> <tr> <td>1</td><td>Connectionist Temporal Classification Model for Dynamic Hand Gesture Recognition using RGB and Optical Flow Data, Sunil A. Patel and Ramji M. Makwana, The International Arab Journal of Information Technology, Volume 17, Issue 4, Pages 497–506</td></tr> <tr> <td>2</td><td>Developing Smart Devices with Automated Machine Learning Approach: A Review, Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 826–831, ISSN 2214-7853</td></tr> <tr> <td>3</td><td>Plant Pathology Detection for Massive Heterogeneous Data Using Deep Learning, Avinash Chaudhari, Kuntesh Jani, Sunil Patel, 2023 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT)</td></tr> <tr> <td>4</td><td>Evaluation of Performance Measures for Reliable and Secure Phishing Detection System, Pratikkumar A. Barot, Sunil A. Patel, H. B. Jethva, 2023, Reliability: Theory &amp; Applications</td></tr> <tr> <td>5</td><td>Threshold Public Key-Sharing Technique in Blockchain, Artificial Intelligence, Blockchain, Computing and Security, Volume 1, 2023</td></tr> <tr> <td>6</td><td>Parallel Custom Deep Learning Model for Classification of Plant Leaf Disease Using Fusion of Features, Sunil A. Patel, Pratik A. Barot, International Journal of Intelligent Engineering &amp; Systems</td></tr> <tr> <td>7</td><td>Dynamic Defense Model against Eclipse Attacks in Proof-of-Work Blockchain Systems, Procedia Computer Science, 2024</td></tr> </tbody> </table>	Sr. No.	Publication Details	1	Connectionist Temporal Classification Model for Dynamic Hand Gesture Recognition using RGB and Optical Flow Data, Sunil A. Patel and Ramji M. Makwana, The International Arab Journal of Information Technology, Volume 17, Issue 4, Pages 497–506	2	Developing Smart Devices with Automated Machine Learning Approach: A Review, Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 826–831, ISSN 2214-7853	3	Plant Pathology Detection for Massive Heterogeneous Data Using Deep Learning, Avinash Chaudhari, Kuntesh Jani, Sunil Patel, 2023 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	4	Evaluation of Performance Measures for Reliable and Secure Phishing Detection System, Pratikkumar A. Barot, Sunil A. Patel, H. B. Jethva, 2023, Reliability: Theory & Applications	5	Threshold Public Key-Sharing Technique in Blockchain, Artificial Intelligence, Blockchain, Computing and Security, Volume 1, 2023	6	Parallel Custom Deep Learning Model for Classification of Plant Leaf Disease Using Fusion of Features, Sunil A. Patel, Pratik A. Barot, International Journal of Intelligent Engineering & Systems	7	Dynamic Defense Model against Eclipse Attacks in Proof-of-Work Blockchain Systems, Procedia Computer Science, 2024				
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3																					
4																					

**17**

**Membership**

- ISTE Membership
- Membership 2

<b>1</b>	<b>Name</b>	Harshad L Chaudhary									
<b>2</b>	<b>Post</b>	Assistant Professor									
<b>3</b>	<b>Email</b>	<a href="mailto:Harshad.chaudhary@gecpatan.ac.in">Harshad.chaudhary@gecpatan.ac.in</a>									
<b>4</b>	<b>Date of Birth</b>										
<b>5</b>	<b>Educational Qualification</b>	M.Tech									
<b>6</b>	<b>Webpage</b>										
<b>7</b>	<b>Area of Specializations</b>	NLP, Machine Learning,									
<b>8</b>	<b>Work Experience</b>										
	Sr. No.	Position	Organization	Period	Experience						
	<b>Teaching</b>										
1	Lecturer	L.C.I.T- Bhandu	01/08/2010 to 30/06/2011	0 years, 11 Months							
2	Assistant Professor	Gujarat Power Engineering And Research Institute	01/06/2013 to 13/10/2016	3 years, 04 Months							
3	Assistant Professor	Government Engineering College, Patan	14/10/2016 to Onwards	09 years, 03 Months							
	<b>Research</b>										
1											
2											
	<b>Industry</b>										
1											
2											
	<b>Others</b>										
1											
2											
<b>9</b>	<b>Subjects teaching at UG Level</b>	Data Structure, Design and Analysis of Algorithm, Theory of Computation, Machine Learning									
<b>10</b>	<b>Subjects teaching at PG Level</b>	NLP, Machine Learning									
<b>11</b>	<b>Research Guidance(count)</b>										
	● PG Students : 00										
<b>12</b>	<b>Papers Publications:</b>										
	Sr. No.	<b>Publication Details</b>									
1		ML4Beats: A Hypertuning-Based Approach Towards Enhancement in Accuracy of Heart Disease Prediction Using Machine Learning IJISAE, 2024, 12(23s), 3429–3434									

	2	Augmented and virtual reality based segmentation algorithm for human pose detection in wearable cameras. <i>Measurement: Sensors 36 (2024) 1014024</i>																					
	3	The role of physics engines in CGI: ai-powered realism in animation. ISSN (Online): 2582-7472, June 2024 5(6), 1419–1425																					
	4	AI-BASED prediction of cultural heritage artifact deterioration due to weather conditions in india. ISSN (Online): 2582-7472, April 2024 5(4), 1618–1622																					
<b>13</b>	<b>Projects Carried out</b>																						
<b>14</b>	<b>Patents : 01</b>		Machine learning based system for emotion recognitions.																				
<b>15</b>	<b>No. of Books published with details</b>																						
	<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>																						
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<b>17</b>	<b>Membership</b>																						
	<ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• </li> </ul>																						

<b>1</b>	<b>Name</b>	Adesh V Panchal									
<b>2</b>	<b>Post</b>	Assistant Professor									
<b>3</b>	<b>Email</b>	Adesh.panchal@gecpatan.ac.in									
<b>4</b>	<b>Date of Birth</b>										
<b>5</b>	<b>Educational Qualification</b>	M.tech									
<b>6</b>	<b>Webpage</b>										
<b>7</b>	<b>Area of Specializations</b>	Machine Learning, Image Processing									
<b>8</b>	<b>Work Experience</b>										
	Sr. No.	Position	Organization	Period	Experience						
	<b>Teaching</b>										
1	Assistant Professor	Government Engineering College, Patan	1/10/2016 onwards	9 years 2 months							
2											
3											
4											
	<b>Research</b>										
1											
2											
	<b>Industry</b>										
1											
2											
	<b>Others</b>										
1											
2											
<b>9</b>	<b>Subjects teaching at UG Level</b>	Software Engineering, Computer Network Security, Design And Analysis Of Algorithm									
<b>10</b>	<b>Subjects teaching at PG Level</b>	NA									
<b>11</b>	<b>Research Guidance(count)</b>										
	<ul style="list-style-type: none"> <li>● Ph.D. : NA</li> <li>● PG Students : NA</li> </ul>										
<b>12</b>	<b>Papers Publications:</b>										
	Sr. No.	<b>Publication Details</b>									
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	2										

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<b>15</b>	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>																					
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3																							
4																							
<b>17</b>	<b>Membership</b>	<ul style="list-style-type: none"> <li>• ISTE Membership</li> </ul>																					

<b>1</b>	<b>Name</b>	PINESH ARVINDBHAI DARJI									
<b>2</b>	<b>Post</b>	Assistant Professor									
<b>3</b>	<b>Email</b>	Pinesh.darji@gecpatan.ac.in									
<b>4</b>	<b>Date of Birth</b>										
<b>5</b>	<b>Educational Qualification</b>	M.E. (CSE)									
<b>6</b>	<b>Webpage</b>										
<b>7</b>	<b>Area of Specializations</b>	Computer Networks, Cloud Computing									
<b>8</b>	<b>Work Experience</b>										
	Sr. No.	Position	Organization	Period	Experience						
	<b>Teaching</b>										
	1	Assistant Professor	Parul Institute of Engineering and Technology	15/06/2012 to 31/12/2012	00 years, 07 Months						
	2	Assistant Professor	U. V. Patel College of Engineering	01/01/2013 to 21/09/2016	03 years, 09 Months						
	3	Assistant Professor	Government Engineering College, Patan	22/09/2016 onwards							
	<b>Research</b>										
	1										
	2										
	<b>Industry</b>										
	1										
	2										
	<b>Others</b>										
	1										
	2										
<b>9</b>	<b>Subjects teaching at UG Level</b>	Computer Networks, Cloud Computing, OOP, Distributed Systems, C language									
<b>10</b>	<b>Subjects teaching at PG Level</b>	NIL									
<b>11</b>	<b>Research Guidance(count)</b>										
	<ul style="list-style-type: none"> <li>● Ph.D. : NIL</li> <li>● PG Students : NIL</li> </ul>										
<b>12</b>	<b>Papers Publications:</b>										
	Sr. No.	<b>Publication Details</b>									
	1	Feature extraction with capsule network for the COVID-19 disease									

		prediction though X-ray images, E-ISSN : 2214-7853			
	2	Leveraging Random Forest For Nutritional Analysis And Prediction, E-ISSN : 2320 –7876			
	3	Machine Learning Applications in E-commerce Using Recommendation Algorithms, E-ISSN : 2320 –7876			
	4	Deep learning model for smart wearables device to detect human health conduction, E-ISSN : 2665-9174			
	5				
	6				
	7				
13	<b>Projects Carried out</b>				
14	<b>Patents : 01</b>	AN IMAGE PROCESSING AND DEEP LEARNING BASED SYSTEM FOR ADVERTISEMENT			
15	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>• Book1 : NIL</li> </ul>			
16	<b>Trainings:</b>				
	Sr. No	Title	Organized By	From	To
	1	LaTex for Academic Writing	Government Engineering College, Patan	20/03/2017	24/03/2017
	2	i-FDP -International Faculty Development Program	Government Engineering College, Patan & Mahatma Mandir	10-03-2017, 14-03-2017, 27-03-2017	10-03-2017, 14-03-2017, 27-03-2017
	3	Recent Trends in Computer and Information Technology	Directorate Of Technical Education, Gandhinagar	02/04/2018	12/04/2018
	4	Induction Programme Phase-I	NITTTR Regional Center, Ahmedabad	30/7/2018	10/08/2018
	5	Android Programming	LDCE, Ahmedabad	11/03/2019	15/03/2019
	6	Big Data and IoT : Data Analytics,Security & Privacy	SVNIT, Surat	24/06/2019	28/06/2019
	7	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	i-HUB, Online	06/07/2020	14/09/2020
	8	UDAYAM E-Content Development	KCG, Ahmedabad and HRDC, Gujarat University, Online	28/07/2020	18/08/2020
	9	Induction Programme Phase-II	NITTTR Bhopal	21/06/2021	02/07/2021
	10	Data Analytics and Applications	LDCE, Ahmedabad	19/02/2024	01/03/2024
	11	Industrial Training	TatvaSoft	15/07/2024	26/07/2027
	12	Industrial Training	SAHANA Systems	7/29/2024	8/9/2024

			Ltd		
13	Advances in AI/ML/IOT for Engineering Applications	NITTTR Regional Center, Ahmedabad	8/9/2025	12/9/2025	
17	<b>Membership</b> <ul style="list-style-type: none"> <li>• ISTE Membership</li> </ul>				

<b>1</b>	<b>Name</b>	Bhaveshkumar Prahladbhai Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	bhavesh.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>	20/11/1982							
<b>5</b>	<b>Educational Qualification</b>	M. Tech.							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Data ,Data Security							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer/ Assistant Professor	U.V. Patel College of Engineering	21/08/2006 to 11/09/2017	11years, 1 Months					
2	Lecturer	R C Technical institute	12/09/2017 to 29/06/2020	2 years,9 Months					
3	Assistant Professor	Government Engineering College, Patan	30/06/2020 to till the date	5 years, 08 Months					
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Digital Forensics, Data Mining, Digital Fundamentals, Computer Architecture etc.							
<b>10</b>	<b>Subjects teaching at PG Level</b>								
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D.:0</li> <li>● PG Students :00</li> </ul>								
<b>12</b>	<b>Papers Publications:</b>								

	<b>Sr. No.</b>	<b>Publication Details</b>																			
	1	Bee vs Wasp Classification Using Advanced Deep Learning Techniques: CNN, VGG 16 ,2024																			
	2	An Efficient Global Optimization-Based Grey Wolf Optimization Algorithm for Fast Convergence to Various Optimization Functions,2024																			
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	4																				
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4																					
<b>17</b>	<b>Membership</b>																				
	• <b>NIL</b>																				

<b>1</b>	<b>Name</b>	PATEL MITUL JAYANTIBHAI																																																																																					
<b>2</b>	<b>Post</b>	Assistant Professor																																																																																					
<b>3</b>	<b>Email</b>	mitul.patel@gecpatan.ac.in																																																																																					
<b>4</b>	<b>Date of Birth</b>																																																																																						
<b>5</b>	<b>Educational Qualification</b>	Master of Engineering																																																																																					
<b>6</b>	<b>Webpage</b>																																																																																						
<b>7</b>	<b>Area of Specializations</b>	Algorithm, Compiler Design																																																																																					
<b>8</b>	<b>Work Experience</b>																																																																																						
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<b>15</b>	<b>No. of Books published with details</b>																							
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<b>17</b>	<b>Membership</b>																							
	<ul style="list-style-type: none"> <li>●</li> </ul>																							

<b>1</b>	<b>Name</b>	Krunal C. Suthar							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	Krunal.suthar@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	PhD							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Machine Learning, Cloud Computing							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	System Officer	High of Gujarat	29/11/2019 to 11/06/2020	06 Months					
2	Assistant Professor	Government Engineering College, Patan	12/06/2020 onwards						
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Database management system, Python for data science, Web programming, Artificial Intelligence							
<b>10</b>	<b>Subjects teaching at PG Level</b>								
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D. :</li> <li>● PG Students :</li> </ul>								
<b>12</b>	<b>Papers Publications:</b>								
	Sr. No.	<b>Publication Details</b>							
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2		A Novel Architecture for Privacy Preserving Using obfuscated Attribute In e Health Cloud							

<b>13</b>	<b>Projects Carried out</b>																							
<b>14</b>	<b>Patents: 01</b>	DCN NETWORKS FOR SEGMENTING THE CLINICAL TARGETS FROM BIO MEDICAL BASED CLINICAL IMAGES																						
<b>15</b>	<b>No. of Books published with details</b>																							
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<b>1</b>	<b>Name</b>	Yogeshkumar B. Patel																																																																				
<b>2</b>	<b>Post</b>	Assistant Professor																																																																				
<b>3</b>	<b>Email</b>	Yogesh.patel@gecpatan.ac.in																																																																				
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<b>9</b>	<b>Subjects teaching at UG Level</b>	Advanced Java Programming, Data Structures, Programming for Problem Solving, Indian Constitution																																																																				
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<b>16</b>	<b>Trainings:</b>			
Sr. No	Title	Organized By	Duration	
1	Induction Phase-1	NITTTR Bhopal	12-06-2023 to 23-06-2023	
2	Industrial Training	“Bharat Horns” Mehsana Dairy and Food products Limited (MDFL)	01/07/2024 to 12/07/2024	
3				
4				
<b>17</b>	<b>Membership</b>	<ul style="list-style-type: none"> <li>• Member, Alumni Association of L. D. College of Engineering (LAA), Ahmedabad</li> </ul>		

<b>1</b>	<b>Name</b>	Jay P. Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	jay.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	ME							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	OOP, Cloud Computing							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Assistant Professor	Government Engineering College – Patan		06/08/2020 to till date	05 years, 08 Months				
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Programming for problem solving, OOP1, Software Engineering, Web Programming							
<b>10</b>	<b>Subjects teaching at PG Level</b>	-							
<b>11</b>	<b>Research Guidance(count)</b>								
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<b>17</b>	<b>Membership:</b>																					

<b>1</b>	<b>Name</b>	Divyeshkumar Umeshbhai Bavisa																																																														
<b>2</b>	<b>Post</b>	Assistant Professor																																																														
<b>3</b>	<b>Email</b>	divyesh.bavisa@gecpatan.ac.in																																																														
<b>4</b>	<b>Date of Birth</b>																																																															
<b>5</b>	<b>Educational Qualification</b>	M.Tech																																																														
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		ISSN 1112-5209	
	2	<p>Unveiling Dropout Patterns: A Python-Powered Analysis of Student Attrition in School Education            Haresh Dhanji Chande, Sachinkumar Harshadbhai Makwana,, Jay Prakashbhai Patel, Divyeshkumar Umeshbhai Bavisa, Abhishek H. Mehta., Krish K. Patel, Jainish J. Patel, Hitexa H. Patel, J. Electrical Systems 20-10s (2024):4033-4045            ISSN 1112-5209</p>	
	3	<p>Significant Role of AI For Robust Decision –Making in Business Management [1-4]            Mehul Vasava, Adesh Panchal, Divyesh Bavisa,Jay Patel, Parth Dave IPE Journal Management            ISSN 2249-9040 Volume 14, No 27, July-December 2024</p>	
<b>13</b>	<b>Projects Carried out</b>	<b>00</b>	
<b>14</b>	<b>Patents : 00</b>		
<b>15</b>	<b>No. of Books published with details-00</b>		
<b>16</b>	<b>Trainings:</b>		
Sr. No	Title	Organized By	Duration
1	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub ( i Hub )	06/07/2020 to 14/09/2020
2	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning)	Knowledge Consortium of Gujarat	28/07/2020 to 18/08/2020
3	INDUCTION PROGRAMME PHASE-I	NITTTR	23/08/2021 To 03/09/2022
4	58th Faculty Development Program on Design Engineering (Level 1)	GTU IDEA_LAB, Gujarat Technological University Nr.Vishwakarma Government Engineering College Nr. Visat Three Roads, Visat Gandhinagar Highway Chandkheda, Ahmedabad – 382424 - Gujarat	24/04/2023 To 29/04/2023
5	Introduction to Programming in C	NPPTEL	23/01/2023 To 17/03/2023
6	Industrial Training-[ERP AND NETWORKING SYSTEM]	MEHSANA DAIRY AND FOODS PRODUCTS LTD, Survey No. 423, At : Aloda, Near Chhatiyarda Railway Cross, Aloda,	15/07/2024 To 26/07/2024

			Mehsana - 384205. Gujarat		
<b>17</b>	<b>Membership</b>				

<b>1</b>	<b>Name</b>	Vasava Mehulkumar Jaykishanbhai	 <small>Jaydeep studio valla</small>		
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	mehul.vasava@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	ME IT, PhD (pursuing)			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Java, IoT, Data Structures, DBMS			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
1	Assistant Professor	Government Engineering College, Patan	08/06/2020 to Present	05 years, 07 Months	
	<b>Research</b>				
1					
2					
	<b>Industry</b>				
1					
2					
	<b>Others</b>				
1					
2					
<b>9</b>	<b>Subjects teaching at UG Level</b>	Programming for Problem Solving, Database Management System, Object Oriented Programming-1, Data Mining, Big Data Analytics, Operating Systems, Software Engineering, Computer Networks			
<b>10</b>	<b>Subjects teaching at PG Level</b>	NA			
<b>11</b>	<b>Research Guidance(count) : NA</b>				
<b>12</b>	<b>Papers Publications:</b>				
	Sr. No.	<b>Publication Details</b>			
	1	FEDERATED LEARNING IN ARTIFICIAL INTELLIGENCE: A PRIVACY-PRESERVING APPROACH FOR DISTRIBUTED MACHINE LEARNING SYSTEMS, Mehul J Vasava, Vrunda Gamit, Adesh V Panchal, Mihir M Patel, Hemangini Gohil, ShodhKosh: Journal of Visual and Performing Arts, Vol. 5 No. 5 (2024): Volume 5 Issue 5 May Part 2- 2024			
	2	AI-Powered Environmental Surveillance: Enhancing Air and Water Quality Monitoring through Real-Time Predictive Analytics, Vrunda Gamit, Mehul J Vasava, Avani S Patel, ShodhKosh: Journal of Visual and Performing Arts, Vol. 5 No. 6 (2024): Volume 5 Issue 6 June Part 2- 2024			

	3	Optimizing Breast Cancer Diagnosis with Machine Learning Algorithms, Sachinkumar Harshadbhai Makwana, Haresh Dhanji Chande, Jay Prakashbhai Patel, Mehulkumar Jaykishanbhai Vasava, Divyeshkumar Umeshbhai Bavisa, Viral Balvantray Pansiniya, Journal of Electrical Systems (JES), J. Electrical Systems 20-10s (2024):4046-4054		
	4	Significant Role of AI For Robust Decision –Making in Business Management [1-4], Mehl Vasava, Adesh Panchal, Divyesh Bavisa,Jay Patel, Parth Dave IPE Journal Management ISSN 2249-9040 Volume 14, No 27, July-December 2024		
<b>13</b>	<b>Projects Carried out</b>		Nil	
<b>14</b>	<b>Patents :</b>		Nil	
<b>15</b>	<b>No. of Books published with details</b>			
<b>16</b>	<b>Trainings:</b>			
	Sr. No	Title	Organized By	Duration
	1	"COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)"	Gujarat Student Startup and Innovation Hub ( i - Hub )	July 6, 2020 to September 14, 2020
	2	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning)	Knowledge Consortium of Gujarat Education Department, Government of Gujarat	28/07/2020 to 18/08/2020
	3	Induction Phase-1	NITTTR Bhopal - Online	02/08/2021 to 13/08/2021
	4	Induction Phase-2	NITTTR Bhopal - Online	27/06/2022 to 08/07/2022
	5	Introduction to Programming in C	NPTEL Swayam	23/01/2023 To 17/03/2023
	6	Industrial Training - [ERP AND NETWORKING SYSTEM]	MEHSANA DAIRY AND FOODS PRODUCTS LTD, Survey No. 423, At : Aloda, Near Chhatthiyarda Railway Cross, Aloda, Mehsana - 384205. Gujarat	15/07/2024 To 26/07/2024
	7	Intellectual Property	NPTEL Swayam	Jan-Apr, 2025
	8	The Joy of Computing using Python	NPTEL Swayam	Jul-Oct, 2025
<b>17</b>	<b>Membership : Nil</b>			



<b>1</b>	<b>Name</b>	Sachinkumar Harshadbhai Makwana																																																																										
<b>2</b>	<b>Post</b>	Assistant Professor																																																																										
<b>3</b>	<b>Email</b>	sachin.makwana@gecpanan.ac.in																																																																										
<b>4</b>	<b>Date of Birth</b>																																																																											
<b>5</b>	<b>Educational Qualification</b>	M.E. (CSE)																																																																										
<b>6</b>	<b>Webpage</b>																																																																											
<b>7</b>	<b>Area of Specializations</b>	Machine Learning																																																																										
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<b>9</b>	<b>Subjects teaching at UG Level</b>	<ol style="list-style-type: none"> <li>1. Data Mining and Business Intelligence</li> <li>2. Professional Ethics</li> <li>3. Data Mining</li> <li>4. Programming for Problem Solving</li> <li>5. Database Management System</li> <li>6. Computer Organization and Architecture</li> <li>7. Data Analysis and Visualization</li> <li>8. Compiler Design</li> <li>9. Analysis and Design of Algorithms</li> <li>10. Digital Forensics.</li> </ol>																																																																										
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<b>13</b>	<b>Projects Carried out</b>																	
<b>14</b>	<b>Patents :</b>																	
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<b>16</b>	<b>Trainings:</b>	<table border="1"> <thead> <tr> <th>Sr. No</th><th>Title</th><th>Organized By</th><th>Duration</th></tr> </thead> <tbody> <tr> <td>1</td><td>Comprehensive Online Intellectual Property Rights (IPR)</td><td>Education Department</td><td>06-07-2020 to 14-09-2020</td></tr> <tr> <td>2</td><td>UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) – E-Content Development Course</td><td>KCG Education Department</td><td>28-07-2020 to 18-08-2020</td></tr> <tr> <td>3</td><td>Blockchain</td><td>AICTE Training and Learning (ATAL) Academy (Online FDP)</td><td>19-10-2020 to 23-10-2020</td></tr> </tbody> </table>	Sr. No	Title	Organized By	Duration	1	Comprehensive Online Intellectual Property Rights (IPR)	Education Department	06-07-2020 to 14-09-2020	2	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) – E-Content Development Course	KCG Education Department	28-07-2020 to 18-08-2020	3	Blockchain	AICTE Training and Learning (ATAL) Academy (Online FDP)	19-10-2020 to 23-10-2020
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3	Blockchain	AICTE Training and Learning (ATAL) Academy (Online FDP)	19-10-2020 to 23-10-2020															

	4	Induction Programme Phase – I	NITTTR Bhopal (Online)	05-07-2021 to 16-09-2021	
	5	Induction Programme Phase – II	NITTTR Bhopal (Online)	27-06-2022 to 08-07-2022	
	6	Introduction to Programming in C	Swayam, NPTEL – IIT Kanpur	23-01-2023 to 17-03-2023	
	7	Introduction to Machine Learning	Swayam, NPTEL – IIT Kharagpur	24-07-2023 to 15-09-2023	
	8	Introduction to Internet of Things	Swayam, NPTEL – IIT Kharagpur	22-01-2024 to 12-04-2024	
	9	Industrial Training	TatvaSoft, Tatva House, Behind Rajpath Club, Bodakdev, Ahmedabad – 380054	01-07-2024 to 12-07-2024	
	9	Artificial Intelligence in IoT and Aerial Robotics	K. D. Polytechnic, Patan	16-12-2024 to 21-12-2024	

**17**

**Membership**

- ISTE Membership

<b>1</b>	<b>Name</b>	Haresh D. Chande							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	haresh.chande@gecpanan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	ME – Computer Engineering PhD - Pursuing							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Machine Learning, Image Processing							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer	Parul Polytechnic Institute, Vaghodia	05/09/2013 to 20/05/2014	8 months 15 days					
2	Assistant Professor	HJD Institute, Kutch	01/07/2014 to 05/06/2020	5 years 11 months 4 days					
3	Assistant Professor	Government Engineering College, Patan	08/06/2020 onwards	5 years 7 months 20 days					
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Computer Networks, Artificial Intelligence, Operating System, Web Programming							
<b>10</b>	<b>Subjects teaching at PG Level</b>	Advance Algorithms							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D. :</li> <li>● PG Students : 10</li> </ul>								
<b>12</b>	<b>Papers Publications:</b>								
	Sr. No.	<b>Publication Details</b>							
	1	“Illumination Invariant Face Recognition System “, Haresh Chande, Zankhna Shah, , International Journal of Computer Science and Information Technologies (IJCSIT), Vol. 3(3), 4010-4014, ISSN No. 0975-9646, May- 2012.							
	2	“A Study Paper on Outlier Detection on Time Series Data”, Dipannita							

		Kar, Haresh Chande, Rajendra Gaikwad, International Journal of Creative Research Thoughts (IJCRT) Volume 5, ISSN: 2320-2882, December-2017		
	3	“Twitter Based Sentiment Analysis of Russia-Ukraine War Using Machine Learning”, Vaghela, Dineshkumar Bhagwandas; Makwana, Sachinkumar H; Chande, Haresh D; Mehta, Priyam. Journal of Electrical Systems; Paris Vol. 20, Iss. 10s, (2024): 1269-1283.		
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	6	“Deep learning model for smart wearables device to detect human health conduction”, Yashwantbhai, R.H. and Chande, H.D. and Makwana, S.H. and Prajapati, P. and Gondalia, A. and Darji, P.A., Measurement: Sensors,volume.36, 2024, 101401, ISSN 2665-9174.		
<b>13</b>	<b>Projects Carried out</b>			
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	Sr. No	Title	Organized By	Duration
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	2	INDUCTION PROGRAMME PHASE - II	NITTTR Bhopal	27-06-2022 to 08-07-2022
	3	Introduction to Programming in C	Swayam, NPTEL IIT kanpur	23-01-2023 to 17-03-2023
	4	Introduction to Machine Learning - IITKGP	Swayam, NPTEL IIT Kharagpur	24-07-2023 to 15-09-2023
	5	Introduction to Internet Of Things	Swayam, NPTEL IIT Kharagpur	22-01-2024 to 12-04-2024
	6	Industrial Training at Tatvasoft	TatvaSoft, Tatva House, Behind Rajpath Club, Bodakdev, Ahmedabad - 380054	01-07-2024 to 12-07-2024
	7	Artificial Intelligence in IoT and Aerial Robotics	KILACHAND DEVCHAND POLYTECHNIC, Patan	16/12/2024 to 21/12/2024

<b>17</b>	<b>Membership</b> <ul style="list-style-type: none"><li>● Life Time member of Indian Society for Technical Education (ISTE).</li></ul>

<b>1</b>	<b>Name</b>	Rathod Hiral			
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	hiral.rathod@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	M.Tech.CSE			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Information Security			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
	2	Assistant Professor	Saffrony Institute of Engineering College	01/04/2011 to 31/08/2015	4 years, 4 month
	3	Assistant Professor	Apollo Institute of Engineering, Ahmedabad	01/03/2017 to 05/06/2020	03 years, 3 months
	4	Assistant Professor	Government Engineering College, Patan	06/06/2020 onwards	
	<b>Research</b>				
	1				
	2				
	<b>Industry</b>				
	1				
	2				
	<b>Others</b>				
	1				
	2				
<b>9</b>	<b>Subjects teaching at UG Level</b>	Data Structure, Design and Analysis of Algorithm, Operating system			
<b>10</b>	<b>Subjects teaching at PG Level</b>				
<b>11</b>	<b>Research Guidance(count)</b>				
	<ul style="list-style-type: none"> <li>● Ph.D. :</li> <li>● PG Students :</li> </ul>				
<b>12</b>	<b>Papers Publications:</b>				
	Sr. No.	<b>Publication Details</b>			

	1	Deep learning model for smart wearables device to detect human health conduction Volume 36, December 2024, 101401 Measurement: Sensors		
	2	Cotton leaf analysis based early plant disease detection using Machine Learning , Journal of Integrated SCIENCE& TECHNOLOGY, Vol. 13 No. 1 (2025)		
<b>13</b>	<b>Projects Carried out</b>			
<b>14</b>	<b>Patents :</b> <b>0</b>			
<b>15</b>	<b>No. of Books published with details:0</b>			
<b>16</b>	<b>Trainings:</b>			
	Sr. No	Title	Organized By	Duration
	1	Induction Phase-1	NITTTR. Online	23/08/2021 to 03/09/2021
	2	Data Anyalits and Applications	NITTTR EXT-Ahmedabad Organized By L.D.Engg.College	19/02/2024 to 01/03/2024
	3			
	4			
<b>17</b>	<b>Membership</b>			
	• ISTE Membership			

<b>1</b>	<b>Name</b>	Viral B Pansiniya																																																														
<b>2</b>	<b>Post</b>	Assistant Professor																																																														
<b>3</b>	<b>Email</b>	viral.pansiniya@gecpanatan.ac.in																																																														
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<b>5</b>	<b>Educational Qualification</b>	M.E in Computer Engg.																																																														
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2																																																																
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<b>10</b>	<b>Subjects teaching at PG Level</b>																																																															
<b>11</b>	<b>Research Guidance(count)</b> <ul style="list-style-type: none"> <li>● Ph.D. : Nill</li> <li>● PG Students : Nill</li> </ul>																																																															
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		Chaumwal <sup>3</sup> , Mr. Viral Pansiniya <sup>4</sup> , Mr. Veer Sudheer Goud <sup>5</sup> . AI-Guided Environmental Risk Assessment: Linking Pollutant Exposure to Human Health Outcomes.” European Journal of Clinical Pharmacy. 2025;7(1):232-240.		
<b>13</b>	<b>Projects Carried out</b>			
<b>14</b>	<b>Patents :</b>			
<b>15</b>	<b>No. of Books published with details</b>			
<b>16</b>	<b>Trainings:</b>			
	Sr. No	Title	Organized By	Duration
	1	Induction Program Phase-I	Gujarat Extension Centre, NITTTRB, Ahmedabad	27/10/2025 to 07/11/2025
	2			
	3			
	4			
<b>17</b>	<b>Membership</b>			
		• ISTE Membership		

## FACULTY : ELECTRICAL ENGINEERING

❖ Branch wise list faculty members:

YEAR	NON TEACHING (JOIN)	TEACHING (JOIN)	NON TEACHING (Left/Transferred)	TEACHING (Left/Transferred)
2022-23	0	0	0	0
2023-24	0	0	0	0
2024-25	0	1	0	0

## Permanent Faculty

Sr. No.	Name	Post	Appointment is approved by university[Letter Number]
1	Prof.G.A.Patel	Asso.Professor	જીએસી/સી-બ.વ્યા. ૧૦૮૮ ધ- ૨/૩ ૨૩૭૨/તા.ક-૭-૧૯૯૮
2	Dr.V.K.Prajapati	Asso.Professor	જીએસી/નિમણૂક/વ્યા.વિધુત ઇજ./૨૦૧૦/ધ- ૨/૧૨૭૫૦/તા. ૧૨/૦૩/૨૦૧૦
3	Prof.N.K.Dabhi	Assistant Professor	REGULAR GEC/1099/GH-2/63989
4	Prof.H.D.Patel	Assistant Professor	LetterNo.GEC/Vidyut/2014/GH- 2/12603/Dt.17/06/2014
5	Prof. S.G.Prajapati	Assistant Professor	LetterNo.GEC/LECT- ELECT/2011/GH-2/3797 Dt. 3/2/2011
6	Prof.M.D.Patel	Assistant Professor	LetterNo.GEC/APPOINTMENT/ AASISTANT PROFESSOR ELECTRICAL/2011/GH-1/11977 Dt:-18-04-2011
7	Prof.A.N.Patel	Assistant Professor	LetterNo.GEC/APPOINTMENT/ AASISTANT PROFESSOR ELECTRICAL/2011/GH-1/11977 Dt:-18-04-2011
8	Dr.P.D.Patel	Assistant Professor	LetterNo. GEC/appoint/AP Elect./2012/Gh-2/3153, 3/2/2012

<b>1</b>	<b>Name</b>	Gunvant A Patel							
<b>2</b>	<b>Post</b>	Associate Professor							
<b>3</b>	<b>Email</b>	gunvant.patel@gecpanan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.E.Electrical							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Automation & control							
<b>8</b>	<b>Work Experience</b>								
	<b>Sr. No.</b>	<b>Position</b>	<b>Organization</b>	<b>Period</b>	<b>Experience</b>				
	<b>Teaching</b>								
1	Lecturer	Government Polytechnic, Palanpur	29/01/1994 to 05/05/1997	03 years, 04 Months					
2	Lecturer	Government Engineering College, Bhuj	01/08/1998 to 05/11/2004	06 years, 04 Months					
3	Lecturer	L. D. College of Engineering, Ahmedabad	14/08/2007 to 02/03/2009	01 years, 06 Months					
4	Associate Professor	Vishwakarma Government Engineering College, Chandkheda	03/03/2009 to 27/05/2015	06 years, 02 Months					
5	Associate Professor	Government Engineering College, Surat	28/05/2015 to 11/07/2017	02 years, 02 Months					
6	Associate Professor	Government Engineering College, Patan	12/07/2017 to cont.	08 years, 06Months					
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Electrical Machines, power System Protection, Electrical Materials, Electrical Machine Design							
<b>10</b>	<b>Subjects teaching at PG Level</b>								
<b>11</b>	<b>Research Guidance(count)</b>								
	● Ph.D.:PG Students :								
<b>12</b>	<b>Papers Publications:</b>								
	<b>Sr. No.</b>	<b>Publication Details</b>							
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	2								

		3																						
		4																						
		5																						
		6																						
		7																						
<b>1 3</b>	<b>Projects Carried out</b>																							
<b>1 4</b>	<b>Patents : 01</b>	Design : FUEL LEVEL MEASURING DEVICE																						
<b>1 5</b>	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>• Book1 Electrical Machines</li> <li>• Book2 Elements of Electrical Engineering</li> </ul>																						
<b>1 6</b>	<b>Trainings:</b>	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Title</th> <th>Organized By</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Comprehencive online Intellectual Property Rights</td> <td>SSIP Hub ( i- hub) Gujarat</td> <td>6 July to 14 September 2020</td> </tr> <tr> <td>2</td> <td>Unlimited Digital Advanced Yearlong Academic Method of Learning (UDAYAM )</td> <td>Online KCG, Ahmedabad</td> <td>28 July to 18 August 2020</td> </tr> <tr> <td>3</td> <td>Assessment and Utilisation of Renewable Energy Sources</td> <td>GEC, Palanpur</td> <td>13 -17 September 2021</td> </tr> <tr> <td>4</td> <td>Recent Advancement in Power System with Renewable Energy Sources</td> <td>On lineFDP by ATAL AICTE</td> <td>17 - 21 January 2022</td> </tr> </tbody> </table>			Sr. No	Title	Organized By	Duration	1	Comprehencive online Intellectual Property Rights	SSIP Hub ( i- hub) Gujarat	6 July to 14 September 2020	2	Unlimited Digital Advanced Yearlong Academic Method of Learning (UDAYAM )	Online KCG, Ahmedabad	28 July to 18 August 2020	3	Assessment and Utilisation of Renewable Energy Sources	GEC, Palanpur	13 -17 September 2021	4	Recent Advancement in Power System with Renewable Energy Sources	On lineFDP by ATAL AICTE	17 - 21 January 2022
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<b>1 7</b>	<b>Membership</b>	<ul style="list-style-type: none"> <li>• ISTE Membership</li> </ul>																						

<b>1</b>	<b>Name</b>	Vijaykumar Kanaiyalal Prajapati	 <small>Scanned by CamScanner</small>		
<b>2</b>	<b>Post</b>	Associate Professor			
<b>3</b>	<b>Email Id:</b>	vkp.gec@gmail.com			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	Ph.D. (Electrical Engineering)			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Power System			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
	1				
	<b>Industry</b>				
	1				
	2				
	<b>Others</b>				
	1				
	2				
<b>9</b>	<b>Subjects teaching at UG Level</b>				
<b>1</b>	<b>Subjects teaching at PG Level</b>				
<b>0</b>					
<b>1</b>	<b>Research Guidance(count)</b>				
<b>1</b>	● Ph.D.:PG Students :				
<b>1</b>	<b>Projects Carried out</b>				
<b>3</b>					
<b>1</b>	<b>Patents : 01</b>				
<b>4</b>					
<b>1</b>	<b>No. of Books published with details</b>				
<b>5</b>					
<b>1</b>	<b>Trainings:</b>				
<b>6</b>	Sr. No	Title	Organized By	Duration	
<b>1</b>					
<b>7</b>	<b>Membership</b>				

<b>1</b>	<b>Name</b>	NARAN KALYANJI DABHI				
<b>2</b>	<b>Post</b>	ASSISTANT PROF. , ELECTRICAL ENGG.				
<b>3</b>	<b>Email</b>	<a href="mailto:naran.dabhi@gecpan.ac.in">naran.dabhi@gecpan.ac.in</a>				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	M.E.ELECTRICAL				
<b>6</b>	<b>Webpage</b>	<a href="https://gecpan.ac.in/Department/DepartmentDetails/3">https://gecpan.ac.in/Department/DepartmentDetails/3</a>				
<b>7</b>	<b>Area of Specialization</b>	POWER SYSTEM				
<b>8</b>	<b>Work Experience</b>					
Sr. No.	Position	Organization	Period	Experience		
<b>Teaching</b>						
1	Lecturer	GOVT.ENGG.COLLEGE BHUJ	27-12-1999 to 31-08-2005	4.8 YEARS		
2	Lecturer	GOVT.ENGG.COLLEGE RAJKOT	01-09-2005 to 18-07-2007	1.8 YEARS		
3	Assistant Professor	L.E.COLLEGE MORBI	19-07-2007 to 04-09-2019	12.2 YEARS		
4	Assistant Professor	Government Engineering College, Patan	05-09-2019 to Present	6.4 YEARS		
<b>Research</b>						
1	--	--	--	--		
<b>Industry</b>						
1	MAINT. ENGINEER	RAJMOTI DEV. RPL CONT.JAMNAGAR	4/1/1997 To 5/1/1998			
<b>Others</b>						
1	Lecturer	GOVT.POLY. JAMNAGAR	6/1/1998 To 5/1/1999			
2	Jr.Er.	GUJARAT ELETRICITY BOARD, MANDAVI DIV.	6/1/1999 To 12/13/1999			
<b>9</b>	<b>Subjects</b>	Switch Gear and Protection, Signal and System, Electromagnetic Field.				

	<b><i>teaching at UG Level</i></b>	Basic Electrical Engineering...etc																
<b>10</b>	<b><i>Subjects teaching at PG Level</i></b>	n.a.																
<b>11</b>	<b>Research Guidance(count)</b>	<ul style="list-style-type: none"> <li>●</li> </ul>																
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<b>14</b>	<b>Patents : 01</b>	n.a.																
<b>15</b>	No. of Books published with detail: N.A.																	
<b>16</b>	<b>Trainings:</b>																	
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3	Smart Energy System	IIT RAM, Online	04-10-2021 to 08-10-2021															
<b>1</b> <b>7</b>	<b>Membership</b>																	
	<ul style="list-style-type: none"> <li>● ISTE Membership: INDIAN SOCIETY FOR TECHNICAL EDUCATION ( ISTE ) LIFE MEMBER: LM 75010</li> </ul>																	

1	<b>Name</b>	HarshadkumarDahyalal Patel							
2	<b>Post</b>	Assistant Professor							
3	<b>Email</b>	harshad.patel@gecpanan.ac.in							
4	<b>Date of Birth</b>								
5	<b>Educational Qualification</b>	PhD Pursuing							
6	<b>Webpage</b>	NA							
7	<b>Area of Specializations</b>	Power system,Renewable Energy							
8	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Assistant Professor	L. D. College of Engineering, Ahmedabad	04-10-1996to 14-05-2007	10 years, 09 Months					
2	Assistant Professor	Government Engineering College, Modasa	15-05-2007to 31-01-2011	03 years, 0Months					
3	Assistant Professor	L. D. College of Engineering, Ahmedabad	01-02-2011to 30-06-2015	03 years, 08 Months					
4	Assistant Professor	Government Engineering College, Patan	01-07-2015 onwards						
	<b>Research</b>								
1	--	--	--	--					
	<b>Industry</b>								
1	--	--	--	--					
	<b>Others</b>								
1	--	--	--	--					
9	<b>Subjects teaching at UG Level</b>	EMMI,HVE,EHV,BEE,Electrical Machine ,Power system							
10	<b>Subjects teaching at PG Level</b>	Renewable energy, Hybrid vehicles, Power quality, Distributed generation							
11	<b>Research Guidance</b>	<ul style="list-style-type: none"> <li>PG Students :05</li> </ul>							
12	<b>Papers Publications:</b>	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Details of Papers</th></tr> </thead> <tbody> <tr> <td>1</td><td>Real time pricing based on Unscheduled Interchange(UI) mechanism at UVPC Ganpat University Year 2009 during M.E. Dissertation from BVM</td></tr> </tbody> </table>				Sr. No.	Details of Papers	1	Real time pricing based on Unscheduled Interchange(UI) mechanism at UVPC Ganpat University Year 2009 during M.E. Dissertation from BVM
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		College of Engineering, V.V. Nagar.	
2		Availability base tariff (ABT)/Dynamic pricing for power system Year 2012.	
3		Pricing strategy for station availability at V.V.P. Engineering College, Rajkot Year 2013.	
4		Dynamic pricing methodology Journal paper Global Research Analysis Volume 2 Year 2013.	
5		Optimal location of DG in existing system distribution network published in Journal IJAIR Volume 2 Year 2013.	
6		Fuzzy logic based speed controller for vector controlled Induction Motor published in Journal IJSRD Volume 3 Year 2014.	
7		SIMULATION AND ANALYSIS FOR POWER MANAGEMENT OF GRID CONNECTED PHOTO VOLTAIC AND FUEL CELL BASE HYBRID POWER SYSTEM Published in JETIR ISSN UGC Approved.	
8		A Review On Integrated Renewable Energy System Based Power Generation For Off Grid Rural Area. Multidisciplinary International Conference (GTUICON-2019), Gujarat Technological University, Ahmedabad.	
9		Integrated Renewable Energy System For Off-Grid Remote Rural Area Using Homer. International Conference on Challenges and Applications in Clean Energy (ICCACE-2020), National Institute of Technology, Kurukshetra.	
10		Modern Era Of Sustainable Development For Remote Rural Area With Implementing Integrated Renewable Energy System. International Multidisciplinary Conference (IMEC 2022), Sankalchand Patel University, Visnagar, Gujarat.	
11		Optimum Sizing and Analytical Designing of Integrated Renewable Energy System for the remote isolated off-grid network. International Conference on Emerging Technologies in Engineering and Science (ICETES-2023), Kanchikacherla, Andhra Pradesh, India.	
13	Projects Carried out		
14	Patents :		
15	No. of Books published with details		
16	Trainings:		
Sr. No	Title	Organized By	Duration
1	MATLAB for Electrical Engineering	LDCE Ahmedabad	18-07-2005 To 22-07-2005
2	Modern trends in electrical power system operation and control	LDRP Gandhinagar	05-01-2009 To 10-01-2009
3	Recent trends on power system operation, control and protection	VGEC Ahmedabad	25-05-2009 To 30-05-2009
4	Induction Training program Phase-I	NITTTR Bhopal	16-08-2011 To 26-08-2011
5	Induction Training program Phase-II	NITTTR Bhopal	03-09-2012 To 14-09-2012
6	STTP On Entrepreneurship	EDI Ahmedabad	18-11-2013 To 03-

		Development		12-2013	
7	Modelling and Analysis of Electrical System	LDCE Ahmedabad	12-05-2014 To 16-05-2014		
8	CAD, Advance Simulation and Manufacturing Using NX Software	LDCE Ahmedabad	25-05-2015 To 06-06-2015		
9	Circuit design and smart grid	LDCE Ahmedabad	08-06-2015 To 12-06-2015		
10	PLC and Process Instrumentation	LDCE Ahmedabad	15-06-2015 To 19-06-2015		
11	Electro Mechanical design of SHP	IIT Roorkee	16-11-2015 To 20-11-2015		
12	Performance testing and evaluation of SHP	IIT Roorkee	14-12-2015 To 18-12-2015		
13	SHP Development	IIT Roorkee	15-02-2016 To 19-02-2016		
14	Summer school (Speech modelling)	DAIICT Gandhinagar	04-07-2016 To 08-07-2016		
15	STTP On Operation and Maintenance of SHP Station	IIT Roorkee	19-09-2016 To 22-09-2016		
16	STTP On Wind Power Technology	NITTTR Bhopal	21-11-2016 To 03-12-2016		
17	Electric and Smart Vehicle	LDCE Ahmedabad	11-03-2019 To 15-03-2019		
18	NBA for degree and diploma engineering colleges	IITRAM Ahmedabad	09-09-2019 To 13-09-2019		
19	ATAL FDP Smart Energy System	IITRAM Ahmedabad	04-10-2021 To 08-10-2021		
20	ATAL FDP Electric Vehicles (EV) Technologies	GEC Bhuj	28-06-2021 To 02-07-2021		
21	Role of AI in Modern Power System Protection	LDCE Ahmedabad	16-10-2023 To 21-10-2023		
22	ATAL FDP Recent Advancement in Power System with RE Sources	GEC Patan	17-01-2022 To 21-01-2022		
23	Intellectual Property Rights	KCG Ahmedabad	06-07-2020 To 14-07-2020		
24	e-content development under UDAYAM project	CTE Gandhinagar	28-07-2020 To 08-08-2020		
25	ATAL FDP Distributed Energy System Modelling and Control	GEC Bharuch	21-06-2021 To 25-06-2021		
26	ATAL FDP Role of Renewable Energy Sources in Power System	GEC Patan	05-07-2021 To 09-07-2021		
27	ATAL FDP Assessment and Evaluation of Renewable Energy Resources	GEC Palanpur	13-09-2021 To 17-09-2021		
28	Futuristic Innovations on Solar Technologies	GEC Patan	08-02-2021 To 12-02-2021		

	29	Industrial Training at Australian Premium Solar (India) Limited Company	Tajpur, Prantij, Gujarat	17-06-2024 To 29-06-2024	
	30	Industrial Training at GETCO Baroda-Mahesana Division	Mahesana, Gujarat	08-07-2024 To 20-07-2024	
<b>17</b>	<b>Membership</b>				
		•			

<b>1</b>	<b>Name</b>	Sohankumar G. Prajapati			
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	sgp.gec@gmail.com			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	PhD			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Renewable energy			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
	1	Lecturer	SSPC Polytechnic	06/12/2004 to 14/02/2011	06 years, 02 Months
	2	Assistant Professor	Government Engineering College, Palanpur	15/02/2011 to 30/06/2015	4 years, 06 Months
	3	Assistant Professor	Government Engineering College, Patan	01/07/2015Onward	10 years, 07 Months
	<b>Research</b>				
	1				
	2				
	<b>Industry</b>				
	1				
	2				
	<b>Others</b>				
	1				
	2				
<b>9</b>	<b>Subjects teaching at UG Level</b>	Basic Electrical Engineering, wind and solar energy, Electric and hybrid vehicles			
<b>10</b>	<b>Subjects teaching at PG Level</b>	--			



<b>11</b>	<b>Research Guidance(count)</b>															
<b>12</b>	<b>Papers Publications:</b> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Publication Details</th> </tr> </thead> <tbody> <tr> <td>1</td><td>An Experimental Study to Evolutes Performance of PV Module at Workplace. In: Thakkar, F., Saha, G., Shahnaz, C., Hu, YC. (eds) Proceedings of the International e-Conference on Intelligent Systems and Signal Processing. Advances in Intelligent Systems and Computing, vol 1370. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-2123-9_32">https://doi.org/10.1007/978-981-16-2123-9_32</a></td></tr> <tr> <td>2</td><td>Energy Management of Grid Connected Renewable Sources with Energy Storage Unit for an EV Charging Station. In: Mahajan, V., Chowdhury, A., Padhy, N.P., Lezama, F. (eds) Sustainable Technology and Advanced Computing in Electrical Engineering . Lecture Notes in Electrical Engineering, vol 939. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-4364-5_66">https://doi.org/10.1007/978-981-19-4364-5_66</a></td></tr> <tr> <td>3</td><td>"Solar, Wind and Battery Storage Energy Management and Control for Electric Car Charging Load." In International Conference on science, Engineering and Technology (ICSET 2022), no. icset, pp. 489-501. 2022.</td></tr> <tr> <td>4</td><td>"Energy Management of Renewable Energy Sources with the Local Grid for EV Charging Stand," 2023 IEEE 11th Region 10 Humanitarian Technology Conference (R10-HTC), Rajkot, India, 2023, pp. 928-933, doi: 10.1109/R10-HTC57504.2023.10461851.</td></tr> <tr> <td>5</td><td>Management and optimization of Grid-tied Renewable Energy for EV Charging Station. Transdisciplinary Journal of Engineering &amp; Science, 14. <a href="https://doi.org/10.22545/2023/00236">https://doi.org/10.22545/2023/00236</a></td></tr> <tr> <td>6</td><td>A real-time energy flow management of a grid-connected renewable energy sources-based EV charging station. International Journal of Ambient Energy, 45(1). <a href="https://doi.org/10.1080/01430750.2024.2306209">https://doi.org/10.1080/01430750.2024.2306209</a></td></tr> </tbody> </table>		Sr. No.	Publication Details	1	An Experimental Study to Evolutes Performance of PV Module at Workplace. In: Thakkar, F., Saha, G., Shahnaz, C., Hu, YC. (eds) Proceedings of the International e-Conference on Intelligent Systems and Signal Processing. Advances in Intelligent Systems and Computing, vol 1370. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-2123-9_32">https://doi.org/10.1007/978-981-16-2123-9_32</a>	2	Energy Management of Grid Connected Renewable Sources with Energy Storage Unit for an EV Charging Station. In: Mahajan, V., Chowdhury, A., Padhy, N.P., Lezama, F. (eds) Sustainable Technology and Advanced Computing in Electrical Engineering . Lecture Notes in Electrical Engineering, vol 939. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-4364-5_66">https://doi.org/10.1007/978-981-19-4364-5_66</a>	3	"Solar, Wind and Battery Storage Energy Management and Control for Electric Car Charging Load." In International Conference on science, Engineering and Technology (ICSET 2022), no. icset, pp. 489-501. 2022.	4	"Energy Management of Renewable Energy Sources with the Local Grid for EV Charging Stand," 2023 IEEE 11th Region 10 Humanitarian Technology Conference (R10-HTC), Rajkot, India, 2023, pp. 928-933, doi: 10.1109/R10-HTC57504.2023.10461851.	5	Management and optimization of Grid-tied Renewable Energy for EV Charging Station. Transdisciplinary Journal of Engineering & Science, 14. <a href="https://doi.org/10.22545/2023/00236">https://doi.org/10.22545/2023/00236</a>	6	A real-time energy flow management of a grid-connected renewable energy sources-based EV charging station. International Journal of Ambient Energy, 45(1). <a href="https://doi.org/10.1080/01430750.2024.2306209">https://doi.org/10.1080/01430750.2024.2306209</a>
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<b>13</b>	<b>Projects Carried out</b>															
<b>14</b>	<b>Patents : 01</b>	AN INTERNET OF THINGS BASED BATTERY LIFE ESTIMATION SYSTEM FOR ELECTRIC VEHICLE														
<b>15</b>	<b>No. of Books published with details</b> <ul style="list-style-type: none"> <li>• Book-1 Elements of Electrical Engineering</li> <li>• Book-2 Basic Electrical Engineering</li> </ul>															
<b>16</b>	<b>No. of Expert Lecture Delivered: 40</b>															

17

**Trainings:**

Sr. No	Title	Organized By	Duration
1	Induction Training Programme-Phase-I	NITTTR-Ahmedabad	14/11/2011 TO 25/11/2011
2	Induction Training Programme-Phase-II	NITTTR-K.D.Polytechnic, Patan	2/12/2013 TO 13/12/2013
3	Karmyogi Residential tranining For quality Improvement Programme in Technical Eduaction	Govt. of Gujarat, Education dept.	17/1/2014 TO 19/1/2014
4	RECENT TREND IN POWER SYSTEM	SVNIT-Surat	16/6/2014 TO 20/6/2014
5	Advance in Control and instrumentation education and implementations	SVNIT-Surat	18/5/2015 TO 23/5/2015
6	RECENT TRENDS IN POWER SYSTEM MANAGEMENT	NITTTR-Ahmedabad	22/5/2017 TO 26/5/2017
7	Measurement, Troubleshooting & Quality Testing of Electrical Equipment	LDCE-Ahmedabad	28/5/2018 TO 1/6/2018
8	Professional and Managerial Skill for Effective Work Life Balance	NITTTR, EX Centre, Ahmedabad	21/8/2023 TO 25/8/2023
9	Solar PV Installers	Gujarat Power Engineering and Research Institute, mehsana	1/11/2023 TO 7/11/2023
10	Patent Drafting and Filling	Government Polytechnic, Ahmedabad	20/2/2023 TO 24/2/2023
11	Industrial Training	Australian Premium Solar PVT LTD	17/6/2024 TO 29/6/2024
12	Industrial Training	GETCO 220 KV S/S , Sankhari, Patan	8/7/2024 TO 20/7/2024
13	Leadership Education for Academic Program	NITTTR, EX Centre, Ahmedabad	23/6/2025 TO 27/6/2025

**17**

**Membership**

- ISTE Membership

1	Name	Manishkumar D.Patel																																																																										
2	Post	Assistant Professor																																																																										
3	Email	manish.patel@gecpatan.ac.in																																																																										
4	Date of Birth																																																																											
5	Educational Qualification	M.E (Electrical), B.E (Electrical)																																																																										
6	Webpage																																																																											
7	Area of Specializations	Power system																																																																										
8	Work Experience	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Position</th> <th>Organization</th> <th>Period</th> <th>Experience</th> </tr> </thead> <tbody> <tr> <td colspan="5">Teaching</td></tr> <tr> <td>1</td><td>Assistant Professor</td><td>SPCE-Visnagar</td><td>27/7/2007 TO 30/4/2011</td><td>3.8 Year</td></tr> <tr> <td>2</td><td>Assistant Professor</td><td>Government Engineering College, Palanpur</td><td>09/05/2011 to 5/12/2018</td><td>7.7 Year</td></tr> <tr> <td>3</td><td>Assistant Professor</td><td>Government Engineering College, Patan</td><td>6/12/2018 to continue</td><td>7.1 years</td></tr> <tr> <td colspan="5">Research</td></tr> <tr> <td>1</td><td></td><td></td><td></td><td></td></tr> <tr> <td>2</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="5">Industry</td></tr> <tr> <td>1</td><td></td><td></td><td></td><td></td></tr> <tr> <td>2</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="5">Others</td></tr> <tr> <td>1</td><td></td><td></td><td></td><td></td></tr> <tr> <td>2</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					Sr. No.	Position	Organization	Period	Experience	Teaching					1	Assistant Professor	SPCE-Visnagar	27/7/2007 TO 30/4/2011	3.8 Year	2	Assistant Professor	Government Engineering College, Palanpur	09/05/2011 to 5/12/2018	7.7 Year	3	Assistant Professor	Government Engineering College, Patan	6/12/2018 to continue	7.1 years	Research					1					2					Industry					1					2					Others					1					2				
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9	Subjects teaching at UG Level	POWER SYSTEM, Basic electrical engineering, , Electrical Machine-I,II																																																																										
10	Subjects teaching at PG Level																																																																											
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		1625-1637		
13	<b>Projects Carried out</b>			
14	<b>Patents : 01</b>		ELECTRICAL CIRCUIT FAULT DIAGNOSIS DEVICE	
15	<b>No. of Books published with details</b>		<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>	
16	<b>Trainings:</b>			
Sr. No	Title	Organized By	Duration	
1	INDUCTION PHASE-I	NITTTR, Ex.Center, Ahmedabad	29-4-2013	10/5/2013
2	RECENT TRENDS IN POWER SYSTEMS	SVNIT, SURAT	16-6-2014	20-6-2014
3	INDUCTION TRAINING PROGRAMME PHASE-II	NITTTR, Ex.Center, Ahmedabad	15-9-2014	26-9-2014
4	DEVELOPMENT OF LAB MANUAL AND PROJECT WORK FOR ELECTRICAL AND ALLIED PROGRAMMES	NITTTR, Ex.Center, Ahmedabad	18-5-2015	22-5-2015
5	MODERN TRENDS IN RENEWABLE ENERGY	GOVERNMENT ENGINEERING COLLEGE, BHARUCH	2/11/2015	6/11/2015
6	RECENT TRENDS IN AUTOMATION AND CONTROL	GOVERNMENT ENGINEERING COLLEGE, PATAN	24-10-2016	28-10-2016
7	ELECTRIFICATION OF BUILDING COMPLEXES	NITTTR, Ex.Center, Ahmedabad	5/12/2016	9/12/2016
8	WIND AND SOLAR POWER GENERATION	NITTTR, Ex.Center, Ahmedabad	2/1/2017	6/1/2017
9	Faculty Development Program for Entrepreneurship Development	ICECD,Bopal, Ahmedabad	2/1/2019	12/1/2019
10	Scilab Software	NITTTR, Bhopal	15/7/2019	19/7/2019
11	Faculty Development for Teacher for Technical Courses	IITE,Gandhinagar	27/12/2019	2/1/2020
12	Non-Conventional Energy Resources	Mooc,swayam	27/1/2020	17/4/2020
13	Comprehensive Online Intellectual Property Rights(IPR)	I Hub,ATAL	6/7/2020	14/9/2020
14	UDAYAM (Unlimited	KCG,HRDC	28/7/2020	18/8/2020

		Digital Advanced Yearlong Academic Method of Learning) E-Content Development Course			
	15	Recent Advancement in Power system with Renewable Energy Sources	AICTE,ATAL	17/1/2022	21/1/2022
	16	STUDENT ASSESSMENT	Mooc,swayam	30/1/2023	28/4/2023
	17	Industrial Training	Australian Premium Solar India Ltd Tajpur,Gujarat	1/7/2024	13/7/2024
	18	Industrial Training	Hitachi Hi-Rel power electronics Pvt Ltd, Sanand	17/7/2024	30/7/2024
<b>17</b>	<b>Membership</b> • --				

<b>1</b>	<b>Name</b>	Anil N. Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	anil.patel@gecpanan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.E. (Power System)							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Power System Analysis, High Voltage, Power System Protection							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer	Sankalchand Patel College of Engineering, Visanagar	01/07/2007 to 25/04/2011	04 years, 09 Months					
2	Assistant Professor	Government Engineering College, Palanpur	26/04/2011 to 20/05/2016	05 years, 01 Months					
3	Assistant Professor	Government Engineering College, Patan	21/05/2016 to onwards	09 years, 08 Months					
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Interconnected Power System, Power System-I and II, Basic of Electrical Engineering, Power System Operation and Control							
<b>10</b>	<b>Subjects teaching at PG Level</b>	--							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D.:--</li> <li>● PG Students :--</li> </ul>								

<b>12</b>	<b>Papers Publications:</b>		
	<b>Sr. No.</b>	<b>Publication Details</b>	
	1	COMPARATIVE ANALYSIS OF MPPT TECHNIQUES FOR GRID TIE SOLAR PV APPLICATIONS, AnilN. Patel andRajendra R. Aparnathi, J. Electrical Systems 20-7s (2024): 2453-2463	
<b>13</b>	<b>Projects Carried out</b>		
<b>14</b>	<b>Patents : 01</b>		
<b>15</b>	<b>No. of Books published with details</b>		
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<b>16</b>	<b>Trainings:</b>		
	<b>Sr. No</b>	<b>Title</b>	<b>Organized By</b>
	1	INDUCTION TRAINING PROGRAM PHASE -1	Nitttr Bhopal Ext. Centre RCTI Ahmedabad
	2	KARMYOGI RESIDENTIAL TRAINING FOR QUALITY IMPROVEMENT IN TECHNICAL EDUCATION	DTE Gandhinagar
	3	INDUCTION TRAINING PROGRAM PHASE -2	Nitttr Bhopal Ext. Centre RCTI Ahmedabad
	4	RECENT TRENDS IN POWER SYSTEM	SVNIT Surat
	5	DEVELOPMENT OF LAB MANUAL & PROJECT WORK FOR ELECTRICAL AND ALLIED PROGRAMME	Nitttr Bhopal Ext. Centre RCTI Ahmedabad
	6	Recent Trends in Power System Operation and Control	Vishwakarma Govt Engineering College, Chandkheda
	7	Comprehensive Online Intellectual Property Rights(IPR)	Online
	8	Recent Advancement in Power system	Online

		with Renewable Energy Sources		
9	UDAYAM (Unlimited Digital Advanced Yearlong AcademicMethod of Learning) E-Content Development Course	Online	28-07-2020 TO 18-08-2020	
10	Technological Advancements in Electrical Power System	Online VC_EE/46	11-03-2019 TO 22-03-2019	
11	CONDITIONING MONITORING OF POWER TRANSFORMER	IITRAM, Ahmedabad	2018-03-05 TO 2018-03-09	
12	Effective Teaching Skill Using Modern Digital Techniques	K D Polytechnic, Patan	2016-10-17 TO 2017-10-28	
13	Electrification of building and Complexes	Nitttr Bhopal Ext. Centre RCTI Ahmedabad	2016-12-05 TO 0016-12-09	
14	Enhancing Vocational Entrepreneurship Skills	Nitttr Bhopal Ext. Centre RCTI Ahmedabad	2018-06-04 TO 2018-06-08	
15	Industrial Training	APS Himmatnagar	01-07-2024 to 13-07-2024	
16	Industrial Training	Hi-Hitachi Plant Sanand	17-07-2024 to 30-07-2024	
17	Student Assessment	MOOC	January to Jun 2024	
<b>17</b>	<b>Membership</b> <ul style="list-style-type: none"><li>• ISTE Membership</li></ul>			

1	Name	Prof. (Dr.) PRAVINKUMAR D. PATEL																														
2	Post	Assistance Professor Electrical Engg																														
3	Email	<a href="mailto:pravin.patel@gecpatan.ac.in">pravin.patel@gecpatan.ac.in</a>																														
	Date of Birth																															
5	Educational Qualification	Ph.D. ELECTRICAL																														
6	Webpage																															
7	Area of Specializations	Power Electronics and drives																														
8	Work Experience	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Post</th> <th rowspan="2">Institute</th> <th colspan="3">Period/Tenure</th> </tr> <tr> <th>From Date</th> <th>To Date</th> <th>Total Tenure (Automatic)</th> </tr> </thead> <tbody> <tr> <td>1. )</td> <td>LECTURER</td> <td>B.S.PATEL POLYTECHNIC, KHERVA</td> <td>15-01-2004</td> <td>28-02-2012</td> <td>8YEARS</td> </tr> <tr> <td>2. )</td> <td>ASST. PROF.</td> <td>GOVERNMENT ENGG COLLEGE GODHRA</td> <td>1.03.2012</td> <td>29.6.2015</td> <td>3.5 YEARS</td> </tr> <tr> <td>3. )</td> <td>ASST. PROF.</td> <td>GOVERNMENT ENGG COLLEGE PATAN</td> <td>30.6.2015</td> <td>Till date</td> <td>10 YEARS</td> </tr> </tbody> </table>					Post	Institute	Period/Tenure			From Date	To Date	Total Tenure (Automatic)	1. )	LECTURER	B.S.PATEL POLYTECHNIC, KHERVA	15-01-2004	28-02-2012	8YEARS	2. )	ASST. PROF.	GOVERNMENT ENGG COLLEGE GODHRA	1.03.2012	29.6.2015	3.5 YEARS	3. )	ASST. PROF.	GOVERNMENT ENGG COLLEGE PATAN	30.6.2015	Till date	10 YEARS
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3. )	ASST. PROF.	GOVERNMENT ENGG COLLEGE PATAN	30.6.2015	Till date	10 YEARS																											
9	Subjects teaching at UG Level	Power Electronics, Electrical Circuit Analysis, Industrial Automation, Microprocessors and Microcontrollers																														
10	Subjects teaching at PG Level																															
11	Research Guidance(count)	<ul style="list-style-type: none"> <li>• Ph.D. :0</li> <li>• PG Students :0</li> </ul>																														
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1	"A Review of MPPT methods for solar pvsystems", National conference, published in Journal of IJREEE Volume 1 : Issue 1, Page: , ISSN-online-2348-4470 ISSN- print-2348-6406, DJMIT, MOGAR, ANAND, FEB 26-27,2015	
2	"Torque Ripple Minimization Techniques of Direct Torque Control Drive of Induction Motor", Proceedings of AEPEE-16, National conference LEC,Morbi, 28/06/16 to 29/06/2016.	
3	"Comparative Study of Direct Torque Control and Space Vector PWM Technique for Torque Ripple Minimization of Induction Motor, proceedings of National Conference on RAACPE2017, ISBN: 978-81-933591-4-3,SCET,SURAT, 25-26 March 2017	
4	"Design and Development of Pick and Place Robotics Arm using PLC-SCADA", April 13, 2017 at Sigma Institute of Engg Vadodara, Gujarat and published in journal IJAERD e-ISSN 2348-4470, p-ISSN-2348-6406, Sigma Institute of Engg Vadodara, Gujarat.April 13, 2017.	
9	"Energy regeneration during deceleration of direct torque control of induction motor drive for electric vehicle", IEEE International conference " ICECCT19" on 20-2-19 to 22-2-19, at SVS College of Engineering, Coimbatore, Tamilnadu. DOI: 10.1109/ICECCT.2019.8869494	
10	"Analysis of Torque Ripple in Direct Torque Control Drive for Induction Motor" , ICAECT2019, Coimbtore.Tamilnadu.	
11	"Energy Regeneration in Direct Torque Control Drive of Induction Motor", International Conference on Power Control and Communication Infrastructure, published in Book series chapter Lecture Notes in Electrical Engineering, Advances in Control Systems and its Infrastructure, vol 604, pp 179–189, 27 Nov 2019, <a href="https://doi.org/10.1007/978-981-15-0226-2_14">https://doi.org/10.1007/978-981-15-0226-2_14</a>	
12	"Regenerative energy fed to the grid by DC–AC converter during deceleration for direct torque control of induction motor drive", International Journal of Ambient Energy, Vol.43, issue 1, Pages 1966-1973, 17 Feb 2020, DOI: 10.1080/01430750.2020.1725631	
13	"Comparative Analysis of Torque Ripple for Direct Torque Control based Induction Motor Drive with different strategies", Australian Journal of Electrical and Electronics Engineering, Vol.19, issue 3, Pages 234-252, 26 Jan 2022, DOI: 10.1080/1448837X.2021.2023249	
14	"Performance Parameters Analysis for Energy Recovery Efficiency during Deceleration of Induction Motor Direct Torque Control Drive using Taguchi Approach", International Conference on Hydro and Renewable Energy Net-Zero Carbon Energy System, Department of Hydro and Renewable Energy, IIT Roorkee from October 17-18, 2022.	
15	Patel, K., Patel, P., Sonawane, C., Bongale, A.K., Tejani, G.G., Singh, S., Varshney, D., Chan, C.K. (2025). Design and evaluation of a parallel manipulator for interconnected transmission tracking. Mathematical Modelling of Engineering Problems, Vol. 12, No. 5, pp. 1615-1626. <a href="https://doi.org/10.18280/mmep.120516">https://doi.org/10.18280/mmep.120516</a>	
13	Projects Carried out	

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	14	Power Electronics For Distribution System and Electric Drives	25-06-2018	04-07-2018	SVNIT,SURAT	
	15	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Role of Renewable Energy Sources in Power System" from 2021-07-05 to 2021-07-09 at Government Engineering College, Patan.	05-07-2021	09-07-2021	Government Engineering College, Patan.	
	16	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on 'smart energy systems	04-10-2021	08-10-2021	IITRAM, Ahmedabad	
	17	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Advancement in Power system with Renewable Energy Sources " from 17/01/2022 to 21/01/2022 at GOVERNMENT ENGINEERING COLLEGE PATAN.	17-01-2022	21-01-2022	Government Engineering College, Patan.	
	18	Applications of AI techniques in Electrical Machines and Power System	27-06-2022	01-07-2022	Vishwakarma Government Engineering College, Chandkheda, Ahmedabad	
	19	"Advanced power electronics and control"	Jul-22	Sep-22	8 week SWAYAM MOOC NPTEL ONLINE FDP	
	20	"Yoga And Positive Psychology For Managing Career And Life"	August - 2023	Oct-23	8 week SWAYAM MOOC NPTEL ONLINE FDP	
	21	AI ROLE IN POWER SYSTEM PROTECTION	16-10-2023	21-10-2023	1 week offline ATAL FDP at LDCE AHMEDABAD	

	22	Two week industrial training at Australian Premium Solar Pvt(I) Ltd.,Tajpur,Prantij	17-06-2024	29-06-2024	2 week	
	23	Two week industrial training at GETCO,MEHSANA 220 KV SUBSTATION	08-07-2024	20-07-2024	2 week	
	24	Quantum Computing: Foundations to Future Avenues AT Idce Ahmedabad	19-01-2026	23-01-2026	1 week	
17	<b>Membership</b> -					

### **Electronics and Communications Engineering Department**

**Number of faculty employed and left during the last three years(2022-2023,2023-24,2024-2025)**

YEAR	NON TEACHING (JOIN)	TEACHING (JOIN)	NON TEACHING (Left/Transferred)	TEACHING (Left/Transferred)
2022-23	00	00	00	01
2023-24	00	00	00	00
2024-25	00	01	00	01

- Permanent Faculty:**

Sr. No.	Name	Post	Appointment is approved by university[Letter Number]
<b>Branch: Electronics and Communication Engineering</b>			
1	Dr. Devendrakumar H. Patel	Associate Professor	Letter No: ED/0811/04/2025, અધિસૂચના ક્રમાંક: ED/MIS/e-file/3/2023/5266/GH, Date: 22-04-2025
2	Dr. Hareshkumar Laxmanbhai Judal	Assistant Professor	ક્ર:જીએસી/નિમણુક/સ.પ્રા.ઇ.સી./૨૦૧૧/ઘ-૨/૧૩૨૮૮ તારીખ: ૩૦-૦૪-૨૦૧૧
3	Mihirkumar M.Patel	Assistant Professor	ક્ર:જીએસી/સી.લ/સહા.પ્રા.ઇ.સી./ ૨૦૧૭/ઘ-૨/૧૪૫૩૭ તારીખ: ૧૨/૦૭/૨૦૧૭
4	Maulik B. Patel	Assistant Professor	ક્ર:જીએસી/સી.લ/સહા.પ્રા.ઇ.સી./ ૨૦૧૭/ઘ-૨/૧૭૧૫૫

			તારીખ: ૧૮/૦૮/૨૦૧૭
5	Dr. Jayeshkumar C. Prajapati	Assistant Professor	ક:જીઈસી/સી.ભ/સહા.પ્રા./ઈ.સી./ ૨૦૧૭/ધ-૨/૧૪૫૩૭  તારીખ: ૧૨ /૦૭ /૨૦૧૭
6	Shyamkumar Amrutlal Pankhaniya	Assistant Professor	ક:જીઈસી/સી.ભ/સહા.પ્રા./ઈ.સી./ ૨૦૧૭/ધ-૨/૧૪૫૩૭  તારીખ: ૧૨ /૦૭ /૨૦૧૭
7	Mehul L. Patel	Assistant Professor	ક:જીઈસી/સી.ભ/સહા.પ્રા./ઈ.સી./ ૨૦૧૭/ધ-૨/૧૪૫૩૭  તારીખ: ૧૨ /૦૭ /૨૦૧૭
8	Roshniben Abherajbhai Chaudhari	Assistant Professor	ક:જીઈસી/સી.ભ/સહા.પ્રા.ઇ.સી./ ૨૦૧૭/ધ-૨/૧૭૧૫૫  તારીખ: ૧૮/૦૮/૨૦૧૭
9	Anju Murlibhai Vasdewani	Assistant Professor	ડીટીઈ/ જીઈસી/સહા. પ્રા.ઇ. સી./સી.ભ./૨૦૨૧/ધ- 2/11539  dated: 3 Dec. 2021

1	Name	Dr. Devendrakumar H. Patel			
2	Post	Associate Professor (EC)			
3	Email	devendra.patel@gecpatan.ac.in			
4	Date of Birth				
5	Educational Qualification	BE, ME, PhD			
6	Webpage				
7	Area of Specializations	Multiband Antennas, Wireless Communication, VLSI			
8	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	Teaching				
	1	Lecturer	L.D.R.P. Institute of Technology and Research, Gandhinagar	01-07-2009 to 11-05-2011	1 year, 10 months
	2	Assistant Professor	Government Engineering College, Gandhinagar	12-05-2011 to 23-04-2025	13 years, 11 months
	3	Associate Professor	Government Engineering College, Patan	24-04-2025 onwards	
	Research				
	1				
	2				
	Industry				
	1				
	2				
	Others				
	1				
	2				
9	Subjects teaching at the UG Level	Fundamental of Semiconductor Package Manufacturing and Test, Electromagnetics, Wireless Communication, Indian Constitution, Programming for Problem Solving			
10	Subjects teaching at PG Level				
11	<b>Research Guidance(count)</b>				
	<ul style="list-style-type: none"> <li>• Ph.D.:</li> <li>• PG Students:</li> </ul>				
12	<b>Papers Publications:</b>				
	Sr. No.	<b>Publication Details</b>			
	1	Patel, D. H., & Makwana, G. D. (2022). A Comprehensive Review on Multi-			

		band Microstrip Patch Antenna Comprising 5G Wireless Communication. International Journal of Computing and Digital Systems, 11(1), 941–953. <a href="https://doi.org/10.12785/ijcds/110177">https://doi.org/10.12785/ijcds/110177</a> .													
	2	Patel, D. H., & Makwana, G. D. (2023). Multiband Antenna for 2G/3G/4G and Sub-6 GHz 5G Applications Using Characteristic Mode Analysis. Progress in Electromagnetics Research M, 115, 107–117. <a href="https://doi.org/10.2528/pierm22122901">https://doi.org/10.2528/pierm22122901</a> .													
	3	Patel, D. H., & Gautam Durlabhji Makwana. (2023). Multiband Antenna for GPS, IRNSS, Sub-6 GHz 5G and WLAN Applications. Progress in Electromagnetics Research M, 116, 53–63. <a href="https://doi.org/10.2528/pierm23020902">https://doi.org/10.2528/pierm23020902</a> .													
	4	Dalvadi, P., Patel, A., Patel, D. H., & Makwana, G. D. (2021). Design of Wideband Bowtie Antenna using Tapered Balun for Industrial, Scientific, and Medical Band Application. International Journal of Information Technology and Electrical Engineering (ITEE), 10(3), 61-66.													
	5	D. H. Patel and G. D. Makwana, "Triple-band antenna for GPS, Sub-6 GHz 5G and WLAN Wireless Applications," 2023 IEEE Wireless Antenna and Microwave Symposium (WAMS), Ahmedabad, India, 2023, pp. 1-5, doi: 10.1109/WAMS57261.2023.10242992.													
	6	Prajapati PP, Patel AM, Kshatriya AJ, Patel KV, Sah G, Dave C, Sheth KR, Patel DH. (2025) Design Optimization of CMOS Folded-Cascode OTAs via Multi-Objective Evolutionary Algorithms: PSO, DE, and CSPSO Approaches. Indian Journal of Science and Technology. 18(36):2942-2952. <a href="https://doi.org/10.17485/IJST/v18i36.1552">https://doi.org/10.17485/IJST/v18i36.1552</a>													
13	<b>Projects Carried out</b>														
14	<b>Patents: 03</b>	<ol style="list-style-type: none"> <li>Patel, D. H., Bhatt, R. V., &amp; Makwana, G. D. (2022). India Design Patent 368819-001, Class 14-03, Multiband Antenna, Aug. 5, 2022, Kolkata: India Office of Controller General of Patents, Designs &amp; Trade Marks.</li> <li>Patel, D. H., &amp; Makwana, G. D. (2023). India Design Patent 379247-001, Class 14-03, Multiband Antenna, Feb. 13, 2023, Kolkata: India Office of Controller General of Patents, Designs &amp; Trade Marks.</li> <li>Bhatt, R. V., Makwana, G. D., &amp; Patel, D. H. (2022). India Design Patent 370713-001, No. 124380, Class 14-03, Multiband Antenna, Sep. 12, 2022, Kolkata: India Office of Controller General of Patents, Designs &amp; Trade Marks.</li> </ol>													
15	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>													
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		“ANALOG ELECTRONICS”	PDPU, GANDHINAGAR	
3	“KARMYOGI RESIDENTIAL TRAINING FOR QUALITY IMPROVEMENT PROGRAM IN TECHNICAL EDUCATION”	ORGANIZED BY CTE HELD AT SWAMINARAYAN DHAM, GANDHINAGAR	12/12/2013 to 14/12/2013	
4	“COMPUTATION METHODS IN ENGINEERING USING MATLAB”	HELD AT IIT, GANDHINAGAR	21/03/2014 to 22/03/2014	
5	“ICT INFRASTRUCTURE: TOWARDS A DIGITAL NETWORK”	HELD AT IIT GANDHINAGAR	23/05/2014 to 24/05/2014	
6	A SEMINAR ON “CEO IN THE CLASSROOM”	JOINTLY ORGANIZED BY PG RESEARCH CENTRE FOR GOVERNANCE SYSTEMS(CGS) OF GTU AND GLOBAL TALENT TRACK HELD AT GTU CHANDKHEDA CAMPUS, AHMEDABAD	02/08/2014 to 02/08/2014	
7	“LOW COST-HIGH TECH AUTOMATION”	HELD AT IIT GANDHINAGAR	25/09/2014 to 27/09/2014	
8	AICTE SPONSORED A TWO-WEEK QIP SHORT-TERM COURSE ON “SATELLITE IMAGE PROCESSING-BASIC TO ADVANCED”	CONDUCTED BY IIT BOMBAY	24/11/2014 to 05/12/2014	
9	MANAGEMENT DEVELOPMENT PROGRAMME ON “ACADEMIC LEADERSHIP PROGRAMME” FOR TEQIP INSTITUTES	HELD AT IIM KOZHIKODE	26/10/2015 to 31/10/2015	
10	TEQIP-II SPONSORED ONE-WEEK FDP ON “E-CONTENT DEVELOPMENT”	HELD AT GEC GANDHINAGAR	01/01/2016 to 07/01/2016	
11	TEQIP-II SPONSORED TWO-DAYS WORKSHOP ON “RECENT TRENDS IN INSTRUMENTATION”	ORGANIZED BY IC DEPARTMENT HELD AT GEC GANDHINAGAR	21/01/2016 to 22/01/2016	
12	A SHORT-TERM TRAINING PROGRAM	HELD AT NITTTR BHOPAL	04/04/2016 to 15/04/2016	

		ON “INDUCTION TRAINING PHASE-I (IP-02)”		
13	TEQIP-II SPONSORED ONE-WEEK WORKSHOP ON “ACCREDITATION AND ACADEMIC AUDIT”	HELD AT GEC GANDHINAGAR	06/06/2016 to 10/06/2016	
14	SUMMER SCHOOL ON “SPEECH SIGNAL PROCESSING (S4P)”	HELD AT DAIICT-GANDHINAGAR	04/07/2016 to 08/07/2016	
15	3RD IEEE WORKSHOP ON “ADVANCED MATLAB APPLICATIONS – ADMAT 2016.”	HELD AT IIT GUWAHATI	01/10/2016 to 02/10/2016	
16	A SHORT-TERM TRAINING PROGRAM ON “INDUCTION TRAINING PHASE-II (IP-24)”	HELD AT NITTTR EXTENSION CENTRE, RCTI CAMPUS, AHMEDABAD	17/10/2016 to 28/10/2016	
17	TEQIP-II SPONSORED A TWO-WEEK STTP ON “RECENT TRENDS IN ENGINEERING & TECHNOLOGY AND ITS IMPACT ON ACADEMIC REFORMS”	HELD AT GEC GANDHINAGAR	19/12/2016 to 30/12/2016	
18	TEQIP-II SPONSORED ONE-WEEK STTP ON “ENHANCING RESEARCH COMMUNICATION”	HELD AT GEC GANDHINAGAR	13/02/2017 to 17/02/2017	
19	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM (iFDP) FOR 3 DAYS (PHASE-1 & 2) ON “INTERACTIVE TEACHING METHODS INCLUDING ACTIVE & PROBLEM BASED LEARNING, 4Cs THEORY AND EMPLOYABILITY SKILLS FOR 21ST CENTURY WORLD OF WORK.”	HELD AT GEC GANDHINAGAR UNDER TEQIP-II.	08-03-2017 to 09-03-2017 & 20-03-2017	
20	TWO-DAY TRAINING PROGRAM ON “MONITORING CYCLONES THROUGH REMOTE SENSING WITH	HELD AT GIDM, RAISAN, GANDHINAGAR	22/06/2017 to 23/06/2017	

		SPECIAL EMPHASIS ON GUJARAT COAST”		
21	FACULTY DEVELOPMENT PROGRAMME ON “STUDENT INNOVATION AND START-UPS”	ORGANISED AT ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA (EDII), AHMEDABAD	17/12/2018 to 21/12/2018	
22	FACULTY DEVELOPMENT PROGRAMME ON “BEYOND THE CLASSROOM TOWARDS EXCELLENCE”	ORGANISED AT INDIAN INSTITUTE OF TEACHER EDUCATION (IITE), GANDHINAGAR	27/01/2019 to 02/01/2020	
23	TWO DAYS NATIONAL WORKSHOP ON “ANTENNA MEASUREMENT TECHNOQUES (AMT-2020)”	ORGANIZED BY BVM VALLABH VIDHYANAGAR	31/01/2020 to 01/02/2020	
24	MOOC – NPTEL ONLINE CERTIFICATION COURSE ON “NBA ACCREDITATION AND TEACHING-LEARNING IN ENGINEERING (NATE)”	MOOC – NPTEL	JANUARY-APRIL 2020 (12 WEEK COURSE)	
25	MOOC – NPTEL ONLINE CERTIFICATION COURSE ON “ANTENNAS”	MOOC – NPTEL	JANUARY-APRIL 2020 (12 WEEK COURSE)	
26	ONLINE CERTIFICATE COURSE ON “COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)”	ORGANISED BY i-Hub, KCG AHMEDABAD.	06/07/2020 to 14/09/2020	
27	ONLINE UDAYAM (UNLIMITED DIGITAL ADVANCED YEAR-LONG ACADEMIC METHOD OF LEARNING) “E-CONTENT DEVELOPMENT” COURSE	JOINTLY ORGANISED BY KCG AHMEDABAD AND HRDC, GUJARAT UNIVERSITY.	28/07/2020 to 18/08/2020	
28	ONLINE SHORT-TERM TRAINING PROGRAMME ON “TECHNICAL RESEARCH METHODOLOGY”	CONDUCTED BY NITTTR BHOPAL	30/08/2021 to 03/09/2021	
29	ONLINE SHORT-TERM	CONDUCTED BY	21/03/2022 to	

		TRAINING PROGRAMME ON "LABVIEW"	NITTTR BHOPAL	25/03/2022	
30	CEP COURSE ON "SEMICONDUCTOR TECHNOLOGY AND MANUFACTURING (WITH HANDS ON TRAINING)"	CONDUCTED BY IIT BOMBAY		06/11/2023 to 10/11/2023	
31	MOOC-NPTEL ONLINE CERTIFICATION COURSE/FDP ON "EDUCATION FOR SUSTAINABLE DEVELOPMENT"	MOOC – NPTEL		JANUARY-APRIL 2024 (12 WEEK COURSE)	
32	MOOC-NPTEL ONLINE CERTIFICATION COURSE/FDP ON "COMPUTER NETWORKS AND INTERNET PROTOCOL"	MOOC – NPTEL		JANUARY-APRIL 2024 (12 WEEK COURSE)	
33	TWO-WEEK INDUSTRIAL TRAINING AT AMTECH ELECTRONICS (INDIA) LIMITED, GANDHINAGAR	AMTECH ELECTRONICS (INDIA) LIMITED, GANDHINAGAR		17/06/2024 to 29/06/2024	
34	TWO-WEEK INDUSTRIAL TRAINING AT BISAG-N, GANDHINAGAR	BISAG-N, GANDHINAGAR		15/07/2024 to 27/07/2024	
35	ATAL FDP ON RECENT DEVELOPMENT IN RF AND ANTENNA DESIGNS FOR VARIOUS APPLICATIONS (ONLINE)	CONDUCTED BY GEC RAJKOT		27/01/2025 to 01/02/2025	
36	AICTE QIP PG CERTIFICATE PROGRAMME ON SEMICONDUCTOR TECHNOLOGIES: DESIGN, FABRICATION AND APPLICATIONS UNDER THE AICTE QIP SPONSORED CATEGORY	CONDUCTED BY IIIT SURAT (MIXED MODE)		16/06/2025 to 21/12/2025	
17	<b>Membership</b>				

## Faculty Profile

1.	Name:	Judal Hareshkumar Laxmanbhai	
2.	Post:	Assistant Professor(E&C Engineering)	
3.	Email:	haresh.judal@gecpatan.ac.in	
4.	Date of Birth :		
5.	Educational Qualification:	Ph.D., M.E.(Communication systems Engineering), B.E.(E&C)	
6.	Webpage:	-	
7.	Area of Specializations:	Communication systems Engineering	
8.	Work Experience:	<p>Teaching: 19 Year</p> <p>Research: -</p> <p>Industry: -</p> <p>Others -</p>	
Sr. No.	Institute	Period	Experience
1	L.C. Institute of Technology, Bhandu	19-05-2006 to 30-11-2010	4 Year 6 Month
2	L.C. Institute of Technology, Bhandu	01-12-2010 to 26-05-2011	6 Month
3	Government Engineering College Patan	27-05-2011 to Continue..	14 Year 8 Month
9.	Subjects teaching at Under Graduate Level:	Digital Communication,Wireless Communication Digital Signal Processing	
10.	Post Graduate Level:	-----	
11.	Research guidance:	Master's Degree : ----- Ph.D.: -----	
12.	Research papers publications:	<p>1. Paper titled "Implementation and Comparison of Linear Algorithms for CDMA based Multi-user detection Techniques using MATLAB" selected in National Conference on "Smart Communication Technologies and Industrial Informatics"(SCTII) at National Institute of Technology,Rourkela from 3<sup>rd</sup> &amp; 4<sup>th</sup> February-2007.</p> <p>2. Innovative idea titled "Security System using Mobile" presented at National work shop on "Igniting the Spirit of Innovation in Engineering Students" a faculty development program (under TEQIP) at Sreenidhi Institute of Science &amp; Technology, Yamnampet, Ghatkesar, Hyderabad on 24th &amp; 25th January, 2008.</p> <p>3. Innovative idea titled "Cell stop car" selected at National work shop on "Igniting the Spirit of Innovation in Engineering Students" a faculty</p>	

		development program (under TEQIP) at Sreenidhi Institute of Science & Technology, Yamnampet, Ghatkesar, Hyderabad on 24th &25th January, 2008.
4.		Paper titled “IMPLEMENTATION OF ZERO FORCING LINEAR ALGORITHM FOR CDMA BASED MULTIUSER DETECTION TECHNIQUES USING MATLAB” in International Journal of Emerging Technologies and Application in Engineering, Technology and Sciences (IJ-ETA-ETS) July '09 – December '09.
5.		Paper titled “Implementation of Zero Forcing Linear Algorithm for CDMA Based Multiuser Detection Technique Using MATLAB” in The IUP Journal of telecommunications Vol. III No.4 November-2011.
6.		Haresh L. Judal, Dr.K.G.Maradia,“Multiuser MIMO-OFDM for Next-Generation Wireless Systems” in National Conference-Computer Engineering, Information and Communication Technology (NCCICT)-2016 organized by Government Engineering College, Gandhinagar, SPFU, CTE-Gujarat, IPR under TEQIP II at GEC Gandhinagar on 15th-16th September, 2016.
7.		Haresh L. Judal, Dr.K.G.Maradia, “Linear Detection in Massive MIMO for Next Generation Wireless Systems” in International Journal of Research in Electronics and Computer Engineering (IJRECE), ISSN: 2393-9028 (PRINT)   ISSN: 2348-2281 (ONLINE), IJRECE VOL. 6 ISSUE 4, OCTOBER- DECEMBER 2018, Page no 1547-1549. [UGC Approved Journal]
8.		Haresh L. Judal, Dr. K. G. Maradia, “5G Multi-Carrier Waveform Candidates and Linear MIMO Data Detection” in Proceedings of First Springer International Conference on Advances in Electrical and Computer Technologies 2019 (ICAECT - 2019), 26 - 27 April 2019, Volume 2, Page No.:680-689.[Springer Conference]
9.		Haresh L. Judal, Dr.K.G.Maradia, “Capacity Analysis and Linear Detection in Massive MIMO for 5G Wireless Systems” in ‘International Journal of Innovative Technology and Exploring Engineering (IJITEE)’, ISSN: 2278-3075 (Online), Volume-8 Issue-9, July 2019, Page No.:2938-2943.[UGC Care

		List]		
10.		Haresh L. Judal, Dr.K.G.Maradia, "Key Enabling Technologies for Next Generation Wireless Systems" in International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication, and Embedded Systems (VSPICE-2023) being held on 19 <sup>th</sup> and 20 <sup>th</sup> December 2023 at N. M. A. M. Institute of Technology, Nitte, India		
11.		Haresh L. Judal, Avani Vithalani, Shahid S. Modasiya, "Next Generation Technologies for 5G and Beyond Networks: Overview, Recent Trends, and Challenges" at the 3rd International Conference on "Women in Science & Technology: Creating Sustainable Career" organized by Birla Vishvakarma Mahavidyalaya during 28-30 December, 2023.		
12.		Haresh L. Judal, Avani Vithalani, Shahid S. Modasiya, "Next Generation Technologies for 5G and Beyond Networks: Overview, Recent Trends, and Challenges" in Vol.14 / Issue 82 / Feb / 2024 Indian Journal of Natural Sciences ISSN: 0976 – 0997		
13.		Haresh L. Judal, Dr.K.G.Maradia, "Towards 6G:Next Generation Wireless Systems in Journal of Electrical Systems in Vol. 20 No. 3 (2024) ISSN: 1112-5209		
14.		Judal, H.L., Maradia, K.G. (2024). Key Enabling Technologies for Next-Generation Wireless Systems. In: Ansary, O., Lin, M., Shivakumar, B.R. (eds) Recent Advances in Signals and Systems. VSPICE 2023. Lecture Notes in Electrical Engineering, vol 1227. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-97-4657-6_24">https://doi.org/10.1007/978-981-97-4657-6_24</a> pp 331-346		
13.	Projects Carried out:	-----		
14.	Patents:	-----		
15.	No. of Books published with details:	-----		
16.	Training :			
Sr. No.	Title of Training	Start date	End date	Training Venue
1	3G-4G Technology	30-09-2013	04-10-2013	SVNIT Surat
2	Workshop on MIS Conducted by the NPIU for TEQIP-II	09-10-2013	10-10-2013	Institute of Chemical

					technology Mumbai
	3	Karmayogi Residential training for Quality Improvement in Technical Education	17-01-2014	19-01-2014	Swaminarayan Dham, Gandhinagar
	4	Induction Training Programme Phase-I	20-01-2014	31-01-2014	NITTTR Ahmedabad
	5	Computational Methods in Engineering using MATLAB	21-03-2014	22-03-2014	IIT Gandhinagar
	6	MATLAB Programming	04-08-2014	08-08-2014	NITTTR Bhopal
	7	Induction Training Programme Phase-II	15-09-2014	26-09-2014	NITTTR Ahmedabad
	8	MIMO Wireless Communications: Fundamentals and Advancements	06-07-2015	11-07-2015	IIT Delhi
	9	Emerging Technologies in Mobile Communication	02-05-2016	07-05-2016	NIT Goa
	10	Wireless and Mobile Communication	07-11-2016	11-11-2016	NITTTR Bhopal
	11	Signal Processing for 5G Massive MIMO Wireless Systems	28-01-2017	30-01-2017	IIT Kanpur
	12	LaTex for Academic Writing	20-03-2017	24-03-2017	GEC Patan
	13	i-FDP -International Faculty Development Program	10-03-17, 14-03-17, 27-03-17	10-03-17, 14-03-17, 27-03-17	GEC Patan & Mahatma Mandir
	14	Advanced Wireless Communication using USRP/GNU Radio	16-08-2017	20-08-2017	Ahmedabad University
	15	Future wireless communication system: Theory & Practice on WiCOMM Trainer & SDR Kit	22-01-2018	23-01-2018	GEC Gandhinagar
	16	Advanced 5G Wireless Communications: Performance Analysis and Monte-Carlo Simulations	18-06-2018	23-06-2018	Ahmedabad University
	17	5G Communications	07-12-2018	08-12-2018	DAIICT
	18	Evolution of Air Interface Towards 5G	25-02-2019	19-04-2019	MOOC NPTEL Online Course
	19	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)"	06-07-2020	14-09-2020	GKS online IPR FDP
	20	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	18-01-2021	09-04-2021	MOOC NPTEL Online Course
	21	Introduction To Internet of Things	25-07-2022	14-10-2022	MOOC NPTEL Online Course
	22	Fundamentals Of MIMO Wireless Communication	23-01-2023	17-03-2023	MOOC NPTEL Online Course
	23	Intellectual Property	20-01-2025	11-04-2025	MOOC NPTEL Online Course
<b>17.</b>	<b>Membership:</b>	1. Life Member of IETE Membership Number: M237641 2. Life Member of ISTE Membership Number:LM49722			

## Faculty Profile

<b>1</b>	<b>Name</b>	Mihirkumar M.Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	mihir.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.tech							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	DSP, Analog and Digital Communication							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	1	Assistant Professor	Government Engineering College, Patan	13/07/2017 to till Date	8 years, 07 Months				
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1								
	2								
	<b>Others</b>								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	Basic Electronics Engineering, Engineering Electromagnetics							
<b>10</b>	<b>Subjects teaching at PG Level</b>	Nil							
<b>11</b>	<b>Research Guidance(count)</b>								
	• Nil								
<b>12</b>	<b>Papers Publications:</b>								
	Sr. No.	<b>Publication Details</b>							

<b>13</b>	<b>Projects Carried out</b>																																			
<b>14</b>	<b>Patents :</b>																																			
<b>15</b>	<b>No. of Books published with details</b>																																			
	<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>																																			
<b>16</b>	<b>Trainings:</b>																																			
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<b>17</b>	<b>Membership</b>																																			
	<ul style="list-style-type: none"> <li>●</li> </ul>																																			

<b>1</b>	<b>Name</b>	Maulik B. Patel				
<b>2</b>	<b>Post</b>	Assistant Professor				
<b>3</b>	<b>Email</b>	maulik.patel@gecpatan.ac.in				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	PhD				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specializations</b>	Microwave, Antenna, Communication				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	<b>Teaching</b>					
	1	Lecturer	Government Polytechnic, Palanpur	24/07/2017 to 04/09/2017	01 Months	
	2	Assistant Professor	Government Engineering College, Patan	5/09/2017 onwards	8 years, 04 Months	
<b>9</b>	<b>Subjects teaching at UG Level</b>	Microwave Theory and Techniques , Antenna and Wave Propagation, Control System, IPDC,Basic Electronics				
<b>12</b>	<b>Papers Publications:</b>					
	Sr. No.	<b>Publication Details</b>				
	1	Analysis and Design of Low Noise Amplifier using Bipolar Junction Transistor for Wide Band Application of 1Ghz-2Ghz., International Journal of Advance Engineering and Research Development Volume 4, Issue 9, September -2017				
	2	Comparision Analysis Of Low Noise Applier By Using Fetand Bjt For Microwave Frequency Bands, International Journal of Advance Engineering and Research Development,Volume 4, Issue 10, October - 2017				
	3	Comparative Analysis of Low Noise Amplifiers (LNA) Fabricated from GaAs,GaN, InP, SiGe , BiCMOS ,CNFET, Silicon for High-Frequency Applications, Journal of INFORMATION ENGINEERING AND MANAGEMENT,Volume 10 ,No.12s ,2025				
<b>16</b>	<b>Trainings:</b>					

Sr. No	Title	Organized By	Duration	
1	“Faculty Development Program for Student Induction (FDP-SI)” at Gujarat Technical University, Ahmedabad organized by	(AICTE).	30/6/2018	6/7/2018
2	Beyond the classroom towards the excellence	IITE GANDHINAGAR	27/07/2018	02/08/2018
3	Induction Programme Phase 1	NITTTR BHOPAL	28/01/2019	08/02/2019
4	Induction Programme Phase 2	NITTTR BHOPAL	03/02/2020	14/02/2020
5	Comprehensive Online Intellectual Property Right	i HUB DTE	06/07/2020	14/09/2020
6	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning)	KCG	28/07/2020	18/08/2020
7	Teaching without Teaching by IPDC	GTU IPDC CELL	21/10/2021	21/10/2021
8	5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education”	AICTE	22/03/2021	26/03/2021
9	Part 1 of the online UHV Refresher 1 FDP organized .	(AICTE)	21/2/2022	25/2/2022
10	TECHNOLOGY ENABLED LEARNING AND ASSESSMENT	NITTTR BHOPAL	10/10/2022	14/10/2022
11	Design Engineering Level 1	GTU Design Cell	24/4/2023	29/4/2023

	12	CLIMATE CHANGE AND DISASTER RISK REDUCTION:	NITTTR BHOPAL	07/08/2023	11/08/2023
	13	Yoga and Positive Psychology for Managing Career and Life	MOOC NPTEL	21-08-2023	13-10-2023 8 WEEK

<b>1</b>	<b>Name</b>	Dr. Jayeshkumar C. Prajapati				
<b>2</b>	<b>Post</b>	Assistant Professor				
<b>3</b>	<b>Email</b>	jayesh.prajapti@gecpanan.ac.in				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	Ph.D.				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specialisations</b>	Analog and Digital Communication Systems, Microwave Theory & Techniques, Fibre Optic Communication.				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	<b>Teaching</b>					
	1	Assistant Professor (ECE)	U.V. Patel College of Engineering	26/06/2000 to 14/11/2016	16 years, 05 Months	
	2	Lecture (ECE)	Government Polytechnic, Vadnagar	15/11/2016 to 12/07/2017	07 Months, 28 Days	
	3	Assistant Professor (ECE)	Government Engineering College, Patan	13/07/2017 Onwards	10 years, 03 Months	
	<b>Research</b>					
	1					
	2					
	<b>Industry</b>					
	1					
	2					
	<b>Others</b>					
	1	Graduate Apprentice	Space Application Centre (SAC), Ahmedabad		01 Year	
	2					
<b>9</b>	<b>Subjects teaching at the UG Level</b>	Analog and Digital Communication, Fiber Optic Communication, Professional Ethics, Microwave Theory & Techniques.				
<b>10</b>	<b>Subjects teaching at PG Level</b>	-				

<b>11</b>	<b>Research Guidance(count)</b>																				
	<ul style="list-style-type: none"> <li>● <b>Ph.D. :</b> 10 As a DPC/ RPC member</li> </ul>																				
<b>12</b>	<b>Papers Publications:</b>																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Sr. No.</th> <th style="text-align: left; padding: 2px;"><b>Publication Details</b></th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td><td style="padding: 2px;">“Enhancing transmission reach: performance analysis of WDM RoF PON OFDM system design with varied QAM schemes”, Authors: Jayeshkumar C Prajapati, Shyamkumar A Pankhaniya, Kishor G Maradia, Journal of Optical Communications, De Gruyter, Publication date 2025/1/28</td></tr> <tr> <td style="text-align: center; padding: 2px;">2</td><td style="padding: 2px;">“Implementation of Segmented Current Steering Digital to Analog Converter Using Memory-Less Pipeline Dynamic Design Technique”. Authors: Shyamkumar Amrutlal Pankhaniya Jayeshkumar C. Prajapati, Anju Murlibhai Vasdewani, Journal: ICTACT JOURNAL ON MICROELECTRONICS, Volume 10, Issue 4, Publication date: 2025/1</td></tr> <tr> <td style="text-align: center; padding: 2px;">3</td><td style="padding: 2px;">“Performance Analysis of 8* 112 Gbps (0.896 Tbps) WDM ROF Link Using 32 QAM-OFDM Modulation Scheme for Achieving Extended Range”. Authors: Jayeshkumar C Prajapati, KG Maradia, Journal: Journal of Optics and Photonics Research, Publication date: 2024/1/16</td></tr> <tr> <td style="text-align: center; padding: 2px;">4</td><td style="padding: 2px;">“Analysis And Performance Enhancement Of Radio Over Fiber Link System”. Authors: Jayeshkumar C Prajapati, Faculty of Engineering &amp; Technology, Ganpat University - Kherva, North Gujarat, India, Publication date: 2020/12</td></tr> <tr> <td style="text-align: center; padding: 2px;">5</td><td style="padding: 2px;">“Performance assessment of 8*112 Gbps coherent WDM OFDM-based ROF system using SMF and ULAF cables for long reach.” Authors: Jayeshkumar C Prajapati, KG Maradia, Journal: International Journal of Research in Electronics and Computer Engineering (IJRECE), Volume - 7, Issue 2, Publication date:2019/4</td></tr> <tr> <td style="text-align: center; padding: 2px;">6</td><td style="padding: 2px;">“Performance Enhancement of Eight-Channel WDM-RoF-PON System at 80 Gbps Data Rate Using Raman Amplifier” Authors: Jayeshkumar C Prajapati, KG Maradia, Publisher: Springer, Singapore, Book: Innovations in Electronics and Communication Engineering, Pages:427-435, Publication date:2018</td></tr> <tr> <td style="text-align: center; padding: 2px;">7</td><td style="padding: 2px;">“Performance Analysis of Radio over Fibre System Using Opti System” Authors: Jayesh Prajapati, Vijay Patel, Amit Agrawal Conference: ICTM-2017, Publication date: 2017/8</td></tr> <tr> <td style="text-align: center; padding: 2px;">8</td><td style="padding: 2px;">“Optimisation of WDM-FSO link using Multiple Beams under different rain conditions.” Authors: Nishu Sahu, Jayesh C Prajapati International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), Volume 4, Issue 5, Publication date:2015/5</td></tr> <tr> <td style="text-align: center; padding: 2px;">9</td><td style="padding: 2px;">“Study and analysis of downstream ROF PON using the TWDM concept.” Authors: Jayesh C. Prajapati, Shivani Raval, Ekta Khimani DOI: 10.13140/RG.2.1.1681.6087, ISBN (ONLINE): 978-93-82288-63-3, Publication date: 2015/3</td></tr> </tbody> </table>	Sr. No.	<b>Publication Details</b>	1	“Enhancing transmission reach: performance analysis of WDM RoF PON OFDM system design with varied QAM schemes”, Authors: Jayeshkumar C Prajapati, Shyamkumar A Pankhaniya, Kishor G Maradia, Journal of Optical Communications, De Gruyter, Publication date 2025/1/28	2	“Implementation of Segmented Current Steering Digital to Analog Converter Using Memory-Less Pipeline Dynamic Design Technique”. Authors: Shyamkumar Amrutlal Pankhaniya Jayeshkumar C. Prajapati, Anju Murlibhai Vasdewani, Journal: ICTACT JOURNAL ON MICROELECTRONICS, Volume 10, Issue 4, Publication date: 2025/1	3	“Performance Analysis of 8* 112 Gbps (0.896 Tbps) WDM ROF Link Using 32 QAM-OFDM Modulation Scheme for Achieving Extended Range”. Authors: Jayeshkumar C Prajapati, KG Maradia, Journal: Journal of Optics and Photonics Research, Publication date: 2024/1/16	4	“Analysis And Performance Enhancement Of Radio Over Fiber Link System”. Authors: Jayeshkumar C Prajapati, Faculty of Engineering & Technology, Ganpat University - Kherva, North Gujarat, India, Publication date: 2020/12	5	“Performance assessment of 8*112 Gbps coherent WDM OFDM-based ROF system using SMF and ULAF cables for long reach.” Authors: Jayeshkumar C Prajapati, KG Maradia, Journal: International Journal of Research in Electronics and Computer Engineering (IJRECE), Volume - 7, Issue 2, Publication date:2019/4	6	“Performance Enhancement of Eight-Channel WDM-RoF-PON System at 80 Gbps Data Rate Using Raman Amplifier” Authors: Jayeshkumar C Prajapati, KG Maradia, Publisher: Springer, Singapore, Book: Innovations in Electronics and Communication Engineering, Pages:427-435, Publication date:2018	7	“Performance Analysis of Radio over Fibre System Using Opti System” Authors: Jayesh Prajapati, Vijay Patel, Amit Agrawal Conference: ICTM-2017, Publication date: 2017/8	8	“Optimisation of WDM-FSO link using Multiple Beams under different rain conditions.” Authors: Nishu Sahu, Jayesh C Prajapati International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), Volume 4, Issue 5, Publication date:2015/5	9	“Study and analysis of downstream ROF PON using the TWDM concept.” Authors: Jayesh C. 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	10	“Design of High Efficiency Class E Power Amplifier in L Band”, Authors: Jayesh C. Prajapati, Ritesh T. Bhaiya, Amrut N. Patel, International Journal for Scientific Research and Development, Volume 3, Issue 2, Pages 727-730 Publication date: 2015/1/5	
	11	“Design and Simulation of UWB Rectangular Patch Antenna and Square Patch Fractal Antenna “Authors: Dipakkumar J Barasara, Jayeshkumar C. Prajapati Publisher: Ganpat University, Publication date: 2015	
	12	“Bandwidth enhancement of a microstrip patch antenna using different structures of dielectric resonator”. Authors: Harshil N Prajapati, Jayesh C Prajapati 2013 Fourth International Conference on Computing, Communications and Networking Technologies (ICCCNT), Publisher: IEEE Publication date: 2013/7/4	
	13	“Analysis and Study of FGMOS-Based Current Mirror Circuit Using 0.35 $\mu$ m Technology”, Authors: Samir B Joshi, JC Prajapati, BH Soni, International Journal of Engineering and Innovative Technology (IJEIT) Volume 2, Publication date: 2013/4	
	14	“An Overview of Fractal Geometries and Antenna”, Authors: Dethalia Ankit Kumar Manjibhai, Jayeshkumar C Prajapati, Dipakkumar J Barasara, Journal: International Journal of Engineering and Science, Volume 1, Issue 2, Pages: 1-4, Publication date: 2012/9	
	15	“Overview of Multifrequency Fractal Antenna “, Authors: Dipakkumar, J Barasara, Prof. Jayeshkumar C. Prajapati, Ankitkumar M. Dethalia, International Journal of Scientific & Engineering Research, Volume 3, Issue 7, Publication date: 2012/7	
	16	“Multifrequency fractal antenna” Authors: Dipakkumar J Barasara, Jayeshkumar C Prajapati, Ankitkumar M Dethalia International Journal of Scientific & Engineering Research, Volume 3, Issue 8, Publication date: 2012	
	17	“Low Noise Amplifier Design”, Authors: Archana Solanki, J.C. Prajapati National Conference on Advances and Challenges in Engineering & Science2012 Volume 1, Publication date: 2012/4/13	
	18		
<b>13</b>	<b>Projects Carried out</b>	-	
<b>14</b>	<b>Patent: 01</b>	Detachable Anti-Splashing Disc for Automobiles. Date of issue 19/10/202 Design No. 364626-001 Date 23/05/2022	
<b>15</b>	<b>No. of Books published with details</b>		

<b>16</b>	<b>Trainings:</b>		
	Sr. No	Title	Organized By
	1	Spectrum of Electronics and Communication Engineering and Emerging Technologies	DTE Gandhinagar
	2	Induction Phase-I	NITTTR Ahmedabad Centre
	3	Induction Phase-II	NITTTR Bhopal
	4	Satellite and Mobile Communication	NITTTR, Bhopal
	5	Blockchain Technology and Cryptocurrency	Government Engineering College, Patan, DTE Gujarat Institute
	6	Microwave Integrated Circuits.	MOOC, NPTEL
	7	Futuristic Innovations on Solar Energy Technologies	Government Engineering College, Patan, DTE Gujarat Institute
	8	Digital Circuit Designing using Multisim	NITTTR, Bhopal
	9	Optical Wireless Communications for Beyond 5G Networks and IoT	MOOC, NPTEL
	10	Solar Photovoltaics Fundamentals, Technology and Applications	MOOC, NPTEL
	11	Recent Developments in RF and Antenna Design for Various Applications	Government Engineering College, Rajkot, DTE Gujarat Institute
	12	Intellectual Property	MOOC, NPTEL
<b>17</b>	<b>Memberships</b>		
	<ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• The International Association of Electrical, Electronic and Energy Engineering</li> </ul>		

- |  |  |
|--|--|
|  | <p>(IAEEEE), Membership number:71050272</p> <ul style="list-style-type: none"><li>• International Association of Engineers (IAENG), Membership number: 307740.</li></ul> |
|--|--|

<b>1</b>	<b>Name</b>	Shyamkumar Amrutlal Pankhaniya							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	shyam.pankhaniya@gecpantan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.E.							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Deep learning, Image Processing							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Testing Engineer	Systronics Telerad Pvt.Ltd., Ahmedabad	20/04/2006 to 19/05/2011	05 years, 01 Months					
2	Assistant Professor	School of Engineering, RK University, Rajkot	20/05/2011 to 25/08/2021	10 years, 03 Months					
3	Assistant Professor	Government Engineering college, Patan	26/08/2021 to 24/04/2025	03 years, 08 Months					
	<b>Research</b>								
1									
2									
	<b>Industry</b>								
1									
2									
	<b>Others</b>								
1									
2									
<b>9</b>	<b>Subjects teaching at UG Level</b>	Analog Circuit Design, Digital Electronics, Network theory, Python programming etc.							
<b>10</b>	<b>Subjects teaching at PG Level</b>								
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D. :</li> <li>● PG Students :</li> </ul>								

<b>12</b>	<b>Papers Publications:</b>																									
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<b>1</b>	<b>Name</b>	Mehul L. Patel				
<b>2</b>	<b>Post</b>	Assistant Professor				
<b>3</b>	<b>Email</b>	<a href="mailto:mehul.patel@gecpatan.ac.in">mehul.patel@gecpatan.ac.in</a>				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	M.Tech				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specializations</b>	VLSI Design				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	<b>Teaching</b>					
1	Lecturer	S.S.P.C, Visnagar	From 29 <sup>th</sup> July 2002 to 30 <sup>th</sup> April 2003	09 Months		
2	Lecturer	S.S.P.C, Visnagar	From 1 <sup>st</sup> July 2003 to 13 <sup>th</sup> April 2004	09 Months		
3	Lecturer	L.C.I.T, Bhandu, Mehesana	From 1 <sup>st</sup> July 2004 to 30 <sup>th</sup> April 2005	10 Months		
4	Lecturer	L.C.I.T, Bhandu, Mehesana	From 2 <sup>nd</sup> May 2005 to 22 <sup>nd</sup> August 2008	3 years, 03 Months		
5	Assistant Professor	L.C.I.T, Bhandu, Mehesana	From 23 <sup>rd</sup> August 2008 to 30 <sup>th</sup> June 2015	06 years, 10 Months		
6	Assistant Professor	F.O.T, M.E.F.G.I, Rajkot	From 1 <sup>st</sup> July 2015 to 30 <sup>th</sup> May 2017.	1 years, 09 Months		
7	Assistant Professor	Government Engineering College, Patan	From 13 <sup>th</sup> July 2017 to Till Date	8 years, 06 Months		
	<b>Research</b>					
1						
2						
	<b>Industry</b>					
1						
2						
	<b>Others</b>					
1						

	2																																																
<b>9</b>	<b>Subjects teaching at UG Level</b>	VLSI Design, Computer Network, Basic Electronics, Linear Integrated Circuit.																																															
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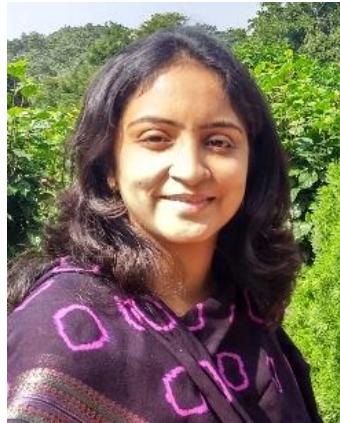
		20/07/2022		
11.	Fundamentals Of Artificial Intelligence	DTE & NPTEL	2 Week	
12.	Yoga and Positive Psychology for Managing Career and Life	DTE & NPTEL	1 Week	
13.	The Science of Happiness and Wellbeing	DTE & NPTEL	1 Week	
14.	Semiconductor Technology and Manufacturing (with Hands-on Training)	DTE & IIT, Bombay	1 Week	
15.	A Vision for India to Lead in Semiconductor R & D and Manufacturing(What,Why & How)	GTU & DTE	1 Day	
16.	Semiconductor Chip Design and Application	BVM,Vallabh Vidyanagar	1 Week	
17.	RF and Microwave Systems: Applications and Future Research	SR University, Warangal	1 Day	
18.	Leadership Development for Governance and Management of the Institute	TEERTH,KCG, Education Department, Government of Gujarat	1 Day	
19.	Practical Techniques For Enhancing Psychological Well-Being	TEERTH,KCG, Education Department, Government of Gujarat	1 Day	
20.	Building AI Awareness & Readiness among Staff	Technical Education and coordinated from KCG, Ahmedabad	1 Day	
21.	LaTeX for Academics An Introduction to "LaTeX"	TEERTH,KCG, Education Department, Government of Gujarat	1 Day	
22.	The Science Behind Monsoon How It Affects Our Lives	TEERTH,KCG, Education Department, Government of Gujarat	1 Day	
23.	The Art of Living in Harmony with Family,Society and Nature	DTE	1 Week	
24.	From Vision to Velocity: Workforce Development for the Semiconductor Leap	DTE, Ganpat University	1 Day	
17	<b>Membership</b>			

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• Life Member of IETE (Institute of Electronics and Telecommunication Engineers).<ul style="list-style-type: none"><li>○ Membership Number: <b>M 221178</b></li></ul></li><li>• Life Member of ISTE (Indian Society for Technical Education).<ul style="list-style-type: none"><li>○ Membership Number: <b>LM 46100</b></li></ul></li></ul> |
|--|---|

<b>1</b>	<b>Name</b>	Roshniben Abherajbhai Chaudhari							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	Roshni.chaudhari@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.E (Pursuing Ph.D)							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Antenna and Wave Propagation, Microwave Engineering							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	1	Assistant Professor	Government Engineering College, Patan	19-08-2017 onwards	08 Years and 05 Months				
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1								
	2								
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	1								
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<b>9</b>	<b>Subjects teaching at UG Level</b>	Digital System Design, Basic Electronics							
<b>10</b>	<b>Subjects teaching at PG Level</b>	--							
<b>11</b>	<b>Research Guidance(count)</b>			<ul style="list-style-type: none"> <li>● <b>Ph.D. : 00</b></li> <li>● <b>PG Students : 00</b></li> </ul>					
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	2	ML4Beats: A Hypertuning-Based Approach Towards Enhancement in Accuracy of Heart Disease Prediction Using Machine Learning, Krunal C Suthar, Harshad L Chaudhary, Roshani A Chaudhary, Yogesh B Patel, International Journal of Intelligent Systems And Applications In Engineering, ISSN:2147-6799.	
13	Projects Carried out	00	
14	Patents	00	
15	<b>No. of Books published with details</b>		
	<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>		
16	<b>Trainings:</b>		
Sr. No	Title	Organized By	Duration
	"Electromagnetic, Microwave, RF and Antenna Design using Ansys HFSS Tool flow"	Birla Vishwakarma Mahavidyalay, Vallabh Vidyanagar	04-06-2018 to 09-06-2018
	Intellectual Property Rights	i-Hub, Ahmedabad	6-7-2020 to 14-9-2020
	Induction Phase - I	NITTTR- Bhopal	12-10-2020 to 23-10-2020
	Blockchain Technology and its Application in Internet of things	SVNIT Surat	07-12-2020 to 11-12-2020
	Induction Phase- II	NITTTR- Bhopal	21-6-2021 to 2-7-2021
	Work Ethics, Motivational climate and Attitude Development	NITTTR, Bhopal	11-10-2021 to 15-10-2021-
	Teach to Transform: Advancing Pedagogical Practices for Faculty of Technical Education (BVM 24 1)	Birla Vishwakarma Mahavidyalay, Vallabh Vidyanagar	17-06-2024 to 28-06-2024
	Fundamentals of Semiconductor package manufacturing and test	GTU and Micron	15-5-2024 to 15-6-2024
	Industrial Training	Mehsana dairy and Food Products LTD	15-7-2024 to 26-7-2024
	Semiconductor Chip design and Application	Birla Vishwakarma Mahavidyalay, Vallabh Vidyanagar	25-11-2024 to 30-11-2024
	Intellectual Property	MOOC	Jan-Apr 2025

<b>17</b>	<b>Membership</b>

1	Name	Anju Murlibhai Vasdewani									
2	Post	Assistant Professor									
3	Email	amvgc@gmail.com									
4	Date of Birth										
5	Educational Qualification	B.E.(E.C.), M.E.(E.C.)									
6	Webpage	-									
7	Work Experience	<table border="1"> <tr> <td>Teaching</td><td>20 Years</td></tr> <tr> <td>Research</td><td>-</td></tr> <tr> <td>Industry</td><td>-</td></tr> <tr> <td>Others</td><td>-</td></tr> </table>	Teaching	20 Years	Research	-	Industry	-	Others	-	
Teaching	20 Years										
Research	-										
Industry	-										
Others	-										
Details:-											
Sr. No.	Institute	Period	Experience								
1	Atmiya Institute of Technology & Science, Rajkot	Jan 2006 to June 2013	7 Years 6 months								
2	V.V.P. Engineering College, Rajkot	July 2013 to Nov 2021	8 Years 5 months								
3	Government Engineering College, Patan	Dec 2021 to till date	4 Years 2 months								
8	Area of Specializations	Electronics & Communication									
9	Subjects teaching at UG Level	Microprocessor and Microcontroller, Advanced Microcontroller, Web Technology, Digital System Design, Signals and System Analog & Digital Communication									

10	Subjects teaching at PG Level	-								
11	Research Guidance	<table border="1"> <tr> <td>Master's Degree</td><td>-</td></tr> <tr> <td>Ph.D.</td><td>-</td></tr> </table>	Master's Degree	-	Ph.D.	-				
Master's Degree	-									
Ph.D.	-									
12	No. of Research papers published	<table border="1"> <thead> <tr> <th>Category of Journals</th><th>Total</th></tr> </thead> <tbody> <tr> <td>National Journals</td><td>0</td></tr> <tr> <td>International Journals</td><td>2</td></tr> <tr> <td>Conferences</td><td>0</td></tr> </tbody> </table>	Category of Journals	Total	National Journals	0	International Journals	2	Conferences	0
Category of Journals	Total									
National Journals	0									
International Journals	2									
Conferences	0									
<b>Published in International Journal</b>										
Sr. No.	Paper Title									
1	Microcontroller 8051 based accident alert system using MEMS Accelerometer, GPS and GSM Technology”									
2	Performance analysis of time delay for gunshot direction detection system									
3	Experimental Astronomical Telescope Dew Removal System with Temperature Feedback and Monitoring on IoT.									
4	“Implementation of segmented current steering digital to analog converter using memory less pipeline dynamic design technique”									
<b>Published in National Journal</b>										
Sr. No	Paper Title									
-	-									
13	Projects Carried out	-								
14	Nos. of consultancy project	-								

15	Patents	-								
16	Technology Transfer	-								
17	No. of Books published with details									
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Title</th> <th>Publisher</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Sr. No.	Title	Publisher	Year	-	-	-	-
Sr. No.	Title	Publisher	Year							
-	-	-	-							
18	Training									

Sr. No.	Training Title
1	STTP on “Embedded Systems Enhanced with IoT using Raspberry Pi”
2	STTP on “Digital Signal Processing”
3	STTP on “Recent Trends in Android based Mobile Applications Development”
4	STTP on “IoT and Micropython”
5	STTP on “Teaching with matlab and simulink”
6	STTP on “Emerging Trends in Mobile Communication”
7	MOOC course on “Digital Circuits and Systems”
8	MOOC course on “Introduction to Embedded System Design”
9	MOOC course on “Problem Solving through Programming in C”
10	MOOC course on “Hardware modeling using verilog”
11	MOOC course on “Introduction To Programming In C”
12	MOOC Course “Introduction to Internet of things”
13	FDP on “Fundamentals of Semiconductor Package Manufacturing & Test”
14	ATAL FDP on “Artificial Intelligence in IoT and Aerial Robotics”
15	MOOC on “Embedded System Design with ARM”
16	ATAL FDP on “Machine learning on industrial IoT”
19	Seminar

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2	Workshop on Internet of Things : A hands on approach														
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6	Seminar on “Intellectual Property Rights( IPR) and Patents”														
20	Membership														
	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Community Title</th></tr> </thead> <tbody> <tr> <td>1</td><td>Indian Society for Technical Education</td></tr> </tbody> </table>	Sr. No.	Community Title	1	Indian Society for Technical Education										
Sr. No.	Community Title														
1	Indian Society for Technical Education														

### **Science and Humanities Department**

Sr. No.	Name	Post	Appointment is approved by university [Letter Number]
<b>Branch: Science and Humanities</b>			
1	Dr. V.P.Soni	Assistant Professor	ક્રમાંક : જીછસી/નિમણૂક/સ.પ્રા.ગણિત/૨૦૧૧/ધ-૨/૧૩૮૧૬૭ તા:૩૦/૦૪/૨૦૧૧
		Associate Professor	Letter No.ED/0811/04/2025 Dt22/04/2025
2	Dr. A.K.Chaudhari	Assistant Professor	ક્રમાંક: જીછસી/નિમણૂક/સ.પ્રા.ભૌતિક/૨૦૧૧/ધ-૨/૧૪૨૨૭ તા:૩૦/૦૪/૨૦૧૧
3	Dr. H.S.Bhutadia	Assistant Professor	ક્રમાંક : જીછસી/નિમણૂક/સ.પ્રા. ભૌતિક /૨૦૧૧/ધ-૨/૧૪૨૨૭ તા:૩૦/૦૪/૨૦૧૧
4	Dr. B.S.Patel	Assistant Professor	ક્રમાંક : જીછસી/સી.ભ./સહા.પ્રા./ ગણિતશાસ્ત્ર /૨૦૧૮/ધ-૨/૧૩૮૪૮ તા:૧૭/૦૮/૨૦૧૮

## Faculty Profile

<b>1</b>	<b>Name</b>	Vijay P. Soni							
<b>2</b>	<b>Post</b>	Associate Professor							
<b>3</b>	<b>Email</b>	Vijay.soni@gecpanan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	PhD							
<b>6</b>	<b>Webpage</b>	-							
<b>7</b>	<b>Area of Specializations</b>	Fuzzy set							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	1	Lecturer	Sankalchand Patel College of Engineering, Visnagar	3-12-2004 To 25-5-2011	06 years, 06 Months				
	2	Assistant Professor	Government Engineering College, Patan	26/05/2011 to 22/04/2025	10 years, 11 Months				
	4	Associate Professor	Government Engineering College, Patan	23/04/2025 onwards					
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1								
	2								
	<b>Others</b>								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	MATHEMATICS-1, AMTHEMATICS-2							
<b>10</b>	<b>Subjects teaching at PG Level</b>	-							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D. : 0</li> <li>● PG Students : 0</li> </ul>								
<b>12</b>	<b>Papers Publications:</b>								

	<b>Sr. No.</b>	<b>Publication Details</b>																				
1		Fixed Point Theorems And Common in Fuzzy 2-Metric Spaces																				
2		Fixed Point Theorems & Common in Fuzzy 3-Metric Spaces																				
3		Applications of The Laplace Transform and Differential Equation For RLC Circuit																				
4		Solution of Fuzzy Equations For Triangular Fuzzy Number																				
5		Fuzzy Set As a Group																				
6		Solution of Fuzzy Algebraic Equations For New Fuzzy Number																				
7		Finite Additive Fuzzy Group, Finite Multiplicative Fuzzy Group and Finite Fuzzy Field																				
8		Fuzzy Number -A New hypothesis and Solution of Fuzzy Equations																				
9		Fuzzy Additive and Fuzzy multiplicative Group																				
10		Application of The Probability Theory To Study of A Transportation Problem of An Essential Item From Various Origins To Different Destinations																				
11		A study of finite fuzzy group, finite fuzzy field and finite fuzzy vector space																				
12		Mathematical Analysis of the Performance of A Longitudinally Rough Finite Porous Plane Slider Bearing																				
13		Enhancing Urban Mobility: Impacts of Traffic Analysis and Mitigation Strategies at Intersections- A case study																				
14		Fuzzy Number – A New Hypothesis and Solution of Fuzzy Equations																				
15		Composition of an Algebraic Structure from Fuzzy Set Through Binary operation																				
<b>13</b>	<b>Projects Carried out</b>																					
<b>14</b>	<b>Patents : 0</b>																					
<b>15</b>	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>• Book1 : DISCRETE MATHEMATICS</li> <li>• Book2 : ENGINEERING MATHEMATICS-III</li> </ul>																				
<b>16</b>	<b>Trainings:</b>	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Title</th> <th>Organized By</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FLUID DYNAMICS</td> <td>ISTE</td> <td>30-12-2013 To 3-1-2014</td> </tr> <tr> <td>2</td> <td>INDUCTION TRAINING PROGRAMME PHASE-I</td> <td>NITTR</td> <td>26-5-2014 To 6-6-2014</td> </tr> <tr> <td>3</td> <td>MATHEMATICAL MODELLING AND NUMERICAL COMPUTATION USING MATLAB</td> <td>QIP</td> <td>9-2-2015 To 13-2-2015</td> </tr> <tr> <td>4</td> <td>INDUCTION PHASE-II</td> <td>NITTR</td> <td>6-7-2015 To 17-7-2015</td> </tr> </tbody> </table>	Sr. No	Title	Organized By	Duration	1	FLUID DYNAMICS	ISTE	30-12-2013 To 3-1-2014	2	INDUCTION TRAINING PROGRAMME PHASE-I	NITTR	26-5-2014 To 6-6-2014	3	MATHEMATICAL MODELLING AND NUMERICAL COMPUTATION USING MATLAB	QIP	9-2-2015 To 13-2-2015	4	INDUCTION PHASE-II	NITTR	6-7-2015 To 17-7-2015
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2	INDUCTION TRAINING PROGRAMME PHASE-I	NITTR	26-5-2014 To 6-6-2014																			
3	MATHEMATICAL MODELLING AND NUMERICAL COMPUTATION USING MATLAB	QIP	9-2-2015 To 13-2-2015																			
4	INDUCTION PHASE-II	NITTR	6-7-2015 To 17-7-2015																			

	5	MMOFCCES-2016	NIT	21-6-2016 To 25-6-2016	
	6	INTRODUCTION TO BOUNDARY ELEMENT METHOD	ISTE	9-1-2017 To 13-1-2017	
	7	LaTex For Academic Writing	TEQIP-II	20-03-2017 To 24-03-2017	
	8	Research methodology and technical communications	TEQIP-II	5/3/2018 to 9/3/2018	
	9	Application of Mathematics in science and Engineering	NITTTR	11/13/2017 to 11/17/2017	
	10	Comprehensive online intellectual properties rights(IPR)	Online	6/6/2020 to 9/14/2020	
	11	RECENT TRENDS IN APPLIED SCIENCES AND ITS APPLICATIONS IN ENGINEERING	TEQIP-II	8/30/2016 to 8/30/2016	
	12	INDUSTRIAL MATHEMATICS AND SCIENTIFIC COMPUTING	LDCE, AHMEDABAD	12/16/2019 to 12/25/2019	
	13	UDYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning)	online	7/28/2020 to 8/18/2020	
	14	Partial Differential Equation For Engineers: Solution by separation of variables	MOOC	1/18/2021 to 2/12/2021	
	15	Matrix Analysis With Applications	MOOC	8/23/2021 to 10/15/2021	
	16	Transform Calculus And Its Applications In Differential Equations	MOOC	1/24/2022 to 4/15/2022	
	17	Mathematics For Economics-1	MOOC	7/25/2022 to 10/14/2022	
	18	Laplace Transform	MOOC	7/24/2023 to 8/12/2023	
	19	Matrix Computations And Its Application	MOOC	7/24/2023 to 10/13/2023	
	20	Advance Research Methodology &	GEC, PATAN	22-03-2021 to 3/26/2021	

		Analytics (ARMA-2021)		
21	Introduction to probability and Statistics	MOOC	20-01-2025 to14-02-2025	
22	MEHSANA DAIRY AND FOOD PRODUCTS LTD	Industrial training	24-06-2024 TO 07-07-2024	
23	LEAK PROOF ENGINEERING PVT. LTD	Industrial training	15-07-2024 TO 29-07-2024	
<b>17</b>	<b>Membership</b>			
	<ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• Gujarat Ganit Mandal</li> </ul>			

<b>01</b>	<b>Name</b>	Ashok K. Chaudhari						
<b>02</b>	<b>Post</b>	Assistant Professor						
<b>03</b>	<b>Email</b>	Ahok.chaudhari@gecpan.ac.in						
<b>04</b>	<b>Date of Birth</b>							
<b>05</b>	<b>Educational Qualification</b>	Ph.D.						
<b>06</b>	<b>Webpage</b>	.....						
<b>07</b>	<b>Area of Specializations</b>	Atomic and Molecular Physics						
<b>08</b>	<b>Work Experience:</b>							
	<b>Sr. No.</b>	<b>Position</b>	<b>Organization</b>	<b>Period</b>	<b>Experience</b>			
	<b>Teaching</b>							
	1	Assistant Teacher	Shree J.M.C. Sarvjanik Vidyalay	07/02/2005 to 06/05/2011	06 years, 03 Months			
	2	Assistant Professor	Government Engineering College, Patan	07/05/2011 to till date				
	<b>Research</b>							
	1							
	2							
	<b>Industry</b>							
	1	NIL						
	2							
	<b>Others</b>							
	1	NIL						
	2							
<b>09</b>	<b>Subjects teaching at UG Level</b>	Physics						
<b>10</b>	<b>Subjects teaching at PG Level</b>	NA						
<b>11</b>	<b>Research Guidance(count)</b>							
	<ul style="list-style-type: none"> <li>● Ph.D. : NIL</li> <li>● PG Students : NIL</li> </ul>							
<b>12</b>	<b>Papers Publications:</b>							
	<b>Sr. No.</b>	<b>Publication Details</b>						
	1	.Harshad Bhutadia, <b>Ashok Chaudhari</b> and Minaxi Vinodkumar “Electron impact ionisation cross sections for atomic and molecular allotropes of phosphorous and arsenic” <b>Journal:</b> Molecular Physics, 113:23 (2015) 3654-3662						

	2	Chetan Limbachiya, <b>Ashok Chaudhari</b> , Hardik Desai and Minaxi Vinodkumar “Electron induced chemistry of Thioformaldehyde” <b>Journal:</b> Royal society of chemistry (RSC) Adv., 5 (2015) 103964	
	3	<b>Ashok Chaudhari</b> , Hardik Desai, Harshad Bhutadia, Chetan Limbachiyaand Minaxi Vinodkumar “Calculation of total electron-scattering cross section for tetrahydropyran, $(CH_2)_5O$ molecule. <b>Journal:</b> Prajana, Journal Of Pure and Applied Sciences Vol: 22&23:80-83 (2015) ISSN 0975-2595 ,S.P.University V.V.Nagar	
	4	D.N.Panchotia, T.K.Pathak, P.K.Rathod,D.D.Pandya.H.S.Bhutadia, <b>A.K.Chaudhari</b> “Optimization in electrical network through domination theory.” <b>Journal:</b> J.electrical System ,20-10s (2024) :198-203 (2024)	
	5	<b>A Chaudhari</b> , H Bhutadia, S Parikh, M Vinodkumar, C Limbachiya “Electron interactions with beryllium and its hydrides” <b>Journal:</b> International Journal of Mass Spectrometry 502, 117269(2024)	
	6	N Barad, <b>A Chaudhari</b> , H Bhutadia, C Limbachiya “Interaction of electrons with tetramethyl derivatives of carbon, silicon, and germanium” <b>Journal:</b> Radiation Physics and Chemistry, 13371(2025)	
	7	N Barad, A Chaudhari, H Bhutadia, C Limbachiya “Positron interactions with tetramethyl compounds – $X(CH_3)_4$ ( $X = C, Si, Ge$ )” <b>Journal:</b> Molecular Physics 124 (1), e2490713 (2026)	

13	Projects Carried out	NA	
14	Patents :	NA	
15	No. of Books published with details		
• Book1.....NIL			
16	<b>Trainings:</b>		
Sr. No	Title	Organized By	Duration
1	Writing research paper	NITTTR, Bhopal	06/01/14 to 10/01/14
2	CFD and heat Transfer	NIT Hamirpur	19/05/14 to 23/05/14
3	Induction phase I	NITTTR, Bhopal	21/07/14 to 02/08/14
4	Research Methodology	NITTTR, Bhopal	17/11/14 to 21/11/14
5	Environmental Studies	SKPCE Visnagar (ICT mode IIT Bombay)	02/06/15 to 12/06/15
6	Induction phase II	RCTI ,NITTTR Extention Center	14/12/15 to 25/12/15
7	Nano Technology and nano material applications in engineering	NITTTR, Bhopal	15/05/17 to 19/05/17
8	Simulation tools for Science Experiments	NITTTR Bhopal	04/03/19 to 08/03/19
9	Design Development and use of rubric in students Assesment	NITTTR, Bhopal	27/01/20 to 31/01/20
10	Experimental Physics III	MOOC, IIT Kharagpur	27/01/20 to 17/04/20
11	Block Chain	Atal , GEC Patan	19/10/20 to 23/10/20
12	Comprehensive online	KCG/ i Hub	06/07/20 to 14/09/20

		intellectual Property Rights(IPR)	
13	E-Content Developement course	KCG	28/07/20 to 18/08/20
14	A Brief Course on Superconductivity	MOOC,IIT Guwahati	18/01/21 to 12/02/21
15	Solid state Physics	MOOC IIT Kanpur	23/08/21 to 15/10/21
16	Student assessment	MOOC, NITTTR Bhopal	30/01/23 to 28/04/23
17	Yoga and positive psychology for managing career and life	MOOC,IIT Bombay	22/01/24 to 15/03/24
18	Industrial Training I	MDFPL, Mahesana	24/06/24 to 07/07/24
19	Industrial Training II	Leak Proof Engineering (I) ltd, Chhapi	15/07/24 to 29/07/24
20	Enhancing soft skills and personality Development	MOOC, IIT Kanpur	17/02/25 to 11/04/2025
21	Quantum Computing: Foundation to Future Avenues	LDCE Ahmedabad	19/01/26 to 23/01/2026
<b>17</b>	<b>Membership</b>	<ul style="list-style-type: none"> <li>• Indian society of Atomic and Molecular Physics (No. 1485)</li> <li>• The Indian Society for Technical Education (No.122410)</li> </ul>	

<b>01</b>	<b>Name</b>	Dr.Harshad S.Bhutadia			
<b>02</b>	<b>Post</b>	Assistant Professor			
<b>03</b>	<b>Email</b>	Harshad.bhutadiya.@gecpatan.ac.in			
<b>04</b>	<b>Date of Birth</b>				
<b>05</b>	<b>Educational Qualification</b>	Ph.D.			
<b>06</b>	<b>Webpage</b>	.....			
<b>07</b>	<b>Area of Specializations</b>	Atomic and Molecular Physics			
<b>08</b>	<b>Work Experience</b>				
	<b>Sr. No.</b>	<b>Position</b>	<b>Organization</b>	<b>Period</b>	<b>Experience</b>
	<b>Teaching</b>				
	1	Assistant Professor	Government Engineering College, Patan	04/05/2011 to till date	
	2				
	<b>Research</b>				
	1	As a junior research fellow in DST & UGC sponsored Major research projects	S.P.University	2008 to 2011	3 years
	2				
	<b>Industry</b>				
	1	NIL			
	2				
	<b>Others</b>				
	1	NIL			
	2				
<b>09</b>	<b>Subjects teaching at UG Level</b>	Physics			
<b>10</b>	<b>Subjects teaching at PG Level</b>	NA			
<b>11</b>	<b>Research Guidance(count)</b>				
	<ul style="list-style-type: none"> <li>● Ph.D. : NIL</li> <li>● PG Students : NIL</li> </ul>				
<b>12</b>	<b>Papers Publications:</b>				
	<b>Sr. No.</b>	<b>Publication Details</b>			
	1	Calculation of total ionization cross sections for halogen compounds on electron impact from threshold to 2 keV” Minaxi Vinodkumar, <b>Harshad Bhutadia</b> , Rucha Dave and Bobby Antony			

		"Indian J. Phys., <b>85</b> 1761-1766 (2011)
2		Electron-impact rotationally elastic total cross sections for H <sub>2</sub> CO and HCOOH over a wide range of incident energy (0.01–2000 eV). Physical Review A, <b>83</b> 042708 (2011).Minaxi Vinodkumar, <b>Harshad Bhutadia</b> , Bobby Antony, and Nigel Mason
3		Electron impact total ionization cross sections for H <sub>2</sub> S, PH <sub>3</sub> , HCHO and HCOOH International Journal of Mass Spectrometry <b>308</b> 35– 40 (2011) Minaxi Vinodkumar, <b>Harshad Bhutadia</b> , Chetan Limbachiya, K.N. Joshipura
4		Calculations of total and ionization cross sections on electron impact for alkali metals (Li, Na, K) from thresold to 2 keV. International Journal of Mass Spectrometry, <b>294</b> 54-58 (2010). Minaxi Vinodkumar, Kirti Korot, <b>Harshad Bhutadia</b>
5		Electron impact total ionization cross sections for halogens and their hydrides" International Journal of Mass Spectrometry, <b>292</b> 7–13 (2010).Minaxi Vinodkumar, Rucha Dave, <b>Harshad Bhutadia</b> and Bobby K. Antony
6		Electron impact calculations of total ionization cross sections for environmentally sensitive Diatomic and Triatomic molecules from threshold to 5 keV. J. Phys. B., <b>43</b> 015203 (2010).Minaxi Vinodkumar, Chetan Limbachiya and <b>Harshad Bhutadia</b>
7		Theoretical Investigation of Electron Impact Total Ionization Cross Sections for N(CH <sub>3</sub> ) <sub>3</sub> , NH(CH <sub>3</sub> ) <sub>2</sub> , NH <sub>2</sub> CH <sub>3</sub> , P(CH <sub>3</sub> ) <sub>3</sub> , PH(CH <sub>3</sub> ) <sub>2</sub> , and PH <sub>2</sub> CH <sub>3</sub> Molecules. Journal of the Korean Physical Society, <b>59</b> , 2873-2876 (2011). <b>Harshad Bhutadia</b> and Minaxi Vinodkumar
8		Electron impact ionisation cross sections for atomic and molecular allotropes of phosphorous and arsenic" . <b>Harshad Bhutadia</b> , <u>Ashok Chaudhari</u> and Minaxi Vinodkumar "Molecular Physics, 113:23 (2015) 3654-3662
9		<u>Ashok Chaudhari</u> , Hardik Desai, <b>Harshad Bhutadia</b> , Chetan Limbachiyaand Minaxi Vinodkumar "Calculation of total electron-scattering cross section for tetrahydropyran, (CH <sub>2</sub> ) <sub>5</sub> O molecule. <b>Journal:</b> Prajana, Journal Of Pure and Applied Sciences Vol: 22&23:80-83 (2015) ISSN 0975-2595 ,S.P.University V.V.Nagar
10		D.N.Panchotia, T.K.Pathak, P.K.Rathod,D.D.Pandya. <b>H.S.Bhutadia</b> , A.K.Chaudhari "Optimization in electrical network through domination theory." <b>Journal:</b> J.electrical System , <b>20-10s (2024) :198-203</b> (2024)
11		A Chaudhari, <b>H Bhutadia</b> , S Parikh, M Vinodkumar, C Limbachiya "Electron interactions with beryllium and its hydrides" <b>Journal:</b> International Journal of Mass Spectrometry <b>502</b> , 117269(2024)
12		N Barad, A Chaudhari, <b>H Bhutadia</b> , C Limbachiya "Interaction of electrons with tetramethyl derivatives of carbon, silicon, and germanium" <b>Journal:</b> Radiation Physics and Chemistry, 13371(2025)
13		N Barad, A Chaudhari, <b>H Bhutadia</b> , C Limbachiya "Positron interactions with tetramethyl compounds – X(CH <sub>3</sub> ) <sub>4</sub> (X = C, Si, Ge)" <b>Journal:</b> Molecular Physics 124 (1), e2490713 (2026)
<b>13</b>	<b>Projects Carried out</b>	NA
<b>14</b>	<b>Patents :</b>	NA

<b>15</b>	<b>No. of Books published with details</b> • Book1.....NIL		
<b>16</b>	<b>Trainings:</b>		
Sr. No	Title	Organized By	Duration
1	Induction phase I	K.D.Poly ,NITTTR Extention Center	13/05/13 to 24/05/13
2	Recent trands in Nanotechnology :application ,synthesis , cheresterization	SVNIT Surat	14/10/13 to 18/10/13
3	CFD and heat Transfer	NIT Hamirpur	19/05/14 to 23/05/14
4	Induction phase II	RCTI ,NITTTR Extention Center	15/09/14 to 26/09/14
5	Environmental Studies	SKPCE Visnagar (ICT mode IIT Bombay)	02/06/15 to 12/06/15
6	Nano Technology and nano material applications in engineering	NITTTR, Bhopal	15/05/17 to 19/05/17
7	Guidance, Councelling and Mentoring skills	NITTTR Bhopal	04/06/18 to 08/06/18
8	Low cost Laboratory experiments in applied science	NITTTR, Bhopal	25/03/19 to 29/03/19
9	Alternative sources of energy	NITTTR, Bhopal	19/08/19 to 23/08/19
10	Experimental Physics III	MOOC, IIT Kharagpur	27/01/20 to 17/04/20
11	Block Chain	Atal , GEC Patan	19/10/20 to 23/10/20
12	Comprehensive online intellectual Property Rights(IPR)	KCG/ i Hub	06/07/20 to 14/09/20
13	E-Contant Developement course	KCG	28/07/20 to 18/08/20
14	A Brief Course on Superconductivity	MOOC,IIT Guwahati	18/01/21 to 12/02/21
15	Beyonds the classroom towards the excellence	IITE Gandhinagar	17/01/20 to 23/01/20
16	Student assessment	MOOC, NITTTR Bhopal	30/01/23 to 28/04/23
17	Yoga and positive psychology for managing carrer and life	MOOC,IIT Bombay	22/01/24 to 15/03/24ss
18	Industrial Training I	MDFPL, Mahesana	24/06/24 to 07/07/24
19	Industrial Training II	Leak Proof Engineering (I) ltd, Chhapi	15/07/24 to 29/07/24
20	Enhancing soft skills and personality Development	MOOC, IIT Kanpur	17/02/25 to 11/04/2025

**17**

**Membership**

- Indian society of Atomic and Molecular Physics
- The Indian Society for Technical Education

<b>1</b>	<b>Name</b>	Dr. Bhavin S. Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	bhavin.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.Phil., Ph.D.							
<b>6</b>	<b>Webpage</b>	--							
<b>7</b>	<b>Area of Specializations</b>	Queueing Theory, Probability & Statistics							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	Teaching								
	1	Assistant Professor	Sankalchand Patel College of Engineering, Visnagar	21/06/2005 to 22/01/2019	13 years, 07 Months				
	2	Assistant Professor	Government Engineering College, Patan	18/09/2019 onwards	06 years, 04 Months				
	Research								
	1								
	2								
	Industry								
	1								
	2								
	Others								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	Mathematics - I, Mathematics – II, Probability & Statistics , Discrete Mathematics and Graph Theory, Complex Variables and Partial Differential Equations							
<b>10</b>	<b>Subjects teaching at PG Level</b>								
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D.:01</li> <li>● PG Students :</li> </ul>								

<b>12</b>	<b>Papers Publications:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sr. No.</th><th style="text-align: left;">Publication Details</th></tr> </thead> <tbody> <tr><td>1</td><td>M/M/c Queueing Model for Bed-Occupancy Management</td></tr> <tr><td>2</td><td>M/M/1 Queuing Model Applied to Waiting of Thoughts in a Human Brain</td></tr> <tr><td>3</td><td>M/M/1 Queueing Model for Bank ATM System</td></tr> <tr><td>4</td><td>Application of Queueing Theory to Cricket Test Match</td></tr> <tr><td>5</td><td>An Application of Queueing Theory to The TV Show Kaun Banega Crorepati (KBC)</td></tr> <tr><td>6</td><td>Application of Queueing Theory to ICC One Day Internationals</td></tr> <tr><td>7</td><td>ICC World Twenty20-2014 (World Cup-2014) - A Case Study</td></tr> <tr><td>8</td><td>Queueing Theory Applied to Traffic Lights in Ahmedabad</td></tr> <tr><td>9</td><td>Probabilities in the Indian Premier League (IPL) 2015 Matches by Application of Queueing Theory- A Case Study</td></tr> <tr><td>10</td><td>Probability of Sex and Expectation of Sex Ratio and Target Sex Ratio in 2051 in India</td></tr> <tr><td>11</td><td>An Alternate Approach to find an Optimal Solution of a Transportation Problem</td></tr> <tr><td>12</td><td>On Optimal Solution of a Transportation Problem</td></tr> <tr><td>13</td><td>Optimal Solution of an Assignment Problem as a Special Case of Transportation Problem</td></tr> <tr><td>14</td><td>APPLICATION OF QUEUING THEORY TO WOMEN'S ICC WORLD CRICKET</td></tr> <tr><td>15</td><td>Optimizing Transportation Problem Through Linear Constraints with Optimality</td></tr> </tbody> </table>	Sr. No.	Publication Details	1	M/M/c Queueing Model for Bed-Occupancy Management	2	M/M/1 Queuing Model Applied to Waiting of Thoughts in a Human Brain	3	M/M/1 Queueing Model for Bank ATM System	4	Application of Queueing Theory to Cricket Test Match	5	An Application of Queueing Theory to The TV Show Kaun Banega Crorepati (KBC)	6	Application of Queueing Theory to ICC One Day Internationals	7	ICC World Twenty20-2014 (World Cup-2014) - A Case Study	8	Queueing Theory Applied to Traffic Lights in Ahmedabad	9	Probabilities in the Indian Premier League (IPL) 2015 Matches by Application of Queueing Theory- A Case Study	10	Probability of Sex and Expectation of Sex Ratio and Target Sex Ratio in 2051 in India	11	An Alternate Approach to find an Optimal Solution of a Transportation Problem	12	On Optimal Solution of a Transportation Problem	13	Optimal Solution of an Assignment Problem as a Special Case of Transportation Problem	14	APPLICATION OF QUEUING THEORY TO WOMEN'S ICC WORLD CRICKET	15	Optimizing Transportation Problem Through Linear Constraints with Optimality
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4	Introduction to	NPTEL Online MOOC	Jan-Feb, 2025 (4																															

		Probability and Statistics	Course (IIT, Madras)	weeks)	
<b>17</b>	<b>Membership</b>	<ul style="list-style-type: none"> <li>• Gujarat Ganit Mandal (GGM) Life member</li> </ul>			

### **MECHANICAL ENGINEERING DEPARTMENT (JAN-2026)**

- Number of faculty employed and left during the last three years (2022-2023, 2023-24, 2024-2025)

YEAR	NON TEACHING	TEACHING	NON TEACHING (Left/Transfer)	TEACHING (Left/Transfer)
2022-23	2	19	0	0
2023-24	2	18	0	1
2024-25	2	18	0	2

- Permanent Faculty:**

Sr. No.	Name	Post	Appointment is approved by university [Letter Number]
Branch: Mechanical Engineering			
1	Dr. ANAND B. DHRUV	Professor	Government of Gujarat, Education Department, Sachivalaya, Gandhinagar, Notification- GEC- 112018-1054 -GH, Dated 31-12-2020
2	Dr. D. K. Patel	Professor	Government of Gujarat, Education Department, Sachivalaya, Gandhinagar, Notification- GEC- 112018-1054 -GH, Dated 31-12-2020
3	Dr. U. A. Patel	Associate Professor	Letter No: ED/0811/04/2025, ED/MIS/e-file/3/2023/5266/GH
4	R. O. Paliwal	Associate Professor	Letter No: ED/0811/04/2025, ED/MIS/e-file/3/2023/5266/GH
5	Dr. K. V. Patel	Associate Professor	<b>GEC/APPOINTMENT/ASST. PROF/ MECH./2011/GH-1/11562 DT. 11/04/2011</b>
6	C C Patel	Assistant Professor	ક્રમાંક: જીઈસી/નિમણુંક/સ.પ્રા.મીકે./મીકે./ ૨૦૧૧/૮-૧/૧૧૫૬૨. તા. -૧૧-૦૪-૨૦૧૧
7	Dr. M G Patel	Assistant Professor	જી ઈ સી/નિમણુંક /સ.પ્રા.મીકે./૨૦૧૧/ ૮ -૧/૧૧૫૬૨
8	D J Parmar	Assistant Professor	જી ઈ સી/નિમણુંક /સ.પ્રા.મીકે./૨૦૧૧/ ૮ -૧/૧૧૫૬૨

9	K H Thakkar	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
10	Dr. H R Prajapati	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
11	B B Patel	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
12	V K Patel	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
13	N R Makvana	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
14	R A Oza	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
15	Dr. H N Panchal	Assistant Professor	જીડીસી/સીબ/સહા.પ્રા/મિકેનીકલ/2016/ધ-1/15061
16	C P Kadiya	Assistant Professor	જીડીસી/એડ.વ્યા.મીકેનીકલ/૨૦૦૮/ધ-૧/૫૨૧૭૮
17	K K Rabari	Assistant Professor	નં:સીટીઈ/૨૦૧૨/ઇજનેરી કોલેજ/કરારભરતી/૨૬૩૬૬ તારીખ:૦૩/૧૦/૨૦૧૨
18	Dharmesh K. Patel	Assistant Professor	નં:સીટીઈ/૨૦૧૪/ઇજનેરી કોલેજ/કરારભરતી/૨૪૬૭૫ તારીખ:૨૦/૧૦/૨૦૧૪

<b>1</b>	<b>Name:</b>	ANAND BHANUPRASAD DHRUV	
<b>2</b>	<b>Post:</b>	PROFESSOR	
<b>3</b>	<b>Date of Birth :</b>		
<b>4</b>	<b>Email:</b>	dhruv_30@rediffmail.com	
<b>-5</b>	<b>Webpage:</b>		
<b>6</b>	<b>Educational Qualification:</b>	<b>PH.D.</b>	
<b>7</b>	<b>Work Experience:</b>	Teaching: 26 Research: 12 Industry: 1 Others :	
S.No.	Institute	Period	Experience
1	L E COLLEGE,MORBI	24-02-1995 TO 31-03-2000	05 YR
2	L D COLLEGE OF ENGG	1-4-2000 TO 1-8-2008	08 YR
3	GEC, MODASA	2-8-2008 TO 27-5-2015	07YR
4	VGEC, CHANDKHEDA	28-05-2015TO 18-1-2021	05.5 YR
5	GEC, PATAN	19-1-2021 TO TILL DATE	
<b>8</b>	<b>Area of Specializations:</b>	<b>Cad/cam, manufacturing, automobile</b>	
<b>9</b>	<b>Subjects teaching at Under Graduate Level:</b>	<b>CAD,AUTOMOBILE ENGG, METAL FORMING</b>	
<b>10</b>	<b>Post Graduate Level:</b>	-----	
<b>11</b>	<b>Research guidance:</b>	Master's Degree : 02	
		Ph.D.: 05	
<b>12</b>	<b>No. of Research papers published:</b>	National Journals :	
		International Journals :	
		Conferences :	
<b>Published in International Journal</b>			
1			
2			
3			
4			

	<b>Published in National Journal</b>
5	
6	
7	

<b>12</b>	Projects Carried out:	-----
<b>13</b>	Nos. of consultancy project:	-----
<b>14</b>	Patents:	-----
<b>15</b>	Technology Transfer	-----
<b>16</b>	No. of Books published with details:	
	Title	Publisher
<b>17</b>	Training:	
1	Intensive course on Bulk Forming Processes	
2	Manufacturing And Automation	
3	MICRO MANUFACTURING	
4	SHEET METAL DESIGN	
5	WIND POWER BASICS	
6	Quality Management System/Quality Technology Tools For Technical Teachers	
7	Finite Element Analysis and its application	
8	CAD, Advance Simulation And Manufacturing Using Nx Software	
9	Applications of artificial intelligence in mechanical engineering	
10	Advance welding and weld testing technique	
11	Advances in refrigeration and a/c	
12	Application Of Renewable Enrgy Sources	
13	Alternative flues and emission control	
14	Solar Architecture	
15	Design methodology	
<b>18</b>	Seminar:	
1	Workshop on measurement techniques in turbomachines	
2	GOVT. PURCHASE AND STORES	
<b>19</b>	Membership:	INSTITUTE OF ENGINEERS (I) ,SAE,ISTE

<b>1</b>	<b>Name:</b>	Dr. D.K.Patel		
2	Post:	Professor		
3	Date of Birth :			
4	Email:	dkpatel09@gmail.com		
5	Webpage:			
6	Educational Qualification:	PhD, Mechanical Engineering		
7	Work Experience:	Teaching: 24 Years		
		Research:		
		Industry: 02 Years		
		Others :		
		.		
S.No.	Institute	Period	Experience	
1	Vishvakarma Govt. Engg. College, ChandKheda.	22-11-1996 To 16-11-2004	8 Years	
2	Govt. Engg. College, Patan.	17-11-2004 To Continue	16 Years	
3				
4				
5				
<b>8</b>	<b>Area of Specializations:</b>	<b>Solar Energy</b>		
<b>9</b>	Subjects teaching at Under Graduate Level:	<b>Renewable Energy Engineering, Oil Hydraulics &amp; Pnematics, Organizational Behaviour, Engineering Economics and Management.</b>		
<b>10</b>	Post Graduate Level:	-----		
<b>11</b>	Research guidance:	Master's Degree : -----		
		Ph.D.: ----- 6 (Six). PhD Scholars		
<b>12</b>	No. of Research papers published:	National Journals : 0		
		International Journals : 6		
		Conferences : 5		
<b>Published in International Journal</b>				
1	Theoretical and experimental performance analysis of sandstones and marble pieces as thermal energy storage materials inside solar stills H Panchal, DK Patel, P Patel International Journal of Ambient Energy 39 (3), 221-229			
2	Solar energy utilisation for milk pasteurisation: A comprehensive review H Panchal, R Patel, S Chaudhary, DK Patel, R Sathyamurthy, ... Renewable and Sustainable Energy Reviews 92, 1-8			
3	A review on compound parabolic solar concentrator for sustainable development DK Patel, PK Brahmbhatt, H Panchal International Journal of Ambient Energy 39 (5), 533-546			
4	Annual performance analysis of a single-basin passive solar still coupled			

		<u>with evacuated tubes: comprehensive study in climate conditions of Mahesana, Gujarat</u> H Panchal, R Sathyamurthy, AK Pandey, M Kumar, T Arunkumar, ... International Journal of Ambient Energy 40 (3), 229-242
	5	<u>Analysis and Performance Investigations on a Solar Air Heater with Compound Parabolic Concentrator</u> DKPPK Brahmbhatt International Journal on Recent and Innovation Trends in Computing and Communication ,
	6	<u>Thermal analysis of compound parabolic concentrator</u> DS Patel, DK Patel Int. J. Mech. Prod. Eng. Res. Dev 5 (6), 117-126
	7	<u>Numerical investigation of blade tip with different groove effect and its dynamic analysis of axial flow fan</u> J Vala, DK Patel, H Panchal International Journal of Ambient Energy, 1-9.
<b>Published in National Journal</b>		
		-----

<b>12</b>	Projects Carried out:	-----
<b>13</b>	Nos. of consultancy project:	-----
<b>14</b>	Patents:	(1) Headgear with air conditioning system Application Number :- 201921013727 A, 2019.
<b>15</b>	Technology Transfer	-----
<b>16</b>	No. of Books published with details:	
	Title	Publisher
<b>17</b>	Training:	
	1	Concurrent Engg. For product life cycle cost reduction, Nirma Institute of Technology. Ahmedabad.
	2	Essential HRD skills for Technical Teachers, Shanmuga Arts, Science,Technology and Reserch Acadeny (ASTRA).
	3	Industrial Hydraulics, Centre for research and industrial staff performance.
	4	Reliability Centred Maintenance, National Institute of Technology, Hamirpur(H.P).
	5	CAD using Pro-e, NITTR,Chandhigarh.
	6	Recent Trends in Nano Composite, IIT. Kanpur.

	7	Computational fluid Dynamics & Heat Transfer,L.D.College Of Engg. Ahmedabad.
	8	Engineering Drawing using CAD,Indo-US collaboration for Engineering Education.
	9	Advanced Quality Management Philosophies and Techniques S.V.National Institute of Technology, Surat.
	10	Basic CNC Programming,Batlboi Ltd. Surat.
	11	Institutional Management and Networking: Leadership Programme for TEQIP-II Engineering Colleges,Indian Institute of Management, Ahmedabad.
	12	Advance Machine Design (AICTE Sponsored under QIP) VJTI Mumbai.
	13	A Winter School On Renewable Energy Sources with Emphasis on Wind and Solar Energy NITTTR Extension Centre, Ahmedabad.
	14	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR) , Gujarat Student Startup and Innovation Hub ( i - Hub ).
	15	Solar Thermal Technologies For Future Of India, GEC, Patan.
<b>18</b>	Seminar:	
	1	Art of Abstract Writing and Poster Designing, Indian Institute of Technology, Gandhinagar,
<b>19</b>	Membership:	

## Faculty Profile

<b>1</b>	<b>Name</b>	Prof. Rahul Paliwal																																																																																																													
<b>2</b>	<b>Post</b>	Associate Professor																																																																																																													
<b>3</b>	<b>Email</b>	rahul.paliwal@gecpatan.ac.in																																																																																																													
<b>4</b>	<b>Date of Birth</b>																																																																																																														
<b>5</b>	<b>Educational Qualification</b>	ME(MECHANICAL-CRYOGENIC ENGG)																																																																																																													
<b>6</b>	<b>Webpage</b>																																																																																																														
<b>7</b>	<b>Area of Specializations</b>	CRYOGENIC ENGG																																																																																																													
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<b>9</b>	<b>Subjects teaching at UG Level</b>	Heat transfer, Applied Thermodynamics																																				
<b>10</b>	<b>Subjects teaching at PG Level</b>	Cryogenic Fundamentals, Vacuum Engg, CryoPlants and Equipments																																				
<b>11</b>	<b>Research Guidance(count)</b> ● PG Students : 15																																					
<b>12</b>	<b>Papers Publications:</b> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Publication Details</th></tr> </thead> <tbody> <tr> <td>1</td><td>Design and Analysis of Contactless Support in Multi-Channel Cryoline using Magnetic Levitation Sandeep Kumar Shah1,* , Dr R G Kapadia1, R O Paliwal1 1Department of Cryogenics Engineering, L D College of Engineering, Ahmedabad-380015, Gujarat, India</td></tr> </tbody> </table>		Sr. No.	Publication Details	1	Design and Analysis of Contactless Support in Multi-Channel Cryoline using Magnetic Levitation Sandeep Kumar Shah1,* , Dr R G Kapadia1, R O Paliwal1 1Department of Cryogenics Engineering, L D College of Engineering, Ahmedabad-380015, Gujarat, India																																
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<b>13</b>	<b>Projects Carried out</b>	<b>nil</b>																																				
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	9	RECENT TRENDS IN COMPOSITE MATERIAL	SVNIT	1 week	
	10	FACULTY DEVELOPMENT FOR INSTITUTE REFORMS	LDCE	1 week	
	11	ENERGY MANAGEMENT	IIT	1 week	
	12	DYNAMICS AND CONTROL OF ROBOTS	IIT ROORKEE	1 week	
	13	SHEET METAL DESIGM	LDCE	1 week	
	14	COPMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER	LDCE	1 week	
	15	NUCLEAR POWER ENGINEERING	SVNIT	1 week	
	16	QUALITY TOOLS	NITTTR,AHMEDABAD	1 week	
	17	DEVELOPMENT OF POS & PEOS	NITTTR,AHMEDABAD	2 weeks	
	18	Modelling, Analysis and Automation in Engineering	LDCE	2 weeks	
<b>17</b>	<b>Membership</b>				
	<ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• ISHRAE membership</li> <li>• Member of Indian Cryogenic Council</li> </ul>				

## Faculty Profile

	<b>Name</b>	UTKARSHKUMAR ARVINDBHAI PATEL				
<b>2</b>	<b>Post</b>	Associate Professor				
<b>3</b>	<b>Email</b>	Utkarshkumar.patel@gecpatan.ac.in				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	PhD				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specializations</b>	Machine Design, Dynamics, Robotics				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	Teaching					
1	Asso Prof.	GEC Patan	24/05/25 to till date	8 months		
2	Assistant Professor	L D College of Engg	4/6/2011 to 23/5/25	14 years		
3	Assistant Professor	U V Patel college	25/2/2005 to 3/6/2011	6 years		
4	Lecturer	Lecturer	1-10-1999 to 24/2/2005	5 yers		
	Research					
1						
2						
	Industry					
1						
2						
	Others					
1						
2						
<b>9</b>	<b>Subjects teaching at UG Level</b>	Machine Design, CAD, Dynamics of Machine, KOM,EGD, Robotics				
<b>10</b>	<b>Subjects teaching at PG Level</b>	Machine Design, CAD, Optimization, Advance Machine Design, Rapid Prototyping, Robotics				

**11**

**Research Guidance(count)**

- **Ph.D.** : 01 , 2(pursing)
- **PG Students** : 10

**12**

Papers Publications:

International Journals:

- 1.Utkarshkumar A. Patel , S.H. Upadhyay "Theoretical Model to Predict the Effect of Localized Defect on Dynamic Behavior of Cylindrical Roller Bearing at Inner Race and Outer Race" Feb,2014 Proc. IMechE. Part K Journal of Multi-body Dynamics, SAGE PUBLICATION Vol 228(2), pp 152-171(Impact Factor 0.69) ISSN 1464-4193
- 2.Patel Utkarshkumar. A., Upadhyay S.H. "An Analytical Model (7d.o.f) for the Prediction of the Vibration Response of Cylindrical Roller Element Bearings Due to a Combined Localized Defect March 2015 "Proc. IMechE. K Journal of Multi-body Dynamics, SAGE PUBLICATION (Impact Factor 0.7) ISSN 1464-4193
- 3.Patel Utkarsh A," Effect of localized defect on inner race of cylindrical roller bearing on vibration behavior of rotor bearing system" Journal of Tribology and Surface Engineering, Nova Publisher vol-3, pp 3-4.
- 4.Prajapati A., Utkarsh A Patel" A review of dynamic behavior of rotor roller bearing system with bearing defect", Global research analysis, vol 2, issue 4, 2013-ISSN 2277-8160
- 5.Utkarsh A. Patel, Amit S. Patel" A review of effects of parameters and geometric imperfection on nonlinear dynamic behavior of a rotor supported by rolling element bearing" International Journal of Emerging technology and application in engg technology and science. Issue 2, volume 4, july 2011, ISSN 1387-3806
- 6.Utkarsh a Patel, Rajkamal shukla,"Vibration analysis of self aligning ball bearing having local defect through FEA and its validation through experiment", international journal of modern engineering and research international journal of modern engineering and research, vol 2,issue 3, may-june 2012, ISSN: 1387-3806
- 7.Patel Utkarshkumar. A., Upadhyay S.H. "Nonlinear Dynamic response of Cylindrical Roller Bearing rotor system with 9 D.O.F model having a Combined Localized Defect at inner outer race of bearing" Tribology Transactions , Tailor and Frances 2016 accepted
- 8.Utkarshkumar A Patel, Naik Bhoomi "Nonlinear Vibration Prediction of Cylindrical Roller Bearing- rotor system having modeling for localized defect at inner race with finite element approach " Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multibody Dynamics SAGE PUBLICATION ( selected N0v2016)
9. Anant J seth, Utkarsh A Patel Determination of exact Optimal tuning of Dynamic Vibration Absorber to control Vibration due to robotic mass unbalance Recent advances in Manufacturing Automation Design, Lecture notes in Mechanical Engineering, 2021, Springer
10. Anant J Seth,Utkarsh A Patel Design and implementation of passive vibration absorber vibration control of rotating mass unbalanced air blower.Journal OF Engineering resear Duration ch Kuwait, 2021,,DOI: 10.36909
11. Anant J Seth,Utkarsh A Patel, U V SHAH, J P Patel Numerical investigation for the determination of equal vibration amplitude of the linear undamped vibrating system using conventional and ground hook dynamic vibration absorber by modification in damping factor and mass ratio.Internation Journal of Advance Science and Technology vol 29, 2020
12. Nilesh Pancholi, Amitkumar B. Solanki, Nilesh Tank, Utkarsh Patel Comparison of Distinct MCDM Approaches in Ranking of Failure Causes: An Example of the industrial processes. ISSN: 0974-5823, Vol. 6 No. 3 October-December, 2021

	<p>13. Samruddhi Patel1, Utpal Shah1, Bharat Khatri1 and Utkarsh Patel2 A research progress on bearing faultdiagnosis with localized defects anddistributed defects for rolling element bearings. Noise and Vibration worldwide. DOI: 10.1177/09574565221114661</p> <p>14. Samruddhi Patel, Dr. U. V. Shah, Dr. B. C. Khatri, Dr. U. A. Patel Review of Fault Diagnosis of Cylindrical Bearing with Defects International Journal of Advanced Research in Science, Vol. 9, Issue 11 , November 2022.</p> <p>15. Ms. Samruddhi Patel, Dr. Utpal Shah, Dr. Bharat Khatri, Dr. Utkarsh Patel, Mr. Sanjay Patel EXPERIMENTAL INVESTIGATION OF CYLINDRICAL ROLLER BEARING INNER AND OUTER RACE WITH DISTRIBUTED DEFECTSIndustrial Engineering JournalISSN: 0970-2555Volume : 52, Issue 3, March : 2023 Vol. 9, Issue 11 , November 20</p> <p>16. Bhoomi Nayak, U A Patel Dynamic analysis of overhung rotor system with bearing defect.International Journal of scientific research and development vol 3, issue 8, 2015 ISSN (Online) 2321-0613</p> <p>17. Performance Evaluation of TiAIN Coated Tungsten Carbide and CBN Tool During Hot Machining of OHNS Round Bar. h index d journal UA Patel, P Rathod, AB Solanki, NH Pancholi, J Parmar Journal of Mines, Metals &amp; Fuels 71 (6)</p>
<b>13</b>	<b>Projects Carried out</b>
<b>14</b>	<b>Patents :</b>
<b>15</b>	<b>No. of Books published with details</b>

<b>16</b>	<b>Trainings:</b>				
	Sr. No	Title	Organized By		
	1	Induction Training Programme Phse I	Ahmedabad, RCTI, NITTR	16-8-11	26-8-11
	2	Condition Monitoring of Plant and Machinery	NIT Hamirpur	17-7-13	21-7-13
	3	Modeling and Simulation of Dynamic System	IIT Roorkee	30-12-13	03-1-14
	4	Importance of CAD CAM	LDCE	18 -11-13	22-11-13
		Fluid Mechanics	IIT , Khadagpur Ecenter at IIT LDRP	20-5-14	30-5-14
		Matlab and its applications	Govt.Polytechnic ,Gandhinagar	17-11-2014	21-11-2014
		Simens controllers and SIMS	L.D.C.E	18-5-15	22-05-2015
		Cad,Advance solution and Manufacturing using NX software	L.D.C.E	25-5-15	6-5-15
		Induction Training Programme phase II, NITTR BHOPAL	centre at RCTI	2/5/2016	13/5/2016
<b>17</b>	<b>Membership</b> <ul style="list-style-type: none"> <li>● ISTE Membership</li> <li>● IEI , Associate Member</li> </ul>				

<b>1</b>	<b>Name</b>	Kaushik V Patel					
<b>2</b>	<b>Post</b>	Associate Professor					
<b>3</b>	<b>Email</b>	Kaushik.patel@gecpatan.ac.in					
<b>4</b>	<b>Date of Birth</b>						
<b>5</b>	<b>Educational Qualification</b>	PhD					
<b>6</b>	<b>Webpage</b>						
<b>7</b>	<b>Area of Specializations</b>	Machine Design					
<b>8</b>	<b>Work Experience</b>						
	Sr. No.	Position	Organization	Period	Experience		
	<b>Teaching</b>						
1	Lecturer	B. S. Patel Polytechnic	21/12/2005 to 29/04/2011	05 years, 01 Months			
2	Assistant Professor	Government Engineering College, Palampur	30/04/2005 to 05/12/2018	10 years, 03 Months			
3	Assistant Professor	Government Engineering College, Patan	06/12/2018 to /12/2025	03 years, 08 Months			
4	Associate Professor	Government Engineering College, Patan	24/04/2025 onwards				
	<b>Research</b>						
1							
2							
	<b>Industry</b>						
1							
2							
	<b>Others</b>						
1							
2							
<b>9</b>	<b>Subjects teaching at UG Level</b>	KTOM/ FMD/DOM/BIW/MFA					
<b>10</b>	<b>Subjects teaching at PG Level</b>						
<b>11</b>	<b>Research Guidance(count)</b>	<ul style="list-style-type: none"> <li>● Ph.D. : 01(Pursuing)</li> <li>● PG Students : 03</li> </ul>					
<b>12</b>	<b>Papers Publications:</b>	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Publication Details</th> </tr> </thead> </table>				Sr. No.	Publication Details
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	1	Design and dynamic balancing of multi-loop spatial mechanism-A Review - International Journal for Research in Engineering Application & Management (IJREAM), Jan 2019	
	2	An Application of Jacobian Matrix in Kinematic of Multi-loop Spatial Mechanism - International Journal of Innovative Technology and Exploring Engineering (IJITEE), Oct 2019	
	3	Modeling and dynamic analysis of multi-loop RSSR-SS parallel manipulator - Materials Today: Proceedings, 2022	
	4	Evaluation of different approach for WEDM process optimization - Materials Today: Proceedings, 2022	
	5	Design and performance evaluation of inverted downdraft biomass gasifier cook stove for improving the kitchen environment of rural area - Applied Chemical Engineering, 2024	
	6	Development of thermodynamic relation for mean density of mixture in the risers of natural circulation boilers - Applied Chemical Engineering, 2024	
	7	Analysis of Spatial Mechanism in dynamic equilibrium condition using MatLab - International Journal of Engineering Science and Technology (IJEST)	
	8	Analysis of Planner Kinematics Chain By Moment Matrix Method - International Journal of Design Engineering, Inder science Publication	
	9	Analysis of Planner Kinematics Chain By Moment Matrix Method - International Conference on Advances in Mechanical Engineering, SVNIT Surat, 2008	
	10	Optimization Of Four-Bar Linkages In Variable Input Speed With Kinematic And Dynamic Synthesis Using MatLab - International Conference on Advances in Mechanical Engineering, SVNIT Surat, 2008	
	11	Evolution of Efficiency of Flat panel used in coal mining industry- A Case study - SVNIT Surat, 2009	
	12	Moment matrix method for selection of planar kinematics chains - National Conference on Emerging Trends in Mechanical Engineering, Vallabh Vidyanagar, 2008	
	13	Kinematics synthesis & optimizations of four-bar linkages Using Mat lab in variable input speed - National Conference on Emerging Trends in Mechanical Engineering, Vallabh Vidyanagar, 2008	
	14	A Novel Approach For Selection of Production Plant layout in Manufacturing Environment using MADM method: Strategy case Study - National Conference on Advancement and Futuristic Trends in Mechanical Engineering, Rajkot, 2008	
	15	A Novel Approach For Selection of Material In Manufacturing Environment using MADM method: Strategy case Study - 3rd National Conference on Recent Developments in Mechanical Engineering, Thapar University, Patiala, 2008	

<b>13</b>	<b>Projects Carried out</b>																													
<b>14</b>	<b>Patents : 01</b>																													
<b>15</b>	<b>No. of Books published with details</b>																													
	<ul style="list-style-type: none"> <li>• "Workshop Technology " author K. V. Patel Practice Manual for First Year Degree and Diploma Student as per GTU Syllabus in Atul Prakashan</li> <li>• Elements of Mechanical Engineering " author K. V. Patel for First Year Degree student as per GTU Syllabus in Atul Prakashan, ISBN 8189736027 (2015-16)</li> <li>• "Manufacturing Process-I " author K. V. Patel for Second Year Degree student as per GTU Syllabus in Atul Prakashan (2015-16)</li> <li>• "Product design and value engineering " author K. V. Patel for the final year degree student as per gtu syllabus in Atul Prakashan. ISBN -978-93-85173-25-7 (2018-19)</li> <li>• "Operation research " author K. V. Patel for the final year degree student as per gtu syllabus in Atul Prakashan. ISBN-978-93-85173-07-3 (2018-19)</li> <li>• "Manufacturing processes" Sub Code:3141908, Author Prof. K. V. Patel for the 4th semester B.E. Mechanical Student as per THE new revised GTU syllabus. ISBN 978-93-85138-48-5 (2020-21)</li> <li>• "Manufacturing Technology" Sub Code: 3151912, Author Prof. K. V. Patel for the 4th semester B.E. Mechanical Student as per THE new revised GTU syllabus. ISBN 978-93-85138-34-8 (2020-21)</li> <li>• "Manufacturing Process-I " author K. V. Patel for Second Year Degree student (SUB CODE 2131903) as per GTU Syllabus in Atul Prakashan ISBN-978-93-85138-48-5 (2016-17) REVISED EDITION</li> </ul>																													
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		<b>WRITING</b>		
7	3D ANIMATION	NITTTR, Bhopal	27-06-2016 to 08-07-2016	
8	Portfolio Assessment	NITTTR, Ext. Center, Ahmedabad	02-01-2017 to 06-01-2017	
9	RESOURCE MANAGEMENT FOR MANUFACTURING SECTOR	NITTTR, Bhopal	03-07-2017 to 14-07-2017	
10	Faculty Development Program	IITE Gandhinagar	14-11-2019 to 20-11-2019	
11	Recent Trend in Automobile	NITTTR, Ext. Center, Ahmedabad	24-02-2020 to 28-02-2020	
12	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development Course	Online	28-07-2020 to 18-08-2020	
13	Comprehensive Online Intellectual Property Rights (IPR)	NITTTR, Bhopal- Online Mode	06-07-2020 to 14-09-2020	
14	EFFECTIVE USE OF OFFICE SOFTWARE	NITTTR, Bhopal- Online Mode	05-07-2021 to 09-07-2021	
15	WORK ETHICS, MOTIVATIONAL CLIMATE AND ATTITUDE DEVELOPMENT	NITTTR, Bhopal- Online Mode	11-10-2021 to 15-10-2021	
16	Student Assessment	SWAYAM ONLINE COURSE	Jan 2023 to Jun 2023	
17	Yoga and Positive Psychology for Managing Career and Life	NPTEL -SWAYAM ONLINE COURSE	Aug 2023 to Oct 2023	
18	Alternate fuels and Electric vehicle	ATAL- LDCE Ahmedabad	18-12-2023 to 23-12-2023	
19	Leadership and Team Effectiveness	NPTEL -SWAYAM ONLINE COURSE	Jan 2024 to Apr 2024	
20	Industrial Training- Bharat Horans	Mehsana	17-06-2024 to 29-06-2024	
21	Industrial Training- APS	Prantij	09-07-2024 to 23-07-2024	

<b>17</b>	<b>Membership</b> • Nil

<b>1</b>	<b>Name</b>	Chirakumar C.. Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	chirag.patel@gecpatan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M.E. Mechanical							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Thermal Science Engineering							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer	RMS Polytechnic, Vadodara	25/11/2005 to 06/08/2008	02 years, 08 Months					
2	Assistant Professor (Adhoc)	Government Engineering College, Patan	07/08/2008 to 12/04/2011	02 years, 07 Months					
3	Assistant Professor	Government Engineering College, Patan	13/04/2021 onwards						
	<b>Research</b>								
	---								
	<b>Industry</b>								
	---								
	<b>Others</b>								
	---								
<b>9</b>	<b>Subjects teaching at UG Level</b>	Design of Machine Elements, Thermodynamics, Engineering Graphics, Kinematics and Dynamics of machines							
<b>10</b>	<b>Subjects teaching at PG Level</b>	---							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D. : 00</li> <li>● PG Students : 00</li> </ul>								
<b>12</b>	<b>Papers Publications:</b>								
	Sr. No.	<b>Publication Details</b>							
	1								

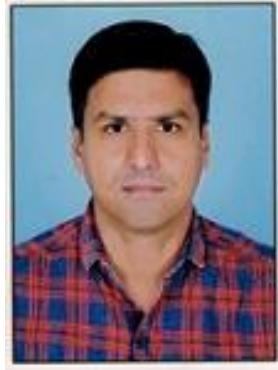
<b>13</b>	<b>Projects Carried out</b>	<b>0</b>			
<b>14</b>	<b>Patents</b>	<b>0</b>			
<b>15</b>	<b>No. of Books published with details</b>			<ul style="list-style-type: none"> <li>• 0</li> </ul>	
<b>16</b>	<b>Trainings:</b>				
	<b>Sr. No.</b>	<b>Title of the Training</b>	<b>Organized By</b>	<b>Duration</b>	
				<b>From</b>	<b>To</b>
1		Induction Training Programme Phase-I	NITTTR, EC K.D.POLY, PATAN	13/05/13	24/05/13
2		CAD using NX	GEC PATAN	25/04/16	30/04/16
3		Design of experiments	BVM, VVnadar	30/05/16	04/06/16
4		Digital Manufacturing using ROBCAD	GEC PATAN	17/10/16	21/10/16
5		Recent trends in Automation and Control	GEC PATAN	24/10/16	28/10/16
6		CAE using NX	GEC PATAN	07/11/16	19/11/16
7		LATEX FOR Academic Writing	GEC PATAN	20/03/17	24/03/17
8		Advanced computer aided Manufacturing Techniques	GEC PATAN	22/05/17	02/06/17
9		Solar thermal technologies for future of India	GEC PATAN	23/07/18	27/07/18
10		NBA Accreditation	IIT RAM, Ahmedabad	22/07/19	26/07/19
11		NBA Accreditation AND TEACHING-LEARNING	Online (MOOC)	JAN-2020	JULY-2020
12		Comprehensive Online Intellectual Property Rights	Online	06/07/20	14/09/20
13		Induction Training Programme Phase-II	NITTTR E.C. AHMEDABAD	11/09/23	22/09/23
14		Industrial Training	Mahesana Dairy Products, Mahesana	15/07/24	27/7/24
<b>17</b>	<b>Membership</b>			<ul style="list-style-type: none"> <li>• ISTE Membership</li> </ul>	

1	<b>Name</b>	Dipakkumar J. Parmar							
2	<b>Designation</b>	Assistant Professor							
3	<b>Email</b>	dipak.parmar@gecpan.ac.in							
4	<b>Date of Birth</b>								
5	<b>Educational Qualification</b>	Master of Engineering							
6	<b>Webpage</b>								
7	<b>Area of Specializations</b>	Jet propulsion and gas turbine							
8	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
1	Lecturer	L. C. Institute of Technology, Bhandu	02/01/2006 to 30/06/2008	02 years, 06 Months					
2	Assistant Professor	G H Patel College of Engineering and Technology, V V Nagar	01/07/2008 to 25/12/2008	06 Months					
3	Assistant Professor	Nirma University, Ahmedabad	26/12/2008 to 07/05/2011	02 Years, 6 Months					
4	Associate Professor	L D College of Engineering, Ahmedabad	09/05/2011 to 01/11/2022	11 years, 6 Months					
9	<b>Subjects teaching at UG Level</b>			Heat Transfer, Engg. Thermodynamics, Refrigeration and air conditioning					
10	<b>Subjects teaching at PG Level</b>			Gas Dynamics					
11	<b>Papers Publications:</b>								
12	Sr. No.	Title							
		Experimental analysis of a domestic refrigerator model working with LPG.							
	1	1							
	2	2							
	3	Importance of Cross over radius with reference to Critical radius for radial heat conduction.							
	4	Numerical Thermo-Fluid Analysis of Transverse Mixed Convection to Study the Effect of Inlet and Outlet Locations inside a Vented Enclosure.							
	5	Heat transfer analysis of heat generating wire using finite element method.							
	6	Simulations of flow in a solar roof collector driven by natural convection.							
	7	Structural Design and Analysis of a Vacuum Vessel Used For Waste Disposal with Plasma Pyrolysis Using FEA Code.							
	8	Thermal and fluid flow analysis of plasma facing component under high heat flux condition.							

	<p>9 Thermal fluid analysis of a flow through circular pipe when pipe is under uniform heat flux.</p> <p>10 Review on hybrid liquid desiccant based Air-conditioning system.</p> <p>11 HEAT TRANSFER ANALYSIS OF HEAT GENERATING WIRE USING FINITE ELEMENT METHOD.</p> <p>12 Experimental investigation on I.C. engine exhaust waste recovery PCM based thermal storage system using heat exchanger.</p> <p>13 Experimental investigation of various effects of oxygen enriched air intake on performance and emission of a multy cylinder diesel engine.</p> <p>14 Experimental investigation of various effects of oxygen enriched air intake with EGR on performance and emission of a multy cylinder diesel engine.</p> <p>15 Experimental investigation of heat recovery from engine exhausts gas and its application in Electrolux refrigeration system: a review.</p> <p>16 Experimental investigation of heat recovery from engine exhaust gas used in Electrolux refrigeration system.</p> <p>17 Review Study on Catalytic converter for Emission Control in Diesel Engine.</p> <p>18 Development and Performance analysis of catalytic converter based on ferric oxide for four stroke diesel engine.</p> <p>19 Optimizing Indirect Liquid Cooling System for Thermal Management of Electric Vehicle Battery: A CFD Study Using Cold Plate.</p> <p>20 STOICHIOMETRIC THERMODYNAMIC EQUILIBRIUM MODELS FOR DOWNDRAFT GASIFIERS: A REVIEW.</p> <p>21 Development of novel thermal storage integrated pasteurizer for solar milk pasteurization system.</p>																																					
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6	27-Dec-10	1-Jan-11	1	Advances in Automobile Engineering																																		

	7	13-May-13	18-May-13	1	Recent trends in Automobile Engineering
	8	18-Nov-13	22-Nov-13	1	Importance of CAD/CAM
	9	16-Dec-13	27-Dec-13	2	Induction Training Program Phase-I
	10	7-Apr-14	11-Apr-14	2	Induction Training Program Phase-II
	10	21-Apr-14	25-Apr-14		Induction Training Program Phase-II
	11	20-May-14	30-May-14	2	Fluid Mechanics
	12	17-Nov-14	21-Nov-14	1	MATLAB and its applications
	13	4-Dec-14	16-Dec-14	2	NX-Essentials for NX Designers
	14	18-May-15	22-May-15	1	SIEMENS Controllers and CIM
	15	25-May-15	29-May-15	1	CATIA for Mechanical and Allied Engineering
	16	23-May-16	4-Jun-16	2	Modelling, Analysis and Automation in Engineering
	17	6-Jun-16	18-Jun-16	2	Two week summer school on Fluid Mechanics
	18	12-Dec-16	16-Dec-16	1	Advances in Automobile Engineering
	19	22-May-17	2-Jun-17	2	Advanced computer added manufacturing techniques
	20	30-Oct-17	3-Nov-17	1	Simulation using CATIA
	21	26-Dec-17	5-Jan-18	2	Two-wheeler technology
	22	28-May-18	8-Jun-18	2	Innovation and advancement in conventional industrial welding practices
	23	25-Jun-18	29-Jun-18	1	First Course in Computational Fluid Dynamics
	24	15-Jul-19	19-Jul-19	1	Pedagogy and effective use if ICT in engineering education and academic governance
	25	1-Jan-20	1-Mar-20	1	MATLAB programming for numerical computations (8 Weeks)
	26	6-Jul-20	14-Sep-20	2	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)
	27	28-Jul-20	18-Aug-20	1	UDAYAM
	28	2-Oct-20	31-Oct-20	1	LaTeX
	29	Sep-20	Dec-20	2	Scientific computing using MATLAB (12 Weeks)
	30	Jan-21	Apr-21	2	Fundamentals of Combustion (12 Weeks)
	31	Jan-22	Apr-22	2	The joy of computing using Python (12 Weeks)
	32	29-08-22	02-09-22	1	Performance appraisal and development
	33	30-01-23	03-02-23	1	Blended learning
	34	Jan-23	Mar-23	1	Introduction to programming in C
	35	16-10-23	20-10-23	1	Research paper and research proposal writing
	36	05-02-24	09-02-24	1	Computational approaches for engineering

	37	03-06-24	18-06-24	2	Industrial Training at IFFCO, Kalol
	38	02-06-25	13-06-25	2	Emerging trends and practices in optimization and sustainable technology
	39	Jul-25	Oct-25	2	Introduction to Python and Petroleum Data Analytics
1 7	<b>Membership</b> <ul style="list-style-type: none"><li>• ISTE Membership</li></ul>				

<b>1</b>	<b>Name</b>	Mitesh G. Patel			
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	mitesh.patel@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	PhD			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Production Engineering			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
1	Lecturer	S. S. P. C; Visnagar	13/09/2007 to 20/09/2010	03 years	
2	Lecturer	NIDS; Nirma University	21/09/2010 to 03/05/2011	08 Months	
3	Assistant Professor	Government Engineering College, Patan	04/05/2011 to onwards	14 years, 08 Months	
4					
	<b>Research</b>				
1					
2					
	<b>Industry</b>				
1					
2					
	<b>Others</b>				
1					
2					
<b>9</b>	<b>Subjects teaching at UG Level</b>	Quality & Reliability Engineering, Operation Research, Mechanical Measurement & Metrology, Manufacturing Technology			
<b>10</b>	<b>Subjects teaching at PG Level</b>				
<b>11</b>	<b>Research Guidance(count)</b>			<ul style="list-style-type: none"> <li>● Ph.D.:00</li> <li>● PG Students :00</li> </ul>	

<b>12</b>	<b>Papers Publications:</b>																				
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	5	Karmayogi Residential Training for Quality Improvement program in Technical Education	Swaminarayan Dham, Ghandhinagar	17/01/2014 To 19/01/2014	
	6	Conclave on Mechanical and Materials Sciences	IIT, Gandhinagar	15/03/2014 To 16/03/2014	
	7	Advanced Engineering Optimization Through Intelligent Techniques	SVNIT, Surat	24/03/2014 To 28/03/2014	
	8	Fundamentals and special topics in heat transfer	SVNIT, Surat	23/06/2014 To 27/06/2014	
	9	Induction Phase-II	NITTTR Extension Centre, Ahmedabad	01/09/2014 To 12/09/2014	
	10	Advance Manufacturing Processes	SVNIT, Surat	08/06/2015 To 12/06/2015	
	11	Mechanical engineering Research Scolar's meet	GEC, Patan	30/06/2015	
	12	Energy conservation awareness	GEC, Patan	17/03/2016	
	13	CAD using NX	GEC, Patan	25/04/2016 To 30/04/2016	
	14	Additive manufacturing –Theory and Applications	SVNIT, Surat	10/06/2019 to 14/06/2019	
	15	Academic and Research Paper Writing	NITTTR Regional Centre, Ahmedabad	09/03/2020 to 13/03/2020	
	16	Metal cutting and machine tools	Swayam Mooc	24/02/2020 to 20/03/2020	
	17	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/07/2020 to 18/08/2020	
	18	Comprehensive Online Intellectual Property Rights (IPR)	Gujarat Student Startup and Innovation Hub ( i	06/07/2020 to 14/09/2020	

			- Hub )	
19	Advanced Research Methodology and Analytics	GEC. Patan	22/03/2021 To 26/03/2021	
20	Advanced in Manufacturing	SVNIT, Surat	26/07/2021 To 30/07/2021	
21	Data science and machine learning	SITAICS, RRU	04/10/2021 to 14/10/2021	
22	Document Preparation on Latex	NITTTR, Bhopal	19/12/2022 to 23/12/2022	
23	E-Content Development	Swayam Mooc	July-2022 to Nov-2022	
24	Leadership and Team Effectiveness	Swayam Mooc	Jan-2024 to April-2024	
25	Industry Training at MDFL, Mehsana	Industry Training	01/07/2024 to 13/07/2024	
26	Industry Training at APS, Prantij	Industry Training	15/07/2024 to 26/07/2024	
27	Comprehensive Fire Safety & Disaster Mitigation	National Fire Safety Institute, Vadodara	07/04/2025 to 11/04/2025	
28	Mobile Virtual Reality and Artificial Intelligence	Swayam Mooc	Aug-2025 to Sept-2025	
29	Educational Leadership	Swayam Mooc	July-2025 to Oct-2025	
17	Membership <ul style="list-style-type: none"> <li>• ISTE Membership</li> <li>• Membership 2</li> </ul>			

<b>1</b>	<b>Name</b>	Kamlesh H.Thakkar				
<b>2</b>	<b>Post</b>	Assistant Professor				
<b>3</b>	<b>Email</b>	Kamlesh.thakkar@gecpanan.ac.in				
<b>4</b>	<b>Date of Birth</b>					
<b>5</b>	<b>Educational Qualification</b>	M.Tech				
<b>6</b>	<b>Webpage</b>					
<b>7</b>	<b>Area of Specializations</b>	CAD/CAM (Mechanical)				
<b>8</b>	<b>Work Experience</b>					
	Sr. No.	Position	Organization	Period	Experience	
	<b>Teaching</b>					
1	Assistant Professor	Government Enginnering College,Patan	10/06/2016 to till date	09 years, 08 Months		
2	Assistant Professor	Sankalchand Patel College of Engineering, Visnagar	10/9/2011 to 20/05/2016	04 years, 08 Months		
3	Lecturer	Swami Sachchidanand polytechnic college,Visnagar	13/6/2005 to 9/9/2011	06 years, 03 Months		
4	Adhoc Lecturer	Swami Sachchidanand polytechnic college,Visnagar	1/8/2004 to 19/10/2004	02 months		
	<b>Research</b>					
1						
2						
	<b>Industry</b>					
1	Temp.Shift Officer	Banas Oil Processing Plant Deesa-Palanpur highway, Badarpura,Dist:Banaskantha (N.G)	19/6/2002 to 3/7/2003	1 year 01 months		
2						
	<b>Others</b>					
1						
2						
<b>9</b>	<b>Subjects teaching at UG Level</b>	Fluid Mechanics & Hy.Machines Basics of Industrial Engineering Engineering Thermodynamics Engineering Graphics and Drafting Computer Aided Manufacturing				
<b>10</b>	<b>Subjects teaching at PG Level</b>					

<b>11</b>	<b>Research Guidance(count)</b>																												
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<b>1</b>	<b>Name</b>	Dr. Hirenkumar Rameshbhai Prajapati					
<b>2</b>	<b>Post</b>	Assistant Professor					
<b>3</b>	<b>Email</b>	hiren.prajapati@gecpan.ac.in					
<b>4</b>	<b>Date of Birth</b>						
<b>5</b>	<b>Educational Qualification</b>	Ph. D					
<b>6</b>	<b>Webpage</b>						
<b>7</b>	<b>Area of Specializations</b>	Design and Dynamics, Manufacturing					
<b>8</b>	<b>Work Experience</b>						
Sr. No.	Position	Organization	Period	Experience			
<b>Teaching</b>							
1	Lecturer	S P B Patel College of Engineering	24-08-2007 to 31-08-2008	02 years, 00 Months			
2	Assistant Professor	S P B Patel College of Engineering	01-08-2010 to 31-12-2011	10 years, 03 Months			
3	Assistant Professor	U V Patel College of Engineering	01-01-2012 to 13-06-2016	03 years, 08 Months			
	Assistant Professor	Government Engineering College, Modasa	14-06-2016 to 31-10-2022				
4	Assistant Professor	Government Engineering College, Patan	01-11-2022 to Present				
<b>Research</b>							
1							
2							
<b>Industry</b>							
1	Supervisor	Lancer Laser Tech Pvt. Ltd, Khatraj	01/01/2004 to 37/07/2004	00 years and 07 months			
2							
<b>Others</b>							
1							
2							
<b>9</b>	<b>Subjects teaching at UG Level</b>	MOS, KTOM, DOM, CAD, DME, AT, IPDC					
<b>10</b>	<b>Subjects teaching at PG Level</b>	CAD, POM, Advanced Machine Design					
<b>11</b>	<b>Research Guidance(count)</b>						
	● Ph.D.: 00						



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10		“Modeling and Analysis of Track Mounted Conveyor’s Chassis Using FEA” in IJSRD – International Journal for Scientific Research & Development, ISSN (online): 2321-0613, Vol. 2, Issue 03, 2014, Pp. 834- 836.
11		“Investigation of Stress Concentration Factor for Keyway on Shaft under Different Loading Conditions: A Case Study”, University Journal of Research, Vol. 01, Issue 01 (2015) ISSN: 0000–0000, pp.
12		“Investigation of optimum stress concentration factor for shoulder fillet in round bar under different loading conditions”, Trends in Mechanical Engineering & Technology, Vol. 8(2) ISSN: 2231-1793, pp. 18-26.
13		“Evaluation of Stress Concentration Factor for Shoulder Fillet on Round Bar under Axial Tension Loading” American International Journal of Research in Science, Technology, Engineering & Mathematics, Vol. 1, Issue. 25, pp. 05-10, ISSN 23283491, e-ISSN Number: 23283580.
14		“Performance Evaluation of Stress Concentration Factor for Shoulder Fillet on Round Bar under Bending Loading”, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue. 4, pp. 1670-1675, ISSN: 2277-3878.
15		“Measurement of Stress Concentration Factor for Shoulder Fillet on Flat Plate under Axial Tension using Photoelasticity Method and FEA”, ‘International Journal of Innovative Technology and Exploring Engineering (IJITEE)’,Vol. 8, Issue. 12, pp. 4234-4244. ISSN: 2278–3075 (Online).
16		"Effect of Curved Surface of a Shoulder Fillet Round Bar on Stress

		Concentration Factor for Axial Tension Loading", Jurnal Kejuruteraan, Vol. 35(1) January 2023, pp. 141-157.																																									
	17	"Estimation of Stress Concentration Factor for a plate with hole under Axial Tension Loading", Jurnal Kejuruteraan Vol. 35(2) March 2023, pp. 437-444.																																									
	18	Experimental investigation on the effect of post-weld heat treatment on intergranular corrosion properties of auto TIG-welded SA213 TP304 grade austenitic stainless steel, Canadian Metallurgical Quarterly																																									
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		and Automation"		24-12-2021	
10	Kinematics of Mechanisms and Machines (FDP) -8 week course	MOOC Course (8 Weeks)		24-01-2022 to 18-03-2022	
11	Gear And Gear Unit Design: Theory and Practice (FDP) -8 week course	MOOC Course (8 Weeks)		21-02-2022 to 15-04-2022	
12	Induction Phase -II - (2 Weeks)	NITTTR, Ext. Centre Ahmedabad		13-02-2023 to 24-02-2023	
13	Product Design and Development (FDP) - 4 Weeks	MOOC Course		24-07-2023 to 18-08-2023	
14	Introduction to Mechanical Vibration (FDP) - 8 Weeks	MOOC Course		24-07-2023 to 15-09-2023	
15	FDP Certificates - Copyright and Related Rights Law	MOOC Course		July to Oct. 2025	
<b>17</b>	<b>Membership</b> <b>Nil</b>				

<b>1</b>	<b>Name</b>	Vipulkumar Kashirambhai Patel			
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	vipul.patel@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	M.Tech			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Manufacturing Process, Friction stir process			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
1	Assistant Professor	01/10/2010	01/10/2010 to 22/06/2016	05 years, 08 Months	
2	Assistant Professor	Government Engineering College, Patan	23/06/2016 onwards	10 years, 03 Months	
	<b>Research</b>				
1					
2					
	<b>Industry</b>				
1					
2					
	<b>Others</b>				
1					
2					
<b>9</b>	<b>Subjects teaching at UG Level</b>	Workshop, Engineering Graphics, Manufacturing Process, Manufacturing Technology			
<b>10</b>	<b>Subjects teaching at PG Level</b>	Robotics, Optimizations			
<b>11</b>	<b>Research Guidance(count)</b> ● PG Students : 03				
<b>12</b>	<b>Papers Publications:</b>				
	Sr. No.	<b>Publication Details</b>			
	1	Study on AZ31 magnesium alloy-based surface composite through friction stir processing: a review - Welding International (Tylor & Francis), 2025 - DOI: <a href="https://doi.org/10.1080/09507116.2025.2458043">https://doi.org/10.1080/09507116.2025.2458043</a>			
	2	Fabrication of copper reinforced Aluminium 6061-T6 surface composite using friction stir processing - International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence: ICFAMEAD-2024, 04-05 October 2024			

	3																														
13	<b>Projects Carried out</b>																														
14	<b>Patents : 01</b>																														
15	<b>No. of Books published with details</b>	<ul style="list-style-type: none"> <li>• Book1</li> <li>• Book2</li> </ul>																													
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17	<b>Membership</b>	<ul style="list-style-type: none"> <li>●</li> </ul>																													

1	<b>Name</b>	Patel Bhargav Bharatbhai																																																																		
2	<b>Post</b>	Assistant Professor																																																																		
3	<b>Email</b>	bhargav.patel@gecpanan.ac.in																																																																		
4	<b>Date of Birth</b>																																																																			
5	<b>Educational Qualification</b>	M.E. Mechanical																																																																		
6	<b>Webpage</b>																																																																			
7	<b>Area of Specializations</b>	(CAD/CAM)																																																																		
8	<b>Work Experience</b>	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Position</th> <th>Organization</th> <th>Period</th> <th>Experience</th> </tr> </thead> <tbody> <tr> <td colspan="5"><b>Teaching</b></td> </tr> <tr> <td>1</td> <td>Lecturer</td> <td>Sankalchand Patel College of Engineering, Visnagar</td> <td>27/08/2007 to 20/05/2016</td> <td>08 years, 08 Months</td> </tr> <tr> <td>2</td> <td>Assistant Professor</td> <td>Government Engineering College, Patan</td> <td>10/06/2016 to till date</td> <td>09 years, 03 Months</td> </tr> <tr> <td colspan="5"><b>Research</b></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5"><b>Industry</b></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5"><b>Others</b></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sr. No.	Position	Organization	Period	Experience	<b>Teaching</b>					1	Lecturer	Sankalchand Patel College of Engineering, Visnagar	27/08/2007 to 20/05/2016	08 years, 08 Months	2	Assistant Professor	Government Engineering College, Patan	10/06/2016 to till date	09 years, 03 Months	<b>Research</b>					1					2					<b>Industry</b>					1					2					<b>Others</b>					1					2				
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	<p>September 2012 Vol. 4 issue 2.</p> <p>4. B. B. Patel, K. B. Rathod, "Multi parameter analysis and modeling of SR in EDM of AISI D2 steel" International journal of scientific &amp; engineering research, March 2012 Vol. 3 issue 3</p> <p>5. B. B. Patel, K. B. Rathod, Multi parameter analysis and modeling of AISI D2 steel in Electro discharge machining.</p> <p>6. B. B. Patel, " Application of response surface methodology for determining MRR and TWR model in die sinking EDM of AISI 1045 steel", International journal of engineering research and applications, Vol.2 issue 6 Nov- Dec 2012.</p> <p>7. B. B. Patel, "Multi objective optimization of die sinking electro discharge machining process using taguchi, "International journal of engineering research and applications, Vol.2 issue 6 Nov- Dec 2012.</p> <p>8. B. B. Patel, P.R. Patel, V. A. Patel, "Effect of machining parameters on surface roughness for 6063 al-tic (5 &amp; 10 %) metal matrix composite using RSM" International journal of engineering research and Technology, Vol. 2 issue 1 Jan 2013.</p> <p>9. Bhargav Patel, Fabrication of Copper Reinforced Aluminium 6061-T6 Surface Composite using Friction Stir Processing "International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence (ICFAMEAD 2024) October 04-05, 2024."</p> <p><b>10.</b> Bhargav Patel, A review of friction stirred aluminium graphene surface composite (FSAGSC): Microstructure evolution, properties improvement "International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence (ICFAMEAD 2024) October 04-05, 2024."</p>
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<b>16</b>	<b>Trainings:</b>

	Sr. No.	Title of the Training	Place of Training	Duration		Total No. of days	Sponsored/ Approved by
				From	To		
	1	Computer Aided Engineering Using NX	GEC, Patan	07/11/2016	19/11/2016	2 Week	TEQIP-II
	2	Digital Manufacturing Using Rob CAD	GEC, Patan	17/10/2016	21/10/2016	1 Week	TEQIP-II
	3	Recent Trends in Automation & Control	GEC, Patan	24/10/2016	28/10/2016	1 Week	TEQIP-II
	4	I-FDP International Faculty Development Program	GEC, Patan & Mahatma Mandir	10/03/2017 14/03/2017 27/03/2017	10/03/2017 14/03/2017 27/03/2017	3 Days	TEQIP-II
	5	Latex for Academic Writing	GEC, Patan	20/03/2017	24/03/2017	1 Week	TEQIP-II
	6	Advance Computer Aided Manufacturing Techniques	GEC, Patan	22/05/2017	02/06/2017	2 Week	TEQIP-II
	7	Induction Training Programme Phase-1	NITTTR Ahmedabad	21/08/2017	01/09/2017	2 Week	CTE
	8	Induction Training Programme Phase-2	NITTTR Ahmedabad	10/06/2019	21/06/2019	2 Week	CTE
	9	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Online	06/07/2020	14/09/2020		CTE
	10	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development Course	Online	28/07/2020	18/08/2020		CTE
	11	ICT in Teching and Learning	MOOC (Online)	Jan 2020	May 2020	1 Week	CTE
	12	Technology Enabled Learning	MOOC (Online)	Jan 2022	May 2022	1 Week	CTE
	13	Impactful Pedagogical Skills and Restructuring of Collaborations	GEC, Patan (Online)	17/01/2022	21/01/2022	1 Week	CTE
	14	Leadership and Team Effectiveness	MOOC (Online)	Jan 2024	Apr 2024	1 Week	CTE
	15	Student Assessment	MOOC (Online)	Jan 2024	June 2024	1 Week	CTE
	16	Industrial Training at Suchi Foams	Suchi Foams Pvt. Ltd.	17 <sup>th</sup> June 2024	29 <sup>th</sup> June 2024	2 Week	Industrial/CTE



<b>1</b>	<b>Name</b>	Makvana Narendrasinh Ramjibhai																																																																		
<b>2</b>	<b>Post</b>	Assistant Professor																																																																		
<b>3</b>	<b>Email</b>	narendrasinh.makvana@gecpan.ac.in																																																																		
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	14	Impactful Pedagogical Skills and Restructuring of Collaborations	17/01/2022	21/01/2022	CTE & LDCE, Ahmedabad
<b>17</b>	<b>Membership</b>				
	<ul style="list-style-type: none"> <li>• SAE India Membership</li> </ul>				

<b>1</b>	<b>Name</b>	Rakesh A. Oza			
<b>2</b>	<b>Post</b>	Assistant Professor			
<b>3</b>	<b>Email</b>	rakesh.oza@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	PhD (Pursuing)			
<b>6</b>	<b>Webpage</b>				
<b>7</b>	<b>Area of Specializations</b>	Computer-Aided Design, Advanced Manufacturing			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
	1	Assistant Professor	Gujarat Power Engineering and Research Institute	05/08/2011 to 31/05/2016	04 years, 10 Months
	2	Assistant Professor	Government Engineering College, Patan	10/06/2016 onwards	
	<b>Research</b>				
	1				
	2				
	<b>Industry</b>				
	1				
	2				
	<b>Others</b>				
	1				
	2				
<b>9</b>	<b>Subjects teaching at UG Level</b>	Computer Aided Design, Machine Design, Industry 4.0, Rapid Manufacturing			
<b>10</b>	<b>Subjects teaching at PG Level</b>				
<b>11</b>	<b>Research Guidance(count)</b>			<ul style="list-style-type: none"> <li>● Ph.D. : -</li> <li>● PG Students : 00</li> </ul>	
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<b>14</b>	<b>Patents : 00</b>				
<b>15</b>	<b>No. of Books published with details</b> ●				
<b>16</b>	<b>Trainings:</b>				
Sr. No	Title	Organized By	Duration		
1	Industrial Training at Royal Castor Products Ltd	Industrial Training	08-06-2024 to 21-06-2024		
2	Industrial Training at Suchi Foams Pvt. Ltd.	Industrial Training	17-05-2024 to 29-05-2024		
3	MOOC on Student Assessment	MOOC	01-01-2023 to 30-06-2023		
4	MOOC on Leadership and Team Effectiveness	MOOC	01-01-2021 to 30-06-2024		
5	Metallurgy For All	GEC Gandhinagar (Online)	21-02-2022 to 25-02-2022		
6	MOOC on Technology Enabled Learning	MOOC	January 2022 to May 2022		
7	Impactful Pedagogical Skills and Restructuring of Collaborations	L.D. Engineering College, Ahmedabad (Online)	17-01-2022 to 21-01-2022		
8	Advanced Research Methodology & Analytics (ARMA-2021)	Government Engineering College, Patan	22-03-2021 to 26-03-2021		
9	ANSYS Mechanical and ANSYS CFD	Government Engineering College, Patan	13-07-2020 to 15-07-2020		
10	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat (KCG) (Online)	28-07-2020 to 18-08-2020		
11	Comprehensive Online Intellectual Property Rights (IPR)	Gujarat Student Startup and Innovation Hub (i-Hub) (Online)	06-07-2020 to 14-09-2020		

	12	MOOC on ICT in Teaching and Learning	MOOC	27-01-2020 to 22-02-2020	
	13	Emerging Trends in Major Thrust Areas in Mechanical Engineering	DTE Training (Online)	26-02-2018 to 09-03-2018	
	14	Induction Phase-II	NITTTR Bhopal Extension Center, Ahmedabad	25-02-2019 to 08-03-2019	
	15	Advanced Computer-Aided Manufacturing Techniques	Government Engineering College, Patan	25-05-2017 to 02-06-2017	
	16	International Faculty Development Programme	Government Engineering College, Patan	14-03-2017 to 17-03-2017	
	17	One Week STTP on Latex for Academic Writing	Government Engineering College, Patan	20-03-2017 to 24-03-2017	
	18	Induction Phase-I	NITTTR Bhopal Extension Center, Ahmedabad	27-02-2017 to 10-03-2017	
	19	Computer Aided Engineering Using NX	Government Engineering College, Patan	07-11-2016 to 19-11-2016	
	20	Recent Trends in Automation & Control	Government Engineering College, Patan	24-10-2016 to 28-10-2016	
	21	Digital Manufacturing Using Rob CAD	Government Engineering College, Patan	17-10-2016 to 21-10-2016	
	22	TEQIP Conclave	IIT Gandhinagar	24-09-2024 to 25-09-2024	
<b>17</b>	<b>Membership</b>				
	<ul style="list-style-type: none"> <li>● ISTE Membership</li> <li>● IAENG Membership</li> </ul>				

<b>1</b>	<b>Name:</b>	Dr Hitesh Panchal		
2	Post:	Assistant professor		
<b>3</b>	Date of Birth :			
<b>4</b>	Email:	Engineerhitesh2000@gmail.com		
<b>5</b>	Webpage:	<a href="https://scholar.google.com/citations?user=8Afo2QIAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=8Afo2QIAAAAJ&amp;hl=en</a>		
<b>6</b>	Educational Qualification:	<b>Ph.D. (Mechanical Engineering)</b>		
<b>7</b>	Work Experience:	Teaching: 4.10 years		
		Research: 00		
		Industry: 00		
		Others :		
S.No.	Institute	Period	Experience	
1	GEC patan	1-07-2016 to Continue,,	4.10 years	
2				
3				
4				
5				
<b>8</b>	Area of Specializations:	<b>Ph.D. (Mechanical Engineering)</b>		
<b>9</b>	Subjects teaching at Under Graduate Level:	<b>Mechanical Engineering subjects (Renewable Energy Engineering, Material science and Metallurgy, Automobile Engineering)</b>		
<b>10</b>	Post Graduate Level:	-----		
<b>11</b>	Research guidance:	Master's Degree : 5 (3 students are continue..)		
		Ph.D.: 01 completed (04 ongoing)		
<b>12</b>	No. of Research papers published:	National Journals : 00		
		International Journals : 120		
		Conferences : 20		
<b>Published in International Journal</b>				
1		Hitesh Panchal & Kishor Kumar Sadasivuni (2020) Enhancement of the distillate yield of solar still by separate and inbuilt condensers: A mini-Review, International Journal of Ambient Energy, DOI: 10.1080/01430750.2020.1831595		
2		Hitesh Panchal (2020) Annual performance analysis of various energy storage		

		materials in the upper basin of a double-basin solar still with vacuum tubes, International Journal of Ambient Energy, 41:4, 435-451, DOI: 10.1080/01430750.2018.1472653
	3	Hitesh Panchal & Hitesh Bhargav (2019) Mini-review of different co-generation systems: solar thermal perspective, International Journal of Ambient Energy, DOI: 10.1080/01430750.2019.1568912
	4	Hitesh Panchal, Romil Patel & Ravishankar Sathyamurthy (2021) Investigation and performance analysis of solar milk pasteurisation system, International Journal of Ambient Energy, 42:5, 522-529, DOI: 10.1080/01430750.2018.1557552

<b>Published in National Journal</b>		
5	NIL	
6		
7		

<b>12</b>	Projects Carried out:	02 completed and 01 on going	
<b>13</b>	Nos. of consultancy project:	-----	
<b>14</b>	Patents:	Total 24 full patents and 05 Industrial designs have been published. 02 patents and 02 industrial design have granted.	
<b>15</b>	Technology Transfer	-----	
<b>16</b>	No. of Books published with details:		
	Title	Publisher	Year
	Conventional power Engineering	Mahajan publishers	2015
	Modeling and analysis of hemispherical solar still using CFD	Lambert academic publishers	2015
	Investigation on performance analysis of Double pass solar air heater	Lambert Academic Publishers	2019
<b>17</b>	Training:		
	1	Short Term program on Intellectual Property Rights during 07/07/2020 to 14/09/2020.	
	2	Short Term Training Program on “ Nurturing Innovation and startup ecosystem” during 08/09/2020 to 24/10/2020	
	3	Short Term training program on “Futuristic Innovations on Solar Energy Technologies” during 8-12 Feb 2021	
	4		
	5		
<b>18</b>	Seminar:		

	1	NIL
	2	
<b>19</b>	Membership:	Fellow Member of I2OR

<b>1</b>	<b>Name</b>	KADIYA CHIRAG PRAVINBHAI			
<b>2</b>	<b>Post</b>	Assist Professor			
<b>3</b>	<b>Email</b>	chirag.kadiya@gecpatan.ac.in			
<b>4</b>	<b>Date of Birth</b>				
<b>5</b>	<b>Educational Qualification</b>	Bachelor of engineering in Mechanical			
<b>6</b>	<b>Webpage</b>	-			
<b>7</b>	<b>Area of Specializations</b>	-			
<b>8</b>	<b>Work Experience</b>				
	Sr. No.	Position	Organization	Period	Experience
	<b>Teaching</b>				
	1	Assistant Professor	Government Engineering College, Patan	21-05-2011 to till Continue	14 years, 08 Months
	2	Assistant Professor	Government Engineering College, Godhra	17-04-2011 to 20-05-2011	0 Year, 1Months
	3	Assistant Professor	VishwakarmaGouvernement Engineering College, Chandkheda	26/08/2021 to 24/04/2025	02 years, 06 Months
	<b>Research</b>				
	1				
	2				
	<b>Industry</b>				
	1	Production Supervisor (J.E.)	KHS.pvt.ltd	01-06-2004 to 30-09-2008	04 years, 03 Months
	2				
	<b>Others</b>				
	1				
	2				
<b>9</b>	<b>Subjects teaching at UG Level</b>	Basic Mechanical Engineering Engineering Graphics and Drawing Power plant Engineering, IPDC, Organisation Behaviour, Indian Constitution			
<b>10</b>	<b>Subjects teaching at PG Level</b>	-			



<b>11</b>	<b>Research Guidance(count)</b> <ul style="list-style-type: none"> <li>● Ph.D. : -</li> <li>● PG Students : 00</li> </ul>																						
<b>12</b>	<b>Papers Publications:</b> <table border="1" style="width: 100%;"> <thead> <tr> <th>Sr. No.</th> <th>Publication Details</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> </tr> </tbody> </table>			Sr. No.	Publication Details	1	-																
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<b>14</b>	<b>Patents:</b>	-																					
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3																							
4																							
<b>17</b>	<b>Membership</b> <ul style="list-style-type: none"> <li>●</li> </ul>																						

<b>1</b>	<b>Name:</b>	<b>Rabari Kirankumar Kanjibhai</b>	
<b>2</b>	<b>Post:</b>	Assistant Professor	
<b>3</b>	<b>Date of Birth :</b>		
<b>4</b>	<b>Email:</b>	<a href="mailto:rabarikiran15@gmail.com">rabarikiran15@gmail.com</a>	
<b>5</b>	<b>Webpage:</b>		
<b>6</b>	<b>Educational Qualification:</b>	Master of engineering in Mechanical( CAD/CAM)	
<b>7</b>	<b>Work Experience:</b>	Teaching: 14 Years Research: --- Industry: ---- Others .	
S.No.	Institute	Period	Experience
1	Government Engineering college Patan	05/10/2012 to till date	13Years 5 months
2	SPCE,Visnagar	02/03/2010 to 31/05/2010	3 Months
3	SPCE,Visnagar	25/08/2009 to 12/12/2009	4 Months
4			
5			
<b>8</b>	<b>Area of Specializations:</b>	Master of engineering in Mechanical( CAD/CAM)	
<b>9</b>	<b>Subjects teaching at Under Graduate Level:</b>	<b>Basic Mechanical Engineering</b> <b>Engineering Graphics and Drawing</b>	
<b>10</b>	<b>Post Graduate Level:</b>	-----	
<b>11</b>	<b>Research guidance:</b>	Master's Degree : -----	
		Ph.D.: -----	
<b>12</b>	<b>No. of Research papers published:</b>	National Journals : International Journals : Conferences :	
<b>Published in International Journal</b>			
1			
2			
3			
4			

	<b>Published in National Journal</b>
5	
6	
7	

<b>12</b>	Projects Carried out:	-----	
<b>13</b>	Nos. of consultancy project:	-----	
<b>14</b>	Patents:	-----	
<b>15</b>	Technology Transfer	-----	
<b>16</b>	No. of Books published with details:		
	Title	Publisher	Year
<b>17</b>	Training/Wor kshop:		
	1	Industrial Training From 10 January TO 28 January 2009 AT NEPTUNE Industry Limited Mahesana.	
	2	Actively Participated in workshop on "Patent search Methodology" organized by Gujarat Technological University, Ahmedabad.	
	3	Actively Participated in seminar on "Research Methodology in Technical Education" organized by Shree Merchant Charitable Trust held at Sardar Patel Institute of technology.	
	4	Actively Participated in Faculty Development Program under TEQIP-II on "Research Opportunities at Different National Institute" held at Government Engineering College Patan.	
	5	Actively Participated in " Karmayogi Residential Training for Quality Improvement Program in Technical Education" organized by Commissionerate of Technical Education Department held at Swaminarayan Dham,Gandhinagar.	
	6	Actively Participated in AICTE recognized short term course on " Core Teaching Skills" organized by National Institute of Technical Teachers' Training and Research,Bhopal under Ministry of Human Recourses Development,Govt. of India.	
	7	Actively Participated in workshop on" Energy Conservation Awareness" organized by GUJARAT ENERGY DEVELOPMENT AGENCY ( GEDA) held at G Government Engineering College Patan.	
	8	Actively Participated in workshop on" Energy Conservation Awareness" organized by GUJARAT ENERGY DEVELOPMENT AGENCY ( GEDA) held at G Government Engineering College Patan.	
	9	FDP-International Faculty Development Program	
<b>18</b>	Seminar:		
	1		
	2		
<b>19</b>	Membership:		

<b>1</b>	<b>Name</b>	Dharmesh K. Patel							
<b>2</b>	<b>Post</b>	Assistant Professor							
<b>3</b>	<b>Email</b>	dharmesh.patel@gecpan.ac.in							
<b>4</b>	<b>Date of Birth</b>								
<b>5</b>	<b>Educational Qualification</b>	M. Tech							
<b>6</b>	<b>Webpage</b>								
<b>7</b>	<b>Area of Specializations</b>	Advanced Manufacturing Technology							
<b>8</b>	<b>Work Experience</b>								
	Sr. No.	Position	Organization	Period	Experience				
	<b>Teaching</b>								
	1	Assistant Professor	Government Engineering College, Patan	21/10/2014 To Till Date	11 years, 03 Months				
	<b>Research</b>								
	1								
	2								
	<b>Industry</b>								
	1								
	2								
	<b>Others</b>								
	1								
	2								
<b>9</b>	<b>Subjects teaching at UG Level</b>	IPDC, Production Technology, Operation Research, BME, EGD							
<b>10</b>	<b>Subjects teaching at PG Level</b>	-							
<b>11</b>	<b>Research Guidance(count)</b>								
	<ul style="list-style-type: none"> <li>● Ph.D.: -</li> <li>● PG Students :-</li> </ul>								
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	6																						
	7																						
<b>13</b>	<b>Projects Carried out</b>																						
<b>14</b>	<b>Patents : 01</b>	<b>HEAD GEAR WITH AIR CONDITIONING SYSTEM</b>																					
<b>15</b>	<b>No. of Books published with details</b>	●																					
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2																							
3																							
4																							
<b>17</b>	<b>Membership</b>	●																					

## **9. FEE**

- **Details of fee, as approved by the State fee Committee, for the Institution :** Rs. 1500/- Per Year.
- **Time schedule for payment of fee for the entire program :** Beginning of each term.
- **No. of Fee waivers granted with amount and name of students :** As per government of Gujarat rules.
- **Number of scholarships offered by the institute, duration and amount :**

<b>Name of Scheme</b>	<b>Total number of applications</b>
BCK -137 Post S.S.C Scholarship For Girls(NTDNT)	1
BCK-138 Post S.S.C Scholarship For Boys(NTDNT)	7
BCK-78 Post S.S.C Scholarship For Girls(SEBC)	16
BCK-79 Food Bill Assistance For Medical,Engineering Students(SEBC)	122
BCK-80 Instrumental Assistance For Medical, Engineering, Diploma students(SEBC)	61
BCK-81 Post S.S.C Scholarship For Boys(SEBC)	138
BCK-81A Post Matric Scholarship of Government of India for the OBC students	353
Dr. Ambedkar Post Matric Scholarship of Government of India for Economic backward class Students	194
Tablet Assistance to SEBC Students	53
<b>Total</b>	<b>945</b>

<b>Name of Scheme</b>	<b>Total number of applications</b>
(BCK-10) Food bill Assistance to SC Students	11
(BCK-12) Instrumental Help to SC Students (Medical,Engineering,Diploma Students Only)	2
(BCK-5) Post Matric Scholarship for SC girls student only (Having annual family income more than 6 Lac)(State Government Scheme)	1
(BCK-5) Post Matric Scholarship for SC girls student only (Having annual family income between 2.50 Lac to 6 Lac)(State Government Scheme)	5
(BCK-6.1) Post Matric Scholarship for SC students (Government of India Scheme)	55
<b>Total</b>	<b>74</b>

<b>Name of Scheme</b>	<b>Total number of applications</b>
Umbrella Scheme for Education of ST Students Post-Matric Scholarship	46
VKY 156 Post Matric Scholarship for ST Girls Students having annual family income more than 2.50 Lakh	1

VKY-157 Food Bill Assistance in College Attached Hostels	17
<b>Total</b>	<b>64</b>

- Duration: **Yearly**

➤ **Criteria for fee waivers/scholarship :** As per government of Gujarat rules.

➤ **Estimated cost of boarding and Lodging in Hostels**

Rs. 2000 fees per year for boarding

Rs. 1500 Approximate fee for lodging per month.

## 10. ADMISSION

➤ **Number of seats sanctioned with the year of approval.**

➤ **Number of students admitted under various categories each year in the last three years.**

YEAR	BRANCH	Approve intake	GENERAL	SC	ST	OBC
2018-19	CIVIL ENGINEERING	60	34	2	6	15
	MECHANICAL ENGINEERING	120	91	2	0	26
	ELECTRICAL ENGINEERING	60				
	COMPUTER SCIENCE AND ENGINEERING	120	81	6	1	28
	ELECTRONICS & COMMUNICATION ENGG	30	44	0	0	0
2019-20	CIVIL ENGINEERING	60	39	4	4	20
	MECHANICAL ENGINEERING	120	97	0	0	0
	ELECTRICAL ENGINEERING	60	64	0	0	0
	COMPUTER SCIENCE AND ENGINEERING	120	97	7	0	35
	ELECTRONICS & COMMUNICATION ENGG	120	6	0	0	0
	CIVIL ENGINEERING	60	67	0	1	3
	MECHANICAL ENGINEERING	90	56	0	0	0

2020-21	ELECTRICAL ENGINEERING	60	25	0	0	0
	COMPUTER SCIENCE AND ENGINEERING	120	85	10	1	38
	ELECTRONICS & COMMUNICATION ENGG	30	7	0	0	0

**Number of applications received during last two years for admission  
under Management Quota and number admitted : NA**

## **11. ADMISSION PROCEDURE**

- Admission given through Joint Admission Committee for professional courses as per Government rules. Web : [www.ldceindia.org](http://www.ldceindia.org)
- Mention the admission test being followed, name and address of the Test Agency and its URL (website). N/A
- Number of seats allotted to different Test Qualified candidates separately [AIEEE/CET (State conducted test/University tests)/Association conducted test]  
-- N/A
- Calendar for admission against management/vacant seats: NA Last date for request for applications. NA Last date for submission of application. NA Dates for announcing final results. NA Release of admission list (main list and waiting list should be announced on the same day) Date for acceptance by the candidate (time given should in no case be less than 15 days) Last date for closing of admission. Starting of the Academic session. The waiting list should be activated only on the expiry of date of main list. The policy of refund of the fee, in case of withdrawal, should be clearly notified.

## **12. CRITERIA AND WEIGHT AGES FOR ADMISSION**

- **The admissions on all the seats are made by Joint Admission Committee for Professional Courses (T) constituted by the state government. The admissions are given on the basis of HSC (60%weightage) and Common Entrance Test (40%weightage) by the admission committee.**
- **Mention the minimum level of acceptance, if any :** No
- **Mention the cut-off levels of percentage & percentile scores of the candidates in the admission test for the last three years :** No admission tests were conducted in last three years.
- **Display marks scored in Test etc. and in aggregate for all candidates who were admitted :** Admissions are made by Joint Admission Committee for Professional Courses (T) constituted by the State.

## **13. LIST OF APPLICANTS : NA**

## **14. RESULTS OF ADMISSION UNDER MANAGEMENT SEATS/VACANT SEATS : N/A**

**15. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLES**

➤ **Number of Classroom and size of Each**

Sr. No.	Room Type	Area of room in Sqm	Building Name
1	Classroom	66.91	Electronics & Communication Department
2	Classroom	92.17	Electronics & Communication Department
3	Classroom	92.17	Electronics & Communication Department
4	Classroom	66.91	Electronics & Communication Department
5	Classroom	66.91	Electronics & Communication Department
6	Classroom	66.91	Electronics & Communication Department
7	Classroom	66.91	Electronics & Communication Department
8	Classroom	66.91	Computer Department
9	Classroom	92.17	Computer Department
10	Classroom	92.17	Computer Department
11	Classroom	66.91	Computer Department
12	Classroom	66.91	Computer Department
13	Classroom	66.91	Computer Department
14	Classroom	66.91	Computer Department
15	Classroom	66.91	Mechanical Department
16	Classroom	92.17	Mechanical Department
17	Classroom	92.17	Mechanical Department
18	Classroom	66.91	Mechanical Department
19	Classroom	66.91	Mechanical Department
20	Classroom	66.91	Mechanical Department
21	Classroom	66.91	Mechanical Department
22	Classroom	66.91	Electrical Department
23	Classroom	92.17	Electrical Department
24	Classroom	92.17	Electrical Department
25	Classroom	66.91	Electrical Department
26	Classroom	66.91	Electrical Department
27	Classroom	66.91	Civil Department
28	Classroom	92.17	Civil Department
29	Classroom	92.17	Civil Department
30	Classroom	66.91	Civil Department

➤ **Number of Tutorial rooms and size of Each**

Sr. No.	Room Type	Area of room in Sqm	Building Name

1	Tutorial Room	31.46	Electronics & Communication Department
2	Tutorial Room	31.46	Electronics & Communication Department
3	Tutorial Room	31.46	Computer Department
4	Tutorial Room	31.46	Computer Department
5	Tutorial Room	31.46	Mechanical Department
6	Tutorial Room	31.46	Mechanical Department
7	Tutorial Room	31.46	Electrical Department
8	Tutorial Room	31.46	Electrical Department
9	Tutorial Room	31.46	Civil Department
10	Tutorial Room	31.46	Civil Department

➤ Number of Laboratories and size of Each

Sr. No.	Room Type	Area of room in Sqm	Building Name
1	Laboratory	211.14	Electronics & Communication Department
2	Laboratory	211.14	Electronics & Communication Department
3	Laboratory	211.14	Electronics & Communication Department
4	Laboratory	211.14	Electronics & Communication Department
5	Laboratory	211.14	Electronics & Communication Department
6	Laboratory	146.47	Electronics & Communication Department
7	Laboratory	211.14	Computer Department
8	Laboratory	211.14	Computer Department
9	Laboratory	211.14	Computer Department
10	Laboratory	211.14	Computer Department
11	Laboratory	211.14	Computer Department
12	Laboratory	146.47	Computer Department
13	Laboratory	211.14	Mechanical Department
14	Laboratory	211.14	Mechanical Department
15	Laboratory	211.14	Mechanical Department
16	Laboratory	211.14	Mechanical Department
17	Laboratory	211.14	Mechanical Department
18	Laboratory	146.47	Mechanical Department
19	Laboratory	211.14	Electrical Department
20	Laboratory	211.14	Electrical Department
21	Laboratory	211.14	Electrical Department
22	Laboratory	211.14	Electrical Department
23	Laboratory	211.14	Electrical Department
24	Laboratory	146.47	Electrical Department
25	Laboratory	211.14	Civil Department
26	Laboratory	211.14	Civil Department

27	Laboratory	211.14	Civil Department
28	Laboratory	211.14	Civil Department
29	Laboratory	211.14	Civil Department
30	Laboratory	146.47	Civil Department

➤ Number of Drawing Hall and size of Each

Sr. No.	Room Type	Area of room in Sqm	Building Name
1	Drawing Hall	211.14	Electronics & Communication Department
2	Drawing Hall	211.14	Computer Department
3	Drawing Hall	211.14	Mechanical Department
4	Drawing Hall	211.14	Electrical Department
5	Drawing Hall	211.14	Civil Department

➤ Number of Computer centres and other facilities

Room Type*	Area of Room in sqm*
Language Laboratory	71.03
Library & Reading Room	660
Computer Center	506

➤ Central Examination Facility, Number of rooms and capacity of each: NIL

➤ Online examination Facility (Number of Node, internet bandwidth : :

➤ Barrier free built environment for disabled and elderly persons:

➤ Occupancy Certificate: Available

➤ Fire and Safety Certificate: Available

➤ Hostel Facilities

Girl's Hostel	No of Rooms	Hostel Capacity	Boy's Hostel	No of Rooms for Boys	Total Capacity	Location
Y	40	120	Y	40	120	Within the Campus

## LIBRARY

➤ Number of Library books/Titles/Journals available

Program	Number of Titles*	Number of Volumes*
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ENGINEERING AND TECHNOLOGY	3,507	10,689
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➤ **List of online National/International Journals subscribed.**

1.	Indian Journals of Engineering & Material Science
2.	Indian Foundry Journal
3.	Journal of Scientific And Industrial Research
4.	Indian Science Abstracts(Semi-Monthly)
5.	Current Science (for Engineering college)
6.	Indian Economics and social history review

➤ **E-Library facilities**

Program*	Select Publisher*	Publisher Name
ENGINEERING AND TECHNOLOGY	OTHERS	SAGE Publishing
ENGINEERING AND TECHNOLOGY	Springer	Springer
ENGINEERING AND TECHNOLOGY	OTHERS	MedCrave Group
ENGINEERING AND TECHNOLOGY	OTHERS	Gujarat Technological University
ENGINEERING AND TECHNOLOGY	OTHERS	Hilaris
ENGINEERING AND TECHNOLOGY	OTHERS	Hilaris
ENGINEERING AND TECHNOLOGY	OTHERS	Hilaris
ENGINEERING AND TECHNOLOGY	OTHERS	Hilaris
ENGINEERING AND TECHNOLOGY	OTHERS	iMedPub LTD
ENGINEERING AND TECHNOLOGY	OTHERS	International Organization Of Scientific Research

Laboratory and Workshop:

**List of Major Equipments in Each Laboratory/Workshop**

<b>Civil Engineering</b>			
<b>Sr. No.</b>	<b>Area of room in Sqm</b>	<b>Laboratory Name</b>	<b>Instruments</b>
1	211.14	Surveying	TRANSIT VERNIER THEODOLITE (20SEC)
			TOTAL STATION NTS962R (SOUTH)
			SURVEYORS COMPASS (3 Nos.)
			DUMPY LEVEL (3 Nos.)
			LYNX AUTO LEVEL (3 Nos.)
		Fluid Mechanics	HYDRAULIC BENCH
			Capillary Tube Viscometer Apparatus
			Tilting Flume
			Reynolds Number Apparatus
			LOS ANGELES ABRASION TESTING MACHINE
2	211.14	Transportation	AGGREGATE IMPACT TESTING APPT
			SIEVE SHAKER
			California bearing ratio test Apparatus (Motorized)
			STANDARD PENETROMETER
3	211.14	Concrete	Concrete permeability test apparatus
		Technology	Electric hot plate
			Weighing machine
			Aggregate crushing value apparatus
			Humidity chamber
			Automatic Compression Testing Machine 3000 kN
4	211.14	Environment Lab.	WATER QUALITY ANALYZER
			JAR TEST APPARATUS
			COD ANALYSER
			DIGITAL DO METER
			HIGH VOLUME AIR SAMPLER
5	211.14	Geotechnical Engg. Lab	PLATFORM VIBRATOR
			UNIVERSAL TESTING MACHINE (1000KN)
			PLATE BEARING TEST
			Triaxial Shear Test Apparatus (motorized)
			Universal Automatic Soil Compactor
6	146.47	Computer lab	SIS PERSONAL COMPUTER
			LCD COMPUTER SYSTEM ACER

<b>Computer Engineering Department</b>			
List Equipment			
S.N o.	Item	Configuration	Qty.
1	ACER COMPUTER (A)	AMD 64 - 3800 + 2020GHz, Chipset Mother Board, 512 Mb DDR Ram, 80 GB, HDD, Key board, Optical, Mouse, 17" Monitor, DVD writer, ATX Cabinet, 1.44 MB FDD.	9
2	SIS COMPUTER	AMD PHENON II X 3720 PROCESSOR 2.81GHZ 1.5MB L2 CATCH ,2GB DDL2 ,320 GB SATA HDD 7200RPM HDD, 18.5 LG LCD	36
3	ACER COMPUTER(B)	AMD PHENON II X 3720 PROCESSOR 2.81GHZ 1.5MB L2 CATCH ,2GB DDL2 ,320 GB SATA HDD 7200RPM HDD, 18.5 ACER LCD	18
4	ACER COMPUTER(C)	500 GB STAT HDD ,7200RPM, 4GB DDR3, 5 INCH TCOSTFT	22
5	ACER COMPUTER(D)	500 GB STAT HDD ,7200RPM, 4GB DDR3, 5 INCH TCOSTFT	55
6	DELL COMPUTER	INTEL R CORE I5-4590, 4GB RAM , 64 BIT OS , 500GB HDD	20
7	HP COMPUTER	Intel(R) Core(TM)i7, 8.00 GB RAM, 1TB HDD Graphics Card HPZ240 Tower Workstation	20
8	HCL SPEAKER SET	300 WATT	10
9	HP LASER JET PRINTER	LASERJET PRO M202DW	5
10	PROJECTOR Multimedia	PROJECTOR HITACHI MODEL CP X4030WN	4
11	CANON COPIER MACHINE	DIGITAL COPIER MACHINE	1
12	PODIUM	AUDIO SYSTEM PODIUM	2
13	VISUALIZER	GVP 501	1
14	UPS 5KVA	1 NOS UPS , 15 NOS BATTERY, INDICATIVE BACKUP TIME 120 MINUTS	1
15	UPS 10KVA	4 NOS UPS , 80 NOS BATTERY, INDICATIVE BACKUP TIME 60 MINUTS	4
16	UPS 15KVA	1 NOS UPS , 30 NOS BATTERY, INDICATIVE BACKUP TIME 120 MINUTS	1
17	EXTERNAL HARD	1 TB USB 3.0	1

	DISK		
18	INTERNET SERVER	INTEL XEON PROCESSOR ES 2620V3 DUAL SOCCKET DELL T 430	1
19	AC	HITACHI SPLIT AIR CONDITIONER 2.0TON 3 STAR	19
20	HP LAPTOP	HP	2
21	KONICA PRINTER	MULTIFUNCTIONAL PRINTER PAGE PRO 1580MF	5
22	INTEX LAN SWITCH	16 PORT LAN SWITCH	2
23	SAMSUNG CD W/R (W)	52X CD WRITER	1
24	DIGITAL SETUPBOX	DIGITAL SETUP BOX	1
25	PROJECTOR Multimedia	digital	4
26	D-LINKCAT BABLE	D-LINKCAT5 CABLE (305Mtr.)	1
27	INTEX UPS	500VA UPS OFFLINE	1
28	MICROPROCESSOR TRAINER	8086	2
29	I/O PORT	NETWORKING	140
30	SERVER	MID RANGE SERVERACER AT 350 MONITOR ACER V193HQL	1

<b>Electronics and Communication Engineering Department</b>			
<b>SR no</b>	<b>Item</b>	<b>Configuration</b>	<b>Qty</b>
1	C. R. O. Analog	20 MHz	16
2	Function Generator	3 MHz	10
3	MICROPROCESS TRAINER	8085	4
4	VLSI trainer	Universal	3
5	LCD Projector with Screen		3
6	Antenna RF Transmitter and Receiver Trainer	AKADEMIKA LAB SOLUTIONS(RFL-AMS-A )	2
7	Transmission line Analyser	Amitec-TLA-05	1
8	Microwave Test Bench	AKADEMIKA LAB SOLUTIONS	2
9	Microwave Bench	Lamda	1
10	DIGITAL OSCILLOSCOPE	Agilent(DSOX2024A),200Mhz	3
11	Spectrum Analyser	Keysight (N9342C)	1
12	GSM Trainer Kit	Scientech-2132A	2
13	Radar Trainer Kit	ABVOLT,AB15-651	2
14	Satellite Trainer Kit	ABVOLT,AB15-626	2
15	Convolution Encoder and Viterbi Decoder Kit		3
16	Block code encoder and decoder trainer kit		3
17	Chopper Trainer	Ni-Tech	2
18	Single Phase AC Voltage Controlled Rectifier	Ni-Tech	2
19	Single Phase Controlled Rectifier	Ni-Tech	2
20	Single Phase Dual Converter	Ni-Tech	1
21	Single Phase Inverter Trainer	Ni-Tech	2

22	Switch Mode DC-DC Converter Trainer	Ni-Tech	2
23	Three Phase AC Voltage Controller Trainer	Ni-Tech	2
24	Three Phase Inverter Trainer	Ni-Tech	2
25	Three Phase Rectifiers Trainer	Ni-Tech	2
26	Programmable Function Generator,1 Channel , 50 Mhz	Tektronix,AFG3051C, 1 channel, 50Mhz	1
27	Digital Multimeter (Bench Top)	Keysight-34401A	2
28	Digital Multimeter (Hand Hel)	FKUKE-287	2
29	Workbench Electronics		6
30	Tektronix Oscilloscope model: TDS 1002	TDS-1002	1
31	Tektronix Oscilloscope model: TDS 1012	TDS-1012	1
32	Audio Video Trainer Kits	ABVOLT	1
33	32 inch LCD TV	LG-B-103	2
34	Optical Fiber Lab	Kitek Make-FOCT-01	2
35	Arm 7 microcontroller trainer ""VPL"	VPL-ET2129	1
36	Digital Electronics Lab trainer	SIGMA-BBDM1005	2
37	Computers	DELL	20
38	Computers	ACER	25

Electrical Engineering Department		
Sr. N o	Lab	Major Equipments
1	EEE- Control	Meters, synchro trans-receiver, THERMO COUPLE,LOAD CELL, PIEZO ELECTRIC TRANSDUCER
2	HV	HV tester, R,C divider
3	MACHINES	METERS,AC-DC machines, Panel for load test on 3 phase Induction motor, universal motor , repulsion motor, 3 phase and single phase variac

4	PROCESSOR-ELECTRONICS-MEASUREMENT	Digital, linear, power electronics kits, 8085,8086,8051 kits, Single Phase Series Inverter Three Phase AC Voltage Controller Trainer Three Phase Rectifiers Trainer, Bench isolated channels digital storage oscilloscope, high voltage probes for power measurement, current probe
5	PROTECTION/Power system	GENERATOR,MOTOR, FEEDER PROTECTION UNITS

<b>Mechanical Engineering Department</b>		
<b>Sr. N o</b>	<b>Lab</b>	<b>Major Equipments</b>
1	CAD/CAM	CNC Lathe machine trainer, Pro-E Software, Master cam software, Vertical Machining Centre.
2	FLUID POWER ENGG.	Kaplan Turbine Test Rig, Pelton Turbine Test Rig, Two Stage Reciprocating Air Compressor Test Rig
3	KINEMATICS & DYNAMICS	Cam analysis apparatus, Epy-cyclic gear train apparatus, Gyroscope with motor, Universal Governor
4	METROLOGY	Thermocouple calibration test ring, outside micrometer, Sine bar, vernier caliper, dead weight pressure
5	METTALURGY	Mettalurgical Microscope
6	THERMAL ENGG.	Water cooler & AC, Air conditioning test rig, Plate type heat exchanger appratus.
7	WORK SHOP	Hydraulic Hacksaw, Shaping, Sigma All geared Precision Lathe, Universal milling machine, Dynamometer

# List of Experimental Setup

Branch: Civil Engineering Practical List

## List of Experimental Setup

Branch:- Civil/Appl. Mech.  
Engineering SEM-1 & 2

**Subject Name 1: BASIC CIVIL ENGINEERING      Subject code: 3110004**

Sr. No.	Name of the practical
1	Unit conversation Exercise
2	Chart preparation of various materials. Collection of rate and sample. (field visit)
3	Components of building (field visit)
4	Planning of a residential building( plan, elevation& section of simple 1 room)
5	Assignment based upon town planning module 4
6	Linear and angular measurements (Chain and Compass) ( in field with instrument)
7	Introduction to Theodolite & total station.
8	Determine R.L of given point by Dumpy level. ( in field with instrument)
9	Assignment based upon estimation.( simple, 1 room only)
10	Videos showing working of construction Equipment's
11	Presentation on BRTS / mass transportation system ( city bus)
12	Seminar on green building & smart city

## SEM-III

**Subject Name 1: Geotechnical Engineering**

**Subject code 3130606**

### List of practicals

Sr. No.	Name of the practical	Sr.No.	Name of the practical
1	In-situ Density Tests	7	Sieve analysis
2	Atterberg's Limit Test	8	Permeability Tests
3	Unconfined Compression Test	9	Proctor Compaction Test

4	Triaxial Compression Tests	10	Consolidation /Oedometer test
5	Laboratory Vane Shear Test	11	Direct Box Shear Test
6	SPT	12	CBR Test

**Subject Name 2: Mechanics of Solids**

**Subject code 3130608**

Sr. No.	Name of the practical
1	Equilibrium of coplanar concurrent forces 3.
2	Equilibrium of coplanar non-concurrent forces
3	Equilibrium of coplanar parallel forces: Determination of reactions of simply supported beam
4	Verification of principle of moment: Bell crank lever
5	Determination of parameters of machines (Any two) (a) Wheel and differential axles (b) Single purchase crab (c) Double purchase crab (d) System of pulleys
6	

**Subject Name 3: Building and Town Planning**

**Subject code 3130609**

Sr. No.	Name of the practical
1	Residential Planning: Two storied Building: Plans, elevation, section, lay-out plan, key plan, site plan, area table, schedule of opening. Scale-1:100.
2	Working Drawing: sheet should accommodate min. six types with sectional details of Sheet -1 Planning. (Furniture plan, Drainage lay out, Toilet Detail, Kitchen detail, Electrical plan etc.)
3	Perspective Drawing: Two point perspective of Sheet -1 Planning.
4	Public Building: Ground Floor plan, typical floor plan, elevation, section, lay-out plan, key plan, site plan, area table, schedule of opening.
5	(Prepare Building Drawing (2D, 3D model) of Sheet -1 Planning using Software

**SEM-IV**

**Subject Name 1: SURVEYING**

**Subject code :3140601**

Sr. No.	Name of the practical
1	Plane table traversing by intersection and radiation methods projects

2	Techeometry Survey Project
3	Theodolite traversing and plotting of traverse by applying corrections in Gale's traverse table
4	Setting out simple circular curve by different methods
5	Setting out combined curve (Transition - Circular – Transition)
6	Computation of area of submergence and storage volume from contour maps for reservoir
7	Introduction to modern surveying Instruments

**Subject Name 2: Fluid Mechanics & Hydraulics      Subject code: 3140611**

Sr. No.	Name of the practical	Sr.No.	Name of the practical
1	Measurement of viscosity	7	Study of pressure measurement devices
2	Hydrostatic force and center of pressure on flat/curved surfaces	8	Determine Hydraulic coefficients of a small circular orifice.
3	Stability of Floating body	9	Calibration of flow measuring devices (Venturimeter, Orifice meter, Rectangular and V-notch)
4	Study Characteristics of Laminar and Turbulent flows (Reynolds experiment)	10	Pipe friction
5	Verification of Bernoulli Theorem	11	Uniform flow in Open Channel
6	Similitude and Model Studies	12	CBR Test

SEM-V

**Subject Name 1: TRANSPORTATION ENGINEERING**

**Subject code: 3150611**

Sr. No.	Name of the practical
1	Determination of aggregate crushing Value
2	Determination of aggregate impact value
3	Determination of Los Angeles Abrasion value

4	Determination of shape tests on aggregate
5	Determination of California Bearing Ratio values
6	Determination of viscosity of Bitumen
7	Determination of softening point of bitumen
8	Determination of ductility of the bitumen
9	Determination of flash point and fire point of bitumen
10	Determination of Bitumen content
11	Determination of stripping value of road aggregate
12	Determination of Marshall Stability value for Bituminous mix

**Subject Name 2: PAVEMENT DESIGN AND HIGHWAY CONSTRUCTION**  
**Subject code: 3150613**

Sr. No.	Name of the practical
1	Bituminous mix design
2	Determination of CBR value of various mix
3	Determination of overlay thickness

**Subject Name 3: Soil Mechanics**      **Subject code: 3150615**

Sr. No.	Name of the practical
1	Auger boring/sampling
2	Standard/dynamic cone penetration test
3	Static cone penetration test
4	In situ permeability test
5	Free swell and swell potential
6	Swelling pressure test
7	Model pile load test.
8	Planning site investigations for a real life problem- project mode tests

**SEM-VI**  
**Subject Name 1: ENVIRONMENTAL ENGINEERING Subject code :3160611**

Sr.No.	Name of the practical
1	Physical Characterization of water: Turbidity, Conductivity, pH
2	Analysis of solids content of water: Dissolved, Settleable, suspended, total, volatile, inorganic etc.
3	Determination of Alkalinity and acidity
4	Determination of Hardness: total hardness, calcium and magnesium hardness
5	Determination of Chlorides
6	Determination of Optimum coagulant dose: Jar Test
7	Chemical Oxygen Demand (COD)
8	Dissolved Oxygen (D.O) and Biochemical Oxygen Demand (BOD)
9	Determination of residual chlorine in water
10	Bacteriological quality measurement: MPN,
11	Ambient Air quality monitoring (SPM, SOx, NOx)
12	Ambient noise measurement

**Subject Name 2: Design of Reinforced Concrete structures**

**Subject code: 3160612**

Sr. No.	Name of the practical
1	Full Design of following structures with detailing in A2 size drawing sheet covering all required details in structural drawing. (1) design of G+3 building (design manually & check with software) (2) Retaining wall/water tank
2	Software applications of Multi-storied building subjected to wind and earthquake forces
3	Preparation of EXCLE Worksheets for the design of various structural components of building and/or other structures of the syllabus.
4	Prepare at least one drawing in any CAD software (like AutoCAD) for design of structures conducted in the syllabus.

**SEM-VII**

**Subject Name 1: DESIGN OF STEEL STRUCTURES Subject code: 3170618**

Sr. No.	Name of the practical
1	Full Design of at least 01 structure from the following with detailing in A2 size drawing sheet covering all required details in structural drawing. (1) Rivetted/Welded Plate girder (2) Foot over bridge (3) Gantry Girder

2	Solve at least 05 design examples from the topics covered in the syllabus.
3	Software applications of Connection design of Steel Framed structures & Industrial structures.
4	Preparation of EXCLE Worksheets for the design of various structural components of Plate Girder/ Gantry Girder/ Foot Over bridge.
5	Prepare at least one drawing in any CAD software (like AutoCAD) for design of structures conducted in the syllabus.

### SEM-VIII

**Subject Name 1: REPAIRS & REHABILITATION OF CONCRETE STRUCTURES**

**Subject code: 2180607**

Sr.No.	Name of the practical
1	To perform a non-destructive and semi-destructive testing on the cast specimens of the beams using set up of Rebound hammer, UPSV, Core drilling etc. and there by prepare a report on the interpretation of the strength i.e quality of concrete based on NDT test results.
2	Take up Conditional Assessment of 5 different structures including Residential, Commercial, Industrial, and Government buildings, Private structures (old & new construction both). Prepare Rapid visual inspection data sheets of the same.
3	Prepare a report on the buildings surveyed, to highlight all the defects/deterioration seen through proper resolution photographs. The report must clearly indicate the distress – its source and symptoms.
4	To perform experiment to evaluate the Compatibility between the substrate material concrete and any repair material. (For instance comparing the Bond strength of Polymer modified mortar and Conventional Mortar with Concrete).
5	Experiment investigation to carry out the efficacy of repair material/ technique in enhancing the strength of concrete beam post cracking. ( For instance, Cast a RCC beam, simulate cracking and then filling the crack with repair material and check the post-repair strength results).

**Subject Name2: FOUNDATION ENGINEERING**

**Subject code: 2180609**

Sr.No.	Name of the practical
1	Plate load test (PLT)
2	Standard Penetration test (SPT)

3	Static and Dynamic Cone Penetration test (SCPT-DCPT)
4	Triaxial Shear Test (CD condition)
5	Consolidation test (on soft marine clays)
6	Swell Pressure test
7	CBR test

## **List of Experimental Setup**

**Branch: - Computer Science & Engineering**

**SEM-1**

**BEE : 3110005 : Basic Electrical Engineering**

**List of Practicals**

Sr.No.	Name of the practical
1	Draw the symbols used in electrical and electronic circuit by drawing instruments.
2	Introduction and use of measuring instruments – voltmeter, ammeter, Clip On Meter, multi-meter, Resistors, Capacitors and Inductors.
3	To verify the Network theorems.
4	Perform Voltage, current and power measurement in single phase AC circuit.
5	Measurement of Open circuit voltage & short circuit current of Series -parallel connected Solar PV Modules.
6	Demonstration of cut-section models of DC Motor, 3-phase AC & 1-phase AC Motor and Transformer.
7	Understanding of Residential Building electricity bills and Calculation of individual light Bill by students.
8	To verify the current and voltage relationships in three phase star and delta connections.
9	Demonstration of domestic installations like MCB, ELCB, Fuse, Earthing Plate etc.
10	Demonstration of various types of wires and cables.
11	Understanding of various safety precautions for electrical installations

## **WS : 3110012 : Workshop**

**List of practicals**

Sr.No.	Name of the practical
1	INTRODUCTION ABOUT WORKSHOP AND STUDY ABOUT SAFETY RULES.
2	PERFORMANCE OF FITTING SHOP.
3	PERFORMANCE OF SHEET METAL WORK (TIN SMITHY).
4	PERFORMANCE OF CARPENTRY.
5	PERFORMANCE OF PLUMBING SHOP.

6	STUDY AND PERFORMANCE OF METAL JOINING PROCESS.
7	STUDY ABOUT BLACK SMITHY SHOP.
8	STUDY ABOUT CASTING SHOP.
9	INTRODUCTION ABOUT MACHINE SHOP.
10	Fluorescent Tubelight Wiring
11	Stair case Wiring
12	Mini Project-Make an Extension Board
13	To Implement Arduino code that will blink LED for 1 second.
14	To Connect LED and switch to Arduino board and Implement Arduino code that will turn On and OFF LED using switch.
15	Perform basic OS Commands
16	Study dreamweaver and implement webpage

**EGD : 3110013 : Engineering Graphics & Design**  
**List of practicals**

Sr.No.	Name of the practical
1	Practice Sheet (dimensioning methods, different types of lines, construction of different polygon, divide the line and angle)
2	Plane scale and diagonal scale
3	Loci of points
4	Engineering curves
5	Projection of line
6	Projection of plane
7	Projection of solid, section of solid
8	Development of surfaces
9	Orthographic projection
10	Isometric projection
11	AutoCAD drawing of orthographic projection

**PHY : 3110018 : Physics**

Sr.No.	Name of the practical
1	Study of Forward and Reverse bias Characteristics of p-n junction diode
2	Study of Reverse bias characteristics of Zener diode.
3	Study of Forward bias Characteristics of Light Emitting Diode
4	Determination of Resistivity and Band Gap of Semiconductors by Four Probe Method at different temperatures.
5	(a) Study of the voltage and current of the solar cells in series and parallel combinations  (b) Study of both the current–voltage characteristic and the power curve to find the maximum power point (MPP) and efficiency of a solar cell  (c) Study of the application of solar cells.
6	(a) Determination of Planck's constant using Light Emitting Diode (LED) and draw the V-I characteristic for determine the value of Planck's constant.  (b) Determination of Planck's constant by plotting a curve between Threshold voltage and wavelength of LEDs.
7	(a) To determine the Hall voltage developed across the sample material.  (b) To calculate the Hall coefficient and the carrier concentration of the sample material.

**SEM-2**  
**Programming for Problem Solving: 3110003**  
**List of practical**

Sr.No.	Name of the practical
1	Write Hello world program.
2	Write a program to that performs as calculator ( addition, multiplication, division, subtraction).
3	Write a program to calculate simple interest ( $i = (p * r * n) / 100$ ) $i$ = Simple interest $p$ = Principal amount $r$ = Rate of interest $n$ = Number of years
4	Write a C program to interchange two numbers
5	Write a C program to enter a distance in to kilometre and convert it in to meter, feet, inches and centimetre
6	Write a C program to find that the accepted number is Negative, or Positive or Zero.



35	Write a C program to swap the two values using pointers.
36	Write a C program to print the address of character and the character of string using pointer
37	Write a program for sorting using pointer
38	A file named data contains series of integer numbers. Write a c program to read all numbers from file and then write all odd numbers into file named “odd” and write alleven numbers into file named “even”. Display all the contents of these file on screen

**Basic Mechanical Engineering: 3110006**  
**List of practical**

Sr. No.	Name of the practical
1	To study about various types of boilers
2	To study about various types of Mounting and Accessories of Boilers.
3	To study about Internal Combustion engines.
4	To understand construction and working of different types of compressor
5	To demonstrate vapor compression refrigeration cycle of domestic refrigerator and window air conditioner.
6	To understand construction, working and application of clutches, coupling and brakes
7	To understand different arrangement and application of various power transmission drives

**Basic Electronics: 3110016**  
**List of practical**

Sr. No.	Name of the practical
1	To measure DC voltage and current, AC voltage and current with multi-meter
2	To observe waveforms on oscilloscope, measure basic parameters amplitude and frequency of sine wave and square wave.
3	Obtain VI characteristics of semiconductor rectifier diode
4	To observe waveform at the output of half wave rectifier with and without filter capacitor. To measure DC voltage, DC current, ripple factor with and without filter capacitor
5	To observe waveform at the output of full wave rectifier with and without filter capacitor. To measure DC voltage, DC current, ripple factor with and without filter capacitor
6	To construct clipper circuits on breadboard and To observe waveforms at the output of clipper circuits
7	To construct clamper circuits on breadboard and To observe waveforms at the output of clamper circuits

8	To obtain common emitter characteristics of NPN transistor
9	To obtain common base characteristics of NPN transistor
10	To obtain characteristics of field effect transistor (FET)
11	Verify truth table of basic digital logic gates OR, AND, NOT, NAND, NOR, EX-OR, EX-NOR

**SEM - 3**  
**Data Structure: 3130702**  
**List of practical**

Sr. No.	Name of the practical
1	Introduction to pointers. Call by Value and Call by reference.
2	Introduction to Dynamic Memory Allocation. DMA functions malloc(), calloc(), free() etc. Implement a program for stack that performs following operations using array. (a) PUSH (b) POP (c) PEEP (d) CHANGE (e) DISPLAY
4	Implement a program to convert infix notation to postfix notation using stack.
5	Write a program to implement QUEUE using arrays that performs following operations (a) INSERT (b) DELETE (c) DISPLAY
6	Write a program to implement Circular Queue using arrays that performs following operations. (a) INSERT (b) DELETE (c) DISPLAY
7	Write a menu driven program to implement following operations on the singly linked list. (a) Insert a node at the front of the linked list. (b) Insert a node at the end of the linked list. (c) Insert a node such that linked list is in ascending order.(according to info. Field) (d) Delete a first node of the linked list. (e) Delete a node before specified position. (f) Delete a node after specified position.
8	Write a program to implement stack using linked list.
9	Write a program to implement queue using linked list.
10	Write a program to implement following operations on the doubly linked list. (a) Insert a node at the front of the linked list. (b) Insert a node at the end of the linked list. (c) Delete a last node of the linked list. (d) Delete a node before specified position.
11	10. Write a program to implement following operations on the circular linked list. (a) Insert a node at the end of the linked list. (b) Insert a node before specified position. (c) Delete a first node of the linked list. (d) Delete a node after specified position.
12	Write a program which create binary search tree.
13	Implement recursive and non-recursive tree traversing methods inorder, preorder and postorder traversal.
14	Write a program to implement Queue Sort
15	Write a program to implement Merge Sort
16	Write a program to implement Bubble Sort
17	Write a program to implement Binary Search.

**DBMS: 3130703**  
**List of practical**

Sr. No.	Name of the practical
1	To study DDL-create and DML-insert commands
2	Create table and insert sample data in tables.
3	Perform queries involving predicates LIKE, BETWEEN, IN etc.
4	To Perform various data manipulation commands, aggregate functions and sorting concept on all created tables.
5	To study Single-row functions.
6	Displaying data from Multiple Tables (join)
7	To apply the concept of Aggregating Data using Group functions.
8	To solve queries using the concept of sub query.
9	To apply the concept of security and privileges
10	To study Transaction control commands
11	Write Cursor
12	Write Trigger

**Digital Fundamentals: 3130704**  
**List of practical**

Sr. No.	Name of the practical
1	To study about various digital logic families and measuring parameters.
2	Configure diodes and transistor as logic gates and verify truth table of logic gates.
3	Configuring NAND logic gate as universal gate.
4	Configuring NOR logic gates as universal gate.
5	Implementation of SOP Boolean Logic Functions using logic gates and combinational circuits.
6	Implementation of POS Boolean Logic Functions using logic gates and combinational circuits.
7	Implement Half adder, Full adder, Half subtractor, Full subtractor as digital combinational circuits and verify their truth tables
8	Implement Decoder, Encoder and Code convertor as digital combinational circuit and verify their operations.
9	Implement Multiplexer and DE multiplexer circuits and verify their operations.
10	Study and configure RS, D, JK and T type flip flops and verify their truth tables.
11	Implement N- bit registers and counters and simulate their operations.
12	Perform an experiment which demonstrates function of 4 bit ALU.
13	Study configuration of A to D converters (Counter type ADC, Successive Approximation ADC) and D to A converter (Binary Weighted Resistor, R-2R Ladder).
14	Study about Different types of memories

**SEM - 4**  
**Operating System : 3140702**  
**List of practical**

Sr. No.	Name of the practical
1	Introduction to Linux and Study some basic and advance commands of Linux.
2	Introduction to shell scripts with example.

3	Write a shell script to generate mark sheet of a Student. Take 3 Subjects, calculate and display total marks, percentage and Class obtained by the student.
4	Write a shell script to find factorial of given number N.
5	Write a shell script which will accept a number and display first N prime numbers as output.
6	Write a shell script which will generate first N Fibonacci like: 1,1,2,3,5,13
7	<p>Write a menu driven shell script which will print the following menu and execute given task.      Menu is as follows:</p> <ul style="list-style-type: none"> <li>Display calendar of current month</li> <li>Display today's date and time</li> <li>Display username those are currently logged in system</li> <li>Display your name at given x, y position</li> <li>Display your terminal number</li> <li>Exit</li> </ul>
8	Write a shell script to read a numbers as command arguments and sort them in descending order.
9	Write a shell script to display all executable files, directories and zero sized files from current directory.
10	Write a shell script to check entered string is palindrome or not.
11	Shell programming using filters (including grep, egrep, fgrep).
12	Study of Unix shell and Environment Variables.
13	Write a shell script to validate the entered date. (e.g. Date format is : dd-mm-yyyy).
14	Write a awk program using function, which convert each word in a given text into capital.
15	Write a program for process creating using C (Use of gcc compiler).

### Object Oriented Programming – 1 : 3140705 List of practical

Sr. No.	Name of the practical
1	Write a Program that displays Welcome to Java, Learning Java Now and Programming is fun
2	Write a program that solves the following equation and displays the value x and y: 1) $3.4x + 50.2y = 44.5$ 2) $2.1x + .55y = 5.9$ (Assume Cramer's rule to solve equation $ax+by=e$ $x=ed-bf/ad-bc$ $cx+dy=f$ $y=af-ec/ad-bc$ )
3	Write a program that reads a number in meters, converts it to feet, and displays the result.
4	Write a program that prompts the user to enter three integers and display the integers in decreasing order
5	<p>Body Mass Index (BMI) is a measure of health on weight. It can be calculated by taking your weight in kilograms and dividing by the square of your height in meters. Write a program that prompts the user to enter a weight in pounds and height in inches and displays the BMI.</p> <p>Note:- 1 pound=.45359237 Kg and 1 inch=.0254 meters</p>

6	Write a program that prompts the user to enter a letter and check whether a letter is a vowel or constant.
7	Write a program that reads an integer and displays all its smallest factors in increasing order. For example if input number is 120, the output should be as follows:2,2,2,3,5
8	Write a method with following method header. public static int gcd(int num1, int num2) Write a program that prompts the user to enter two integers and compute the gcd of two integers.
9	Write a test program that prompts the user to enter ten numbers, invoke a method to reverse the numbers, display the numbers.
10	Write a program that creates a Random object with seed 1000 and displays the first 100 random integers between 1 and 49 using the NextInt (49) method
11	Write a program for calculator to accept an expression as a string in which the operands and operator are separated by zero or more spaces. For ex: 3+4 and 3 + 4 are acceptable expressions.
12	Write a program that creates an Array List and adds a Loan object , a Date object , a string, and a Circle object to the list, and use a loop to display all elements in the list by invoking the object's to String() method.
13	Write a program that generate 6*6 two-dimensional matrix, filled with 0's and 1's , display the matrix, check every raw and column have an odd number's of 1'
14	Write a program to create a file name 123.txt, if it does not exist. Append a new data to it if it already exist. Write 150 integers created randomly into the file using Text I/O. Integers are separated by space.
15	Write a program that displays the color of a circle as red when the mouse button is pressed and as blue when the mouse button is released.
16	Write a GUI program that use button to move the message to the left and right and use the radio button to change the color for the message displayed.
17	Write a recursive method that returns the smallest integer in an array. Write a test program that prompts the user to enter an integer and display its product

**Computer Organization : 3140707**  
**List of practical**

Sr. No.	Name of the practical
1	To study about 8085 microprocessor architecture
2	Design Complete list of instructions set of 8085 Microprocessor
3	To study about 8085 simulator
4	Write and Test 8085 assembly language program that demonstrate the use of data transfer instructions
5	Write and Test 8085 assembly language program that demonstrate the use of arithmetic instruction.

6	Write and Test 8085 assembly language code to find the factorial of a number.(use of branching instructions)
7	Write and Test 8085 assembly language code to implement logical instructions.
8	write and test 8085 assembly language code to transfer block of data from one memory location to another location in memory
9	Write and Test 8085 assembly language code to arrange numbers in ascending order in memory location.
10	Write and test 8085 assembly language code to find minimum and maximum number from array of data stored in memory
11	Write and test 8085 assembly language code to add and subtract two 16 bits numbers.
12	Write and test 8085 assembly language code to implement subtraction using 2's and 1's complement method.
13	Use Booth algorithm to multiply given 2 numbers.
14	Design 1 bit ALU using Logisim.

**SEM - 5**  
**Analysis and Design of Algorithms: 3150703**  
**List of practical**

Sr. No.	Name of the practical
1	Implementation and Time analysis of sorting algorithms. Bubble sort, Selection sort, Insertion sort, Merge sort and Quick sort
2	Implementation and Time analysis of linear and binary search algorithm.
3	Implementation of max-heap sort algorithm
4	Implementation and Time analysis of factorial program using iterative and recursive method
5	Implementation of a knapsack problem using dynamic programming
6	Implementation of chain matrix multiplication using dynamic programming

7	Implementation of making a change problem using dynamic programming
8	Implementation of a knapsack problem using greedy algorithm
9	Implementation of Graph and Searching (DFS and BFS)
10	Implement prim's algorithm
11	Implement kruskal's algorithm
12	Implement LCS problem

**Computer Networks : 3150710**  
**List of practical**

Sr. No.	Name of the practical
1	Study of different network devices in detail.

2	Study of different types of network cables and practically implement the cross-wired cable and straight through cable using crimping tool.
3	Study of basic network command and Network configuration commands.
4	Implement different LAN topologies using Network Simulator.
5	Implement the concept of VLAN using Network Simulator.
6	Implement the concept of static routing.
7	Implement the concept of dynamic routing (RIP, OSPF, BGP).
8	Packet capture and header analysis by wire-shark (TCP, UDP, IP).

**Python for Data Science : 3150713**  
**List of practical**

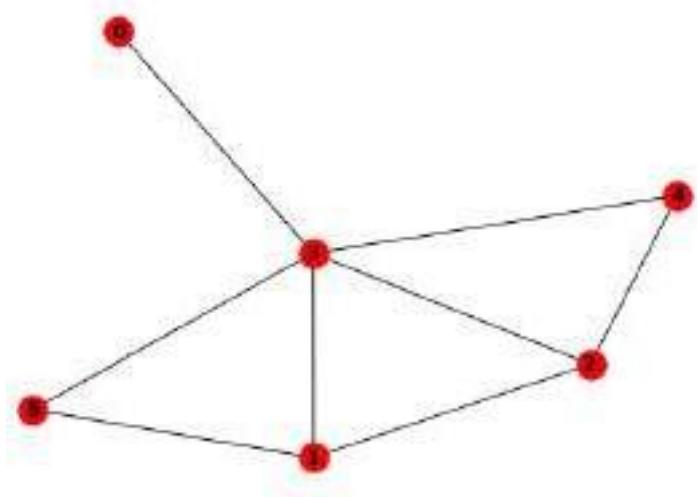
Sr. No.	Name of the practical
1	Python program to print all Prime numbers in an Interval.
2	Python Program for n-th Fibonacci number
3	Python Program for Sum of squares of first n natural numbers
4	Python Program for array rotation
5	Python Program to Split the array and add the first part to the end
6	Python Program to check if given array is Monotonic Input : 6 5 4 4 Output : true Input : 5 15 20 10 Output : false
7	Python program to find second largest number in a list
8	Python program to print even numbers in a list <b>Example:</b> <b>Input:</b> list1 = [2, 7, 5, 64, 14] <b>Output:</b> [2, 64, 14]  <b>Input:</b> list2 = [12, 14, 95, 3] <b>Output:</b> [12, 14]
9	Program to print duplicates from a list of integers <b>Examples :</b> Input : list = [10, 20, 30, 20, 20, 30, 40, 50, -20, 60, 60, -20, -20] Output :output_list = [20, 30, -20, 60]
	Input : list = [-1, 1, -1, 8] Output :output_list = [-1]
10	Count occurrences of an element in a list  Input :lst = [15, 6, 7, 10, 12, 20, 10, 28, 10] x = 10 Output : 3 10 appears three times in given list. Input :lst = [8, 6, 8, 10, 8, 20, 10, 8, 8] x = 16 Output : 0

11	<p>Python program to find N largest elements from a list</p> <p>Input : [4, 5, 1, 2, 9] N = 2 Output : [9, 5]</p> <p>Input : [81, 52, 45, 10, 3, 2, 96] N = 3 Output : [81, 96, 52]</p>
----	---

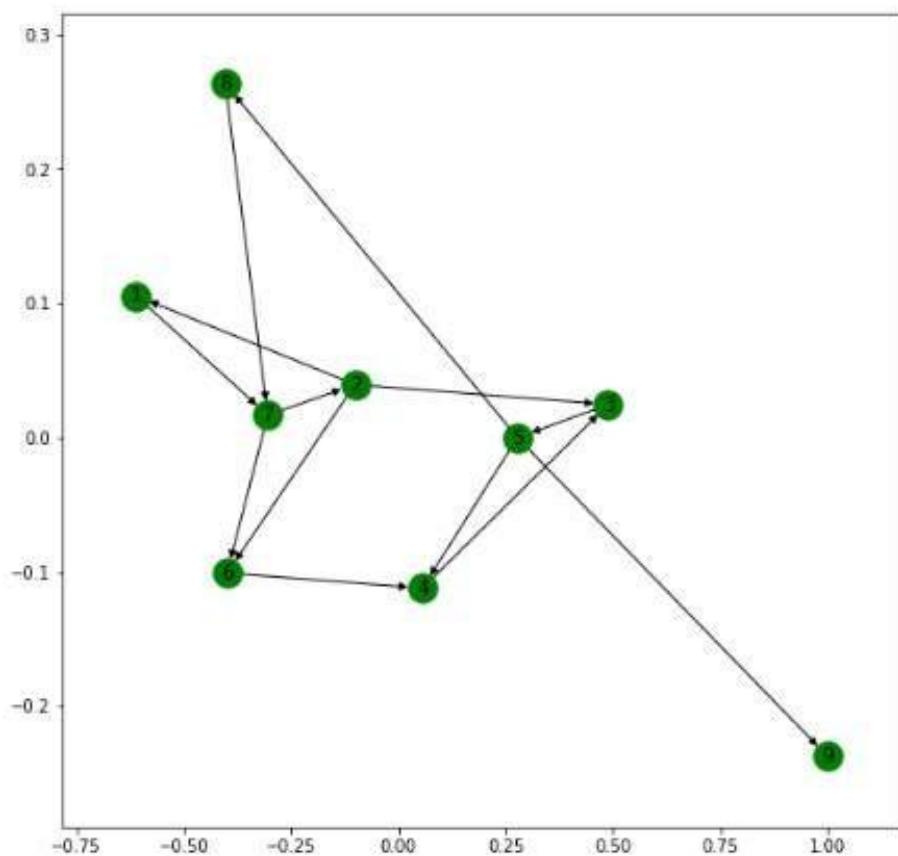
## Set-2: Python Programming

Prog-1	<a href="https://raw.githubusercontent.com/mwaskom/seaborn-data/master/diamonds.csv">https://raw.githubusercontent.com/mwaskom/seaborn-data/master/diamonds.csv</a>
(Pandas)	<p>Download dataset from given link and apply following operation on this dataset.</p> <ol style="list-style-type: none"> <li>1. Write a Pandas program to read a csv file from a specified source and print the first 10 rows.</li> <li>2. Write a Pandas program to read a dataset from diamonds DataFrame and modify the default columns values and print the first 6 rows.</li> <li>3. Write a Pandas program to select a series from diamonds DataFrame. Print the content of the series.</li> <li>4. Write a Pandas program to create a new 'Quality? color' Series (use bracket notation to define the Series name) of the diamonds DataFrame.</li> <li>5. Write a Pandas program to find the number of rows and columns and data type of each column of diamonds Dataframe.</li> <li>6. Write a Pandas program to rename two of the columns of the diamonds Dataframe.</li> <li>7. Write a Pandas program to remove the second column of the diamonds Dataframe.</li> <li>8. Write a Pandas program to remove multiple rows at once (axis=0 refers to rows) from diamonds Dataframe.</li> <li>9. Write a Pandas program to sort the 'cut' Series in ascending order (returns a Series) of diamonds Dataframe.</li> <li>10. Write a Pandas program to sort the entire diamonds DataFrame by the 'carat' Series in ascending and descending order.</li> <li>11. Write a Pandas program to filter the DataFrame rows to only show carat weight at least 0.3.</li> <li>12. Write a Pandas program to find the details of the diamonds where length&gt;5, width&gt;5 and depth&gt;5.</li> <li>13. Write a Pandas program to drop all non-numeric columns from diamonds DataFrame.</li> <li>14. Write a Pandas program to calculate the mean of each numeric column of diamonds DataFrame.</li> <li>15. Write a Pandas program to calculate count, minimum, maximum price for each cut of diamonds DataFrame.</li> </ol>

Prog-2 (Matplotlib)	<ol style="list-style-type: none"> <li>1. Write a Python program to plot two or more lines on same plot with suitable legends of each line.</li> <li>2. Write a Python program to plot two or more lines and set the line markers.</li> <li>3. Write a Python program to plot quantities which have an x and y position.</li> <li>4. Write a Python programming to display a bar chart of the popularity of programming Languages. Sample data: Programming languages: Java, Python, PHP, JavaScript, C#, C++ Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7</li> <li>5. Write a Python program to draw a scatter plot comparing two subject marks of Mathematics and Science. Use marks of 10 students. Sample data:</li> </ol> <pre style="margin-left: 40px;">Test Data: math_marks = [88, 92, 80, 89, 100, 80, 60, 100, 80, 34] science_marks = [35, 79, 79, 48, 100, 88, 32, 45, 20, 30]</pre>
Prog-3 NumPy	<ol style="list-style-type: none"> <li>1. Write a NumPy program to create an element-wise comparison (greater, greater_equal, less and less_equal) of two given arrays.</li> <li>2. Write a NumPy program to create a null vector of size 10 and update sixth value to 11. [ 0. 0. 0. 0. 0. 11. 0. 0. 0. ] Update sixth value to 11 [ 0. 0. 0. 0. 0. 11. 0. 0. 0. ]</li> <li>3. Write a NumPy program to find common values between two arrays. Expected Output: Array1:[0 10 20 40 60] Array2:[10, 30, 40] Common values between two arrays: [10 40]</li> <li>4. Write a NumPy program to find the set difference of two arrays. The set difference will return the sorted, unique values in array1 that are not in array2.</li> <li>5. Write a NumPy program to create a new shape to an array without changing its data. Reshape 3x2: [[1 2] [3 4] [5 6]] Reshape 2x3: [[1 2 3] [4 5 6]]</li> </ol>
	1.draw this graph



2. draw this graph and apply following operation



1. PRINT TOTAL NUMBER OF NODES.
2. PRINT TOTAL NUMBER OF EDGES.
3. PRINT LIST OF ALL THE NODES.
4. PRINT LIST OF ALL THE EDGES.
5. PRINT IN-DEGREE FOR ALL THE NODES.

**6 . PRINT OUT-DEGREE FOR ALL THE NODES.**

- PRINT TOTAL NUMBER OF SELF-LOOPS.
- PRINT SUCCESSOR OF NODE 2.
- PRINT PREDECESSOR OF NODE 2.

**Set-3: Beautiful soup, RE, NLP**

Write a program to read html file using beautiful soup library and parse

Prog-1 following information.

1. To read all the hyperlink
2. To real head part
3. To real table data

After reading all the information show in proper format.

Write a Regular expression code to verify email

Prog-2 address. Example: abc@gmail.com

Write NLP program using NLTK library to read text data from website  
Prog-3 and convert into appropriate feature table using Bag of words method.

Write NLP program using NLTK library to read text data from website  
Prog-4 and convert into appropriate feature table using TF-TDF method.

**SEM - 6**

**Advance JAVA: 3160707**

**List of practical**

Sr. No.	Name of the practical
1	Create simple program to send and display hello message using TCP and UDP
2	Create JSP Page with Different type of the Tags like Expression Tag, Scriptlet Tag Etc.
3	Create JSP pages with Servlet file which contains following functions: 1. Connect 2. Create Database 3. Create Table 4. Insert Records into respective table 5. Update records of particular table of database 6. Delete Records from table. 7. Delete table and also database
4	Use following types in above practical: 1. Statement 2. Prepared statement 3. Callable statement
5	Create login form and perform state management using Cookies, Http session and URL Rewriting
6	Implement Authentication filter using filter API
7	Create database of student subject-wise data and retrieve all data using JSP.(in proper format)
8	Create JSP page to perform various operation on Result set
9	Create a custom tag in java which convert the input string into uppercase
10	Study and implement Hibernate
11	Study and implement JSF for event handling with Database
12	Study and Implement MVC using Spring Framework

**Computer Networks & Security : 3160606**  
**List of practical**

Sr. No.	Name of the practical
1	Implement Caesar Cipher Encryption-Decryption.
2	Implement Monoalphabetic Cipher Encryption-Decryption.
3	Implement Playfair Cipher Encryption-Decryption.
4	Implement Hill Cipher Encryption-Decryption.
5	Implement RSA Encryption-Decryption Algorithm.
6	Implement Rail Fence. Analyze The Strength Of The Cipher In Terms Of Cryptanalysis.
7	Read Traffic Going On Network. Analyze The Traffic. Connect To Internet And Read What Is Going On Internet Using Wireshark.
8	Implement Euclid algorithm to find GCD.

**Web Programming : 3160713**  
**List of practical**

Sr. No.	Name of the practical
1	Make resume with the help of basic HTML tags.
2	Write a HTML code to display student registration form.
3	Develop a website on your chosen topic only using HTML.
4	Use CSS in resume which was made using only HTML tags.
5	Write HTML snipped with CSS to 1. Change background color of webpage 2. Set an image as a background 3. Manipulate a background image so it can be repeated over an area
6	Write a CSS code that create table with odd rows white color and even rows blue color.
7	Write a CSS code to provide link after visited blue color and before visited red color.
8	Write the following styles in separate CSS file and also show how to link this CSS file in HTML file.  1. The headings should have normal font style and font size should be 120%. 2. Apply a background image “abcd.jpg”. Write a paragraph about it and define a class arial for paragraph which defines font family.
9	Use CSS in the website developed in Practical-1(4).
10	Write a JavaScript to find first 10 prime numbers.
11	Write a JavaScript to print characters of a string at odd position
12	Write a JavaScript that uses a loop that searches a word in sentence held in an array returning the index of the word.
13	Write a sample program to demonstrate how a user defined objects are created in JavaScript? How a constructor can be used to populate data object?

14	Design a form using HTML and JavaScript that asks the user to enter his date of birth and on clicking the Calculate Button it calls the function that calculates how many days are left in your birthday? (Age)
15	Design a login form using HTML & JavaScript with following validations on username and password fields. 1. Password length must be 6 to 12 characters 2. Username should not start with _, @ or number. 3. Both should not be blank.
16	Use JavaScript in the website developed in Practical-2(6).
17	Write PHP program to print whether given no is odd or even.
18	Write a PHP program to find whether entered year is leap year or not.
19	Write PHP program to print first N Fibonacci number.
20	Write a PHP script to print following pattern. 1 ab 234 cdef 56789
21	Create a database called country and create table called city having fields (cityname, area, population) using PHP commands. Create HTML form to get the city data and write a script to insert that data into the table.
22	Write a PHP script to validate email address using Regular Expression when user click on SUBMIT button.
23	Write a PHP program to upload image. And also check file size should not greater than 30 KB.
24	Write PHP code to read data from a text file and display it in browser.
25	Use PHP and data connectivity in the website developed in Practical-3(7).
26	Using ajax retrieve data from a XML file and display it.
27	Create Image slider using JQuery.

**Data Mining :  
3160714 List of  
practical**

Sr. No.	Name of the practical
1	Demonstrate the use of ARFF files taking input and display the output of the files.
2	Create your own excel file. Convert the excel file to .csv format and prepare it as ARFF files.
3	Preprocess and classify Customer dataset.
4	Perform Preprocessing, Classification techniques on Agriculture dataset.
5	Preprocess and classify Weather dataset.
6	Perform Clustering technique on Agriculture dataset.
7	Classify the dataset using a decision tree.
8	Perform Association technique on Customer dataset.
9	Compare various Data Mining techniques available in WEKA
10	Apply filters on the customer dataset using WEKA.
11	Demonstration of Weka Explorer, Mining techniques and Attribute Relation File Format (ARFF).
12	Basics Of R Programming

**Internet of Things: 3160716**  
**List of practical**

Sr. No.	Name of the practical
1	ESP8266 as Web server - host a simple webpage for controlling (on/off) LED on esp8266.
2	ESP8266 + Thing speak - Send periodic temperature data to cloud using esp8266.
3	Interface ultrasonic sensor with ESP8266. Print distance to an object present in front of sensor. If no object is there print no obstacle.
4	Interface MQ2 smoke sensor with ESP8266. Use it for detecting gas concentration above 300 ppm.
5	Set up Raspberry Pi. Control LED attached to raspberry pi using python programming. Use IDE of your convenience.
6	Relay + ESP8266 - Control light by connecting physical switch with relay using ESP8266
7	Implement as shown in image attached. Choose any form of broker as you wish.

	<p>The diagram illustrates a network architecture. At the top is a smartphone labeled 'smartphone (SP)'. Below it is a rectangular box labeled 'Server (broker)'. Three circular nodes are connected to the broker: 'Node 1 (Client)' on the left, 'Node 2 (Client)' at the bottom left, and 'Node 3 (Client)' on the right. An arrow points from Node 1 to the broker. Another arrow points from the broker to Node 3. To the left of Node 2 is a label 'temperature sensor in room 1'. To the right of Node 3 is a label 'bulb in room 1'.</p> <p><b>Node 1 : subscribe topic temperature of node 2 and publish topic bulb on/off to network</b></p> <p><b>Node 2: publish topic temperature to network</b></p> <p><b>Node 3: subscribe topic bulb on/off of node 1</b></p>
8	Implement a system which opens up a door when some known person visits your house using Raspberry Pi using python programming.
9	Implement a system which opens up a door when some known person visits your house using Raspberry Pi using python programming.
10	Explain working of LDR. Interface LDR with ESP8266. Implement a system which triggers an alarm when value of ldr sensor goes above 20.

**SEM-7**  
**Compiler Design: 2170701**  
**List of practical**

Sr. No.	Name of the practical
1	To Study about Lexical Analyzer Generator (LEX) and Flex (Fast Lexical Analyzer).
2	Write a C program to identify whether a given line is a comment or not.
3	Write a C program to test whether a given identifier is valid or not.
4	Write a C program to simulate lexical analyzer for validating operators.
5	Design a lexical analyzer for given language and the lexical analyzer should ignore redundant spaces, tabs and new lines. It should also ignore comments. Although the syntax specification states that identifiers can be arbitrarily long, you may restrict the length to some reasonable value. Simulate the same in C language.
6	<p>Implement following programs using Lex.</p> <p>a. Create a Lexer to take input from text file and count no of characters, no. of lines &amp; no. of words.</p> <p>b. Write a Lex program to count number of vowels and consonants in a given input string.</p>
7	<p>Implement following programs using Lex.</p> <p>a. Write a Lex program to print out all numbers from the given file.</p>

	<p>b. Write a Lex program to printout all HTML tags in file.</p> <p>c. Write a Lex program which adds line numbers to the given file and display the same onto the standard output.</p>
8	Write a Lex program to count the number of comment lines in a given C program. Also eliminate them and copy that program into separate file.
9	Write a C program for implementing the functionalities of predictive parser for the mini language.
10	Write a C program for constructing of LL (1) parsing.
11	Write a C program for constructing recursive descent parsing.
12	Write a C program to implement LALR parsing.
13	Write a C program to implement operator precedence parsing.
14	To Study about Yet Another Compiler-Compiler(YACC).
15	Create Yacc and Lex specification files to recognizes arithmetic expressions involving +, -, * and / .
16	Create Yacc and Lex specification files are used to generate a calculator which accepts integer and float type arguments.

**Information and Network Security: 2170709**  
**List of practical**

Sr. No.	Name of the practical
1	Implement Caesar cipher encryption-decryption
2	Implement Monoalphabetic cipher encryption-decryption
3	Implement Playfair cipher encryption-decryption
4	Implement Polyalphabetic cipher encryption-decryption
5	Implement Hill cipher encryption-decryption
6	To implement Simple DES or AES
7	Implement Diffi-Hellmen Key exchange Method
8	Implement RSA encryption-decryption algorithm
9	Write a program to generate SHA-1 hash
10	Implement a digital signature algorithm
11	Perform various encryption-decryption techniques with cryptool
12	Study and use the Wireshark for the various network protocols

**Mobile Computing and Wireless Communication : 2170710**  
**List of practical**

Sr. No.	Name of the practical
1	Write a program to simulate Fixed Time Division Multiplexing. Take 12 stations. Every Station has time slice of 417 microseconds. Delay should be 10ms. Every time the station Gets turn, it shows message.
2	Write a program to display Hello Message in Android.
3	Write a program to create Toast Message in Android.
4	Develop calculator application in Android.
5	Write a program to create Menu List In Android.
6	Write a program to create Calendar in Android.
7	Write a program to find hamming distance. For example Hamming distance $d(v_1, v_2) = 3$ if $v_1 = 011011, v_2 = 110001$ .
8	Write a program to perform Bluetooth file transfer.
9	Develop an android app which displays a form to get information from user.
10	Using Android, Create a login Activity. It asks “username” and “password” from user. If username and password are valid, it displays Welcome message using new activity.
11	Write a program that identifies the Bluetooth devices in the wireless range.

**Data Mining and Business Intelligence: 2170715**  
**List of practical**

Sr. No.	Name of the practical

1	Demonstrate the use of ARFF files taking input and display the output of the files.
2	Create your own excel file. Convert the excel file to .csv format and prepare it as ARFF files.
3	Preprocess and classify Customer dataset.
4	Perform Preprocessing, Classification techniques on Agriculture dataset.
5	Preprocess and classify Weather dataset.
6	Perform Clustering technique on Agriculture dataset.
7	Classify the dataset using a decision tree.
8	Perform Association technique on Customer dataset.
9	Compare various Data Mining techniques available in WEKA
10	Apply filters on the customer dataset using WEKA.
11	Demonstration of Weka Explorer, Mining techniques and Attribute Relation File Format (ARFF).
12	Basics Of R Programming

**SEM - 8**  
**Artificial Intelligence: 2180703**  
**List of practical**

Sr. No.	Name of the practical
1	Write a Turbo PROLOG program for Family Relationship
2	Write a Turbo PROLOG program that list address in a label form, each address should list a name, one-line address, city, state & ZIP code.
3	Write a Turbo PROLOG program for diagnosis the childhood.
4	Write a Turbo PROLOG program to calculate the roots of quadratic equation (Consider all possibilities real, equal, imaginary).
5	Write a Turbo PROLOG program based on Reversing list.
6	Write a Turbo PROLOG program checking for password.
7	Write a Turbo PROLOG program for Arithmetic Operations - Factorial - Fibonacci Series
8	Write a Turbo PROLOG program to find Minimum from given 3 Numbers.
9	Write a Turbo PROLOG program to implement Tower of Hanoi.
10	Write a Turbo PROLOG program for finding the average salary of an employee and for adding and deleting employees from the database.

**Python Programming: 2180711**  
**List of practical**

Sr. No.	Name of the practical
1	Write a python program to implement Fibonacci sequence for given input.
2	Write a python program to implement is Palindrome() function to check given string is palindrome or no.
3	Write a python program that finds the factorial of a natural number n.
4	Write a Python program to remove duplicates from a list
5	Write a Python program to find the second smallest number in a list
6	Write a Python program to sort a dictionary by key
7	Write a Python program to remove an item from a tuple.

8	Write a Python program to reverse a tuple
9	Write a Python program to check if a set is a subset of another set
10	Write a python program to implement Student class which has method to calculate CGPA. Assume suitable class variables.
11	Write a python program to implement multiple inheritance.
12	Write a python program that creates a class Student having attributes {Enrollement_No, Name} and methods set_data that takes the values from the user and assigns them to attributes of the class and an operator overloading function that converts Student object to string. Also create a Class variable student_count that will maintain the count of Student Instances and a method that will display this count.
13	Write a Python program to create class GTU with attributes like class variable cnt, instance variables x and y, instance methods get_value and print_value.
14	Write a python program that reads a text file and changes the file by capitalizing each character of file.
15	Write a python program to read line by line from a given files file1 & file2 and write into file3.
16	Write a python program to implement linear search and binary search.
17	Write a python program to implement merge sort.
18	Write a python program to implement Caesar cipher.
19	Write a python GUI program to implement calculator using Tkinter library.
20	Write a simple python program that draws a line graph where x = [1, 2, 3, 4] and y = [1, 4, 9, 16] and gives both axis label as “X-axis”and “Y-axis” using pylab.
21	Develop chat application using Multithreading in Python
22	Draw Circle and Triangle shapes using Turtle and fill them with red color

### **List of Experimental Setup**

**Branch: - Electronics & Communication Engineering  
SEM-1**

**Subject Name 1 : Workshop/ Manufacturing Practices  
Subject code 3110012**

### **List of Practical's**

Sr. No.	Name of the practical
1	Introduction to basic electronics components and its testing: Resistors, Inductors, Capacitor, Diode, BJT.
2	Introduction to testing and Measurement Instruments: Power Supply, Function Generator, and Oscilloscope.
3	Introduction to Arduino starter kits or raspberry pi.

### **SEM-I**

**Subject Name : Basic Electronics Subject code :  
3110016**

### **List of Practical's**

Sr. No.	Name of the practical
1	To measure DC voltage and current, AC voltage and current with multi-meter.
2	To observe waveforms on oscilloscope, measure basic parameters amplitude and frequency of sine wave and square wave.
3	Obtain VI characteristics of semiconductor rectifier diode.
4	To observe waveform at the output of half wave rectifier with and without filter capacitor. To measure DC voltage, DC current, ripple factor with and without filter capacitor.
5	To observe waveform at the output of full wave rectifier with and without filter capacitor. To measure DC voltage, DC current, ripple factor with and without filter capacitor.
6	To construct clipper circuits on breadboard and To observe waveforms at the output of clipper circuits.
7	To construct clamper circuits on breadboard and To observe waveforms at the output of clamper circuits.
8	To obtain common emitter characteristics of NPN transistor.
9	To obtain common base characteristics of NPN transistor.
10	To obtain characteristics of field effect transistor (FET).
11	Verify truth table of basic digital logic gates OR, AND, NOT, NAND, NOR, EX-OR, EX-NOR.

### **SEM-III**

**Subject Name : Control Systems**

**Subject code : 3131101**

#### **List of Practical's**

Sr. No.	Name of the practical
1	To Obtain Transfer Function From Zeros And Poles
2	To Obtain Zeros And Poles From Transfer Function

3	To Obtain Step Response Of A Transfer Function
4	To Obtain Impulse Response Of A Transfer Function
5	To Obtain Ramp Response Of A Transfer Function
6	To Obtain Time Response Of A Second Order System
7	To Obtain Transfer Function Of A D.C Motor
8	To Obtain State Model From Transfer Function
9	To Obtain State From Zeros And Poles
10	To Obtain Zeros And Poles From State Model
11	To study about PID CONTROLLER.
12	To study about LAG and LEAD COMPENSATORS.

**Subject Name : Network Theory**

**Subject code : 3131103**

#### **List of Practical's**

Sr. No.	Name of the practical
1	To measure and calculate currents and voltages for a given resistive circuit and verify KCL and KVL.
2	To study and verify superposition theorem experimentally for a given resistive circuit consisting two independent sources.
3	To study and verify Thevenin's theorem experimentally for a given circuit.
4	To study and verify Norton's theorem experimentally for a given circuit.
5	To study and verify maximum power transfer theorem experimentally for a given circuit.

6	To study and verify reciprocity theorem experimentally for a given circuit.
7	To measure and calculate RC time constant for a given RC circuit.
8	To measure and calculate RL time constant for a given RL circuit.
9	To measure and analyze (settling time, overshoot, undershoot, etc.) step response of for a given series RLC circuit for following cases: (1) $\zeta=1$ (critically damped system), (2) $\zeta > 1$ (over damped system), (3) $\zeta < 1$ (under damped system). Choose appropriate values of R, L, and C to obtain each of above cases one at a time.
10	To measure and calculate Z-parameters for a given two-port system.
11	To measure and calculate Y-parameters for a given two-port system.
12	To measure and calculate h-parameters for a given two-port system.
13	To measure and calculate ABCD-parameters for a given two-port system

**Subject Name : Digital System Design**

**Subject code : 3131102**

#### **List of Practical's**

Sr. No.	Name of the practical
1	Getting familiar with various digital integrated circuits of different logic families. Study of datasheet of these circuits and see how to test these circuits using Digital IC Tester.
2	Configure transistor as logic gates and Digital ICs for verification of truth table of logic gates.
3	Configuring NAND and NOR logic gates as universal gates.
4	Implementation of Boolean Logic Functions using logic gates and combinational circuits. Measure digital logic gate specifications such as propagation delay, noise margin, fan in and fan out.
5	Study and configure various digital circuits such as adder and subtractor.
6	Study and configure multiplexer and demultiplexer circuits.
7	Study and configure Binary to gray and gray to binary code converters.
8	Study and configure RS flip-flop, JK flip-flop, D flip-flop and T flip-flop.
9	Study and configure negative edge trigger of 3-bit up and down counter.
10	Introduction to HDL. Use of Verilog HDL in simulation of digital circuits studied in previous sessions using integrated circuits. Illustrative examples using FPGA or CPLD boards.

#### **SEM-IV**

**Subject Name : Analog Circuit Design Subject  
Subject code 3141002**

#### **List of Practical's**

Sr. No.	List of Practical

1	To build transistor based RC phase shift oscillator circuit, measure and verify its frequency of operation.
2	Measurement of input and output offset voltage of 741 ICs.
3	To configure op-amp in voltage follower mode and to measure its slew rate.
4	To configure op-amp in inverting and non-inverting amplifier mode and measure their gain and bandwidth.
5	To measure PSRR and CMRR of given op-amp.
6	To prepare full-wave rectifier using op-amp and verify its operation using measurements.
7	To design Schmitt trigger circuit using op-amp and take measurements of $V_{lt}$ and $V_{ut}$ .
8	Design and test a function generator that can generate square wave and triangular wave output for a given frequency.
9	To design, build astable and monostable multivibrators using 555 IC and verify their operation using measurements by observing waveforms.
10	Design butter-worth band-pass filter for the given higher and lower cut-off frequencies.

**Subject Name : Signals and  
Systems Subject code 3141005**

**List of Practical's**

Sr. No.	Name of the practical
1	Introduction to Matlab and Signal Processing Toolbox.
2	Generation of Sine, Cosine Sequences
3	Generation of Impulse, Ramp, Step, Exponential & Rectangular Sequences.
4	Folding of Given sequence
5	Shifting of Given sequence
6	Impulse Response of Given Sequence.
7	Z-transform of given sequence.
8	Inverse Z-transform of given sequence.
9	Linear convolution of given Sequence.
10	Deconvolution of given Sequence.

**SEM-IV**

**Subject Name : Analog Circuit Design Subject  
Subject code: 3141002**

**List of Practical's**

Sr. No.	List of Practical

1	To build transistor based RC phase shift oscillator circuit, measure and verify its frequency of operation.
2	Measurement of input and output offset voltage of 741 ICs.
3	To configure op-amp in voltage follower mode and to measure its slew rate.
4	To configure op-amp in inverting and non-inverting amplifier mode and measure their gain and bandwidth.
5	To measure PSRR and CMRR of given op-amp.
6	To prepare full-wave rectifier using op-amp and verify its operation using measurements.
7	To design Schmitt trigger circuit using op-amp and take measurements of $V_{lt}$ and $V_{ut}$ .
8	Design and test a function generator that can generate square wave and triangular wave output for a given frequency.
9	To design, build astable and monostable multivibrators using 555 IC and verify their operation using measurements by observing waveforms.

10	Design butter-worth band-pass filter for the given higher and lower cut-off frequencies.
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**Subject Name : Signals and Systems**

**Subject code: 3141005**

#### **List of Practical's**

Sr. No.	Name of the practical
1	Introduction to Matlab and Signal Processing Toolbox.
2	Generation of Sine, Cosine Sequences
3	Generation of Impulse, Ramp, Step, Exponential & Rectangular Sequences.
4	Folding of Given sequence
5	Shifting of Given sequence
6	Impulse Response of Given Sequence.
7	Z-transform of given sequence.
8	Inverse Z-transform of given sequence.
9	Linear convolution of given Sequence.
10	Deconvolution of given Sequence.

**Subject Name : Electronics Measurement Laboratory****Subject code :3141010****List of Practical's**

Sr. No.	Name of the practical
1	To study & learn how to operate a Cathode-ray Oscilloscope.
2	Study of Function Generator and its applications.
3	To observe lissajous pattern on CRO.
4	To measure the value of unknown resistance using Wheatstone bridge.
5	Measurement of inductance by Maxwell's bridge.
6	Measurement of capacitance by Schering Bridge.
7	To plot a graph of displacement in mm v/s output (AC mv) using LVDT.
8	To plot the characteristics of Thermister.
9	Experimental study for the characteristics of ADC and DAC
10	Error compensation study using Numerical analysis using MATLAB

**Subject Name : Microprocessor and Microcontroller****Subject code : 3141008****List of Practical's**

Sr. No.	Name of the practical
1	Understand Arduino open source hardware and programming environment and write a program to blink LED using Arduino instructions, C language & Assembly language.
2	Interface Digital/Analog input output interfacing module with Arduino board and write programs related to I/O module
3	Generate PWM waveform and change intensity of LED connected with Arduino board
4	Write and execute an Arduino program for serial communication. Transmit temperature value through serial communication and store it in spreadsheet or text file
5	Write and execute Arduino program to display message and numbers on LCD, GLCD and TFT
6	Write and execute an Arduino program to read analog value. Sense temperature using LM35 sensor and display temperature value on LCD
7	Write assembly language programs for ATMega32 Microcontroller and simulate using ATMEL Studio
8	Understand hardware of ATMega32 Kit. Write program to flash LEDs, Read status of switches, Display count values on seven segment display. Upload programs in the kit one by one and execute.
9	Write a program to read switch status and display it on LCD. Write program in Assembly as well as C language.

10	Write a program to rotate stepper motor in half step and full step mode in Assembly as well as C language. Simulate program using PROTEUS software
11	Write program to rotate DC motor in clockwise and anti-clockwise direction in Assembly as well as C language. Simulate program using PROTEUS software.
12	Observe waveforms of I2C and SPI communication and understand I2C and SPI protocol
13	Write Arduino program to receive IR Signal from IR remote and operate Electrical device based on switch pressed.

Sr. No.	Name of the practical
1.	Introduction to programmable devices (FPGA, CPLD) and Hardware Description Language (VHDL)s
2.	Use of programming tool (Xilinx)
3.	Implementation of basic logic gates and its testing.
4.	Implementation of adder circuits and its testing.
5.	Implementation 4 to 1 multiplexer and its testing.
6.	Implementation of 3 to 8 decoder and its testing.
7.	Implementation of 8 to 3 priority encoder and its testing.

8.	Implementation of J-K and D Flip Flops and its testing.
9.	Implementation of sequential adder and its testing.
10.	Implementation of BCD counter and its testing.
11.	Implementation of 4-bit multiplier circuit and its testing.
12.	Introduction to SPICE code and Back End Design for VLSI.
13.	Simulation of CMOS Inverter using SPICE for transfer characteristic.
14.	Simulation and verification of two input CMOS NOR gate using SPICE.
15.	Implementation and simulation of given logic function.
16.	Introduction to Back End Design and Layout Design Techniques.
17.	To generate layout for CMOS Inverter Gate.
18.	To generate layout for CMOS NAND Gate.
19.	To generate layout for CMOS NOR Gate.

**Subject Name : Advanced Microcontroller****Subject code:3151107****List of Practical's**

Exp. No.	List of Practical
1.	To implement and simulate ARM Assembly language programs for different problems
2.	To interface LED with ARM microprocessor and write program to blink LED at interval of 1 second
3.	To interface Switch with ARM Microprocessor and write program in C language to read status of switch
4.	To interface Seven Segment with ARM Microprocessor and write program to display 0 to 9 at the interval of 1 second
5.	To interface LCD with ARM Microprocessor. Write and execute program in C language for displaying text messages and number on LCD
6.	To interface DC Motor with ARM Microprocessor. Write program to rotate DC Motor in clockwise and anti-clockwise direction with different speeds
7.	To interface Stepper Motor with ARM Microprocessor. Write a program to rotate motor in half step and full step mode
8.	Programming NodeMCU with Arduino IDE or Micropython. Write and execute programs for device control using Android App and NodeMCU
9.	Write a program to control devices using webpages and NodeMCU
10	Write a program to read analog value from sensors (light, temperature, humidity, etc.) using NodeMCU and upload data on cloud

**List of Practical's****Subject Name : Python Programming****Subject code: 3151108**

Sr.No.	List of practical
1.	Write Python Program to understand list and tuple.
2.	Write a program which uses Conditional and Loops statements.
3.	Write a python program to create functions and use functions in programs.
4.	Import module and use it in a python program
5.	Write python program to plot data using pyplot
6.	Write a python program to read existing CSV file, concatenate two column and create new file.
7.	To become familiar with MicroPython and NodeMCU. Configure NodeMCU for MicroPython
8.	Write a program in micropython to send digital data on GPIO pins of NodeMCU and glow LED connected with NodeMCU or any other MicroPython supported boards

9.	Connect Digital/Analog I/O module with NodeMCU and write a program to display temperature in micropython
10.	Connect NodeMCU with wifi access point and transmit data from NodeMCU to cloud. Connect Digital/Analog I/O module with NodeMCU and send temperature and light data on cloud (Thingspeak, Firebase or any other cloud service).

**Subject Name : Robotics and Automation****Subject code: 3151110****List of Practical's**

Sr. No.	Name of the practical
1	Introduction to Robotic controller card like Arduino UNO board.
2	Interfacing drivers for Arduino Controller for Robotic application.
3	Various sensor interfacing with Robotic Controller like Arduino UNO board.
4	To simulate simple robotic system using Matlab/ Msc Adam software.
5	Matlab program for simple and inverse kinematics of simple robot configuration.
6	To simulate joint torque control of manipulator.
7	To study feedback control of robot manipulator.
8	To study adaptive control of robot manipulator.
9	To study different methods of speed control of dc Motor.
10	To study speed control of stepper motor using microcontroller.
11	To study robotic programming language like AL and AML.

**Subject Name : Power Electronics****Subject code: 3151106****List of Practical's**

Sr. No.	Name of the practical
1	To obtain V-I Characteristics of SCR (Silicon Controlled rectifier).
2	To study and plot characteristics of DIAC.
3	To obtain the VI characteristics of TRIAC for both forward and reverse biased conduction.
4	To study resistance and RC triggered circuit of an SCR.
5	To study UJT as an relaxation oscillator and SCR firing circuit using UJT.
6	To study and observe the wave form of single phase half controlled converters with resistance and reactive load.
7	To study and observe the wave form of single phase full controlled converter with resistance and reactive load.
8	To study step up and step down chopper.

**Subject Name : Analog and Digital Communication**

**Subject code: 3151104**

**List of Practical's**

Sr. No.	Name of the practical
1	To study and generate amplitude modulation (AM) waveform and to measure modulation index of AM wave using waveform method.
2	To study and generate frequency modulation (FM) waveform
3	To extract an information signal from the AM wave using a diode detector.
4	To extract information signal from the FM wave using FM detector.
5	To study and obtain frequency response of pre-emphasis and de-emphasis circuit
6	To generate an SSB signal and demodulate it using a product detector.
7	To understand block diagrams of superheterodyne AM and FM receiver.
8	To study the working principle of AGC circuits.
9	To study and perform Pulse Amplitude Modulation (PAM) and its demodulation process.
10	To study and perform Pulse Width Modulation (PWM) and its demodulation process.
11	To study and perform Time Division Multiplexing and its demultiplexing processes.

**SEM-VI**

**Subject Name : Fiber Optic Communication**

**Subject code: 3161005**

**List of Practical's**

Sr. No.	Name of the practical
1	Introduction of fiber optic communication system.
2	To study optical fiber cable and different optical fiber losses.
3	To study about fiber splices, joints and connectors.
4	To study about transmission and reception of analog signals using fiber optic cable.
5	To study about transmission and reception of digital signals using fiber optic cable.
6	To measure the numerical aperture (N.A.) of the fiber optic cable.
7	To study characteristics of LED.

8	To study LASER diode.
9	To study about Photodiodes.
10	To study optical time domain Reflectometer (OTDR).

**Subject Name : Computer Networks**

**Subject code: 3161007**

**List of Practical's**

Sr. No.	Name of the practical
1	To study Internetworking Devices
2	To study IP addressing Schemes
3	Develop a C program to convert the given IP address from Decimal to binary.
4	Develop a C program to convert the given IP address from binary to decimal
5	To study Network Commands.
6	To study RS-232 serial Communication.
7	To develop a C program for Character Transfer using RS-232.
8	To develop a C program for Bit Stuffing.
9	To Study LAN and Prepare a LAN Layout for Computer Center
10	To Study LAN Trainer Kit from BenchMark.
11	To Study MAC-Aloha Protocol on LAN –T

12	To Study MAC-CSMA Protocol on LAN –T
13	To Study MAC-CSMA-CD Protocol on LAN –T
14	To Study Stop and wait Protocol on LAN –T.

**Subject Name : Sensors and Transducers**

**Subject code: 3161008**

**List of Practical's**

Sr. No.	Name of the practical
1	To find the value of unknown resistor using Wheatstone bridge.
2	To find the value of unknown capacitance and inductance using Maxwell's bridge.
3	Design signal conditioning circuit using Op-Amp and temperature sensor.

4	Verify characteristic of RTD and find out sensitivity.
5	Verify characteristic of Thermocouple and design signal conditioning circuit .
6	Verify characteristic of variable resistor transducer (strain gauge).
7	Measurement of distance using LVDT plot ac and dc characteristics.
8	Interface Load Cell with Arduino and display weight.
9	Interface accelerometer with Arduino.
10	Interface gyroscope with Arduino.
11	Interface Tilt Sensor with Arduino .

**Subject Name : Embedded systems**

**Subject code: 3161009**

**List of Practical's**

Sr.No	List of practical
1	Introduction to Programming Environment and MSP430 microcontroller.
2	To write a program to turn LED on and off connected with port-1.
3	To study and write a program to multiply two unsigned 32-bits values and stored result in 64-bits.
4	To study and implement Universal Asynchronous Receiver/Transmitter(UART)protocol to send and receive data on port.
5	To study and implement Serial Peripheral Interface (SPI) protocol to send and receive data on port.
6	To study and implement Inter Integrated Circuit ( I2C) protocol to send and receive data on port.
7	To study and implement Analog to Digital conversion of signal received on port.

8	To study and implement Digital to Analog conversion to generate sine wave signal.
9	To study and test various Power Down modes in MSP430
10	To study and implement Pulse Width Modulation (PWM) to control the servo motor.

**Subject Name : Satellite Communication**

**Subject code: 3161010**

**List of Practical's**

Sr. No.	Name of the practical
1	Understanding concepts of satellite communication.

2	To setup direct link between uplink transmitter and downlink receiver using Tone Signal
3	To Setup an Active satellite communication link and demonstrate link fail Operation.
4	To study the satellite transponder
5	To setup up satellite communication link with the help of video camera.
6	To setup an Audio Video transmission through Satellite link.
7	To transmit & receive the Function Generator waveforms through a satellite communication link.
8	To transmit Tone through satellite link.
9	To determine the audio signal bandwidth of the satellite link

**Subject Name : Antennas and Wave Propagation**

**Subject code: 3161003**

#### **List of Practical's**

Sr. No.	Name of the practical
1	To study different types of antenna.
2	To study the phenomenon of linear, circular and elliptical polarization.
3	To find out the Beam Area of antenna.
4	To find out the Directivity (normal value and dB value) of antenna.
5	Radiation Pattern of an Omni-Directional Antenna.
6	Radiation Pattern of a Directional Antenna
7	Radiation Pattern of Endfire Antenna.
8	Radiation Pattern of Broadside Antenna.
9	Radiation Pattern of Yagi Antenna
10	Radiation Pattern of Monofilar Axial Mode Helix Antenna

**Subject Name : System Engineering**

**Subject code: 3161013**

#### **List of Practical's**

Sr. No.	Name of the practical
1	Study of Project Management Software Platform / Tools.
2	Study of Project Life Cycle Software Platform / Tools.
3	Study of Need Analysis Software Platform / Tools.
4	Study of Requirement Analysis Software Platform / Tools.
5	Study of Model Based Engineering Software Platform / Tools (UML, SysML, MATLAB, Simulink, Labview etc.)
6	Design of cyber-electro-mechanical system.
7	System Design of Unmanned Aerial Vehicle (UAV).
8	System Design of Battery-Operated Electric Vehicle.
9	System Design of Automated Robotic Arm.
10	System Design of Underwater Vehicle.
11	System Design of Nano-Satellite for Local Communication.
12	System Design of Smart Meter for Air Quality Monitoring /Control.
13	System Design of Smart Meter for Water Quality/ Water Management Monitoring/ Control.
14	System Design of Smart Meter for Electricity distribution/ Management Monitoring/ Control.

## SEM-VII

**Subject Name : Wireless Communication**

**Subject code: 2171004**

### List of Practical's

Sr. No.	Name of the practical
1	GSM system Architecture
2	Multiple Access Techniques
3	Handoff using Virtual Laboratory-IIT Kharagpur
4	Frequency Reuse using Virtual Laboratory-IIT Kharagpur

5	QAM in AWGN Channel using MATLAB
6	OFDM Signal
7	SDR
8	Wi-Max
9	Cellular Concept
10	MATLAB Code to calculate the median path loss for Okumura model
11	MATLAB Code to calculate the median path loss for Hata model

**Subject Name : Satellite Communication**

**Subject code: 2171007**

#### **List of Practical's**

Sr. No.	Name of the practical
1	Understanding concepts of satellite communication.
2	To setup direct link between uplink transmitter and downlink receiver using Tone Signal
3	To Setup an Active satellite communication link and demonstrate link fail Operation.
4	To study the satellite transponder
5	To setup up satellite communication link with the help of video camera.
6	To setup an Audio Video transmission through Satellite link.
7	To transmit & receive the Function Generator waveforms through a satellite communication link.
8	To transmit Tone through satellite link.
9	To determine the audio signal bandwidth of the satellite link

**Subject Name : Microwave Engineering**

**Subject code: 2171001**

#### **List of Practical's**

Sr. No.	Name of the practical
1	Introduction to Microwave Bench.
2	Study of field patterns of various modes inside a rectangular cavity.

3	Measurement of the dielectric constant and loss tangent of materials in microwave frequency band using a rectangular waveguide cavity.
4	Concept of Generalized N-port scattering parameters, and formulation of these parameters into 2-port reflection and transmission coefficients.
5	Study the behavior of impedance matching for passive networks using Smith chart
6	Study the behavior of impedance matching for passive networks using Smith chart.
7	Introduction to Smith chart and its application for unknown impedance measurement.
8	Study the behavior of terminated coaxial transmission lines in frequency domain.
9	Study of field patterns of various modes inside a rectangular waveguide.
10	To Study about RADAR.

**Subject Name : Digital Signal Processing**

**Subject code: 2171003**

### **List of Practical's**

Sr. No.	Name of the practical
1	Write a program for Direct form – I, II form realization of the given IIR system function.
2	Write a program to plot pole-zero of a given FIR filter.
3	Create Blackman Harris, Hamming and Gaussian window and plot them in the same filter design tool.
4	Design an FIR filter with side lobe attenuation of 40 dB using Kaiser Window of 200 points.
5	Design low pass butter worth digital filter with given specification using impulse invariance method.
6	Design a high pass elliptical filter with given specification using impulse invariance method.
7	Design a band pass chebychev-2 filter with given specification using impulse in-variance method.
8	Design a second-order digital bandpass Butterworth filter with the following specifications: $f_u = 2.6 \text{ kHz}$ , $f_L = 2.4 \text{ kHz}$ , $f_s = 8000 \text{ Hz}$ . Plot the magnitude and phase response.
9	Write a program to demonstrate the time shifting and frequency shifting property of DTFT.
10	Write a program to perform circular convolution of two sequences using DFT.
11	Write a program to up sample the sinusoidal sequence by an integer factor.
12	Write a program to down sample the sinusoidal sequence by an integer factor.
13	Write a program to convert the sampling by non integer factor of a sinusoidal sequence.

### **List of Practical's**

**Subject Name : Data Communication and Networking****Subject code: 2171008**

Sr. No.	Name of the practical
1	To study Internetworking Devices
2	To study IP addressing Schemes
3	Develop a C program to convert the given IP address from Decimal to binary.
4	Develop a C program to convert the given IP address from binary to decimal
5	To study Network Commands.
6	To study RS-232 serial Communication.
7	To develop a C program for Character Transfer using RS-232.
8	To develop a C program for Bit Stuffing.
9	To Study LAN and Prepare a LAN Layout for Computer Center
10	To Study LAN Trainer Kit from BenchMark.
11	To Study MAC-Aloha Protocol on LAN –T
12	To Study MAC-CSMA Protocol on LAN –T
13	To Study MAC-CSMA-CD Protocol on LAN –T
14	To Study Stop and wait Protocol on LAN –T.

**Subject Name : Embedded Systems****Subject code: 2171005****List of Practical's**

Sr. No.	Name of the practical
1	Introduction to MSP430 Kit and Programming Environment with program to work with ports
2	Configure timer block with capture/compare channel 0 & 1 to generate 4.096 KHz & 1.024 KHz signal.
3	Configure watchdog timer in watchdog & interval mode.
4	Test various Power Down modes in MSP430.
5	Read Temperature of MSP430 with the help of ADC.
6	Use Timer to trigger ADC for reading analog signal in most efficient manner to reduce power consumption.
7	Configure DAC to generate positive ramp signals.
8	Use Comparator to compare the signal threshold level.

9	Implement Hardware Multiplier to multiply two arrays to perform MAC operation
10	Implement DMA controller for basic convolution algorithm.
11	Use I2C protocol for communication between more than two MSP430 connected on I2C bus.
12	Use SPI protocol for communication between two MSP430.

## Sem-VIII

**Subject Name : Fundamentals of image Processing**

**Subject code: 2181102**

### **List of Practical's**

Sr. No.	Name of the practical
1	To write a program to read and display digital image and convert color into greyscale image.
2	To write and execute image processing programs using point processing method.
3	To write and execute program for image arithmetic operation. •Addition of 2 images •Subtract one image from other image •Calculate mean value of image
4	To write and execute program for image logical operation •AND •OR •NOT •X-OR (water marking )
5	To write a program for histogram calculation and equalization.
6	To write and execute program for geometric transformation of image •Translation •Rotation •Zooming •Shrinking
7	Write and execute programs to remove noise using spatial filters
8	To understand various image models and to write programs for image restoration • Remove salt and paper noise • Minimize Gaussian noise • Median filter and Weiner filter
9	To Write and execute programs for image frequency domain filtering • Apply FFT on given image • Perform low pass and high pass filtering in frequency domain • Apply IFFT to reconstruct image
10	To Write and execute a program for image morphological operations erosion and dilation.

**Subject Name : Radar & Navigation Aids**  
**Subject code: 2181103**

### **List of Practical's**

Sr. No.	Name of the practical
1	Write a program in Matlab for computing minimum detectable power for radar
2	Write a program in Matlab for computing radar range including noise
3	Write a program in Matlab for radar cross section
4	Write a program in Matlab for computing Doppler Frequency.
5	Write a program in Matlab for single line delay canceller.
6	Write a program in Matlab for double line delay canceller.
7	Write a program in Matlab for linear antenna field Intensity.
8	Write a program in Matlab for synthetic aperture radar.
9	Tutorial 1
10	Tutorial 2

### **ELECTRICAL ENGINEERING EXPERIMENTAL SETUP**

**Subject: BASIC ELECTRICAL ENGINEERING**

**Subject: 3110005**

Sr. No.	Name of Practical
1	Draw the symbols used in electrical and electronic circuit by drawing instruments.
2	Introduction and use of measuring instruments – voltmeter, ammeter, Clip On Meter, multi-meter, Resistors, Capacitors and Inductors.
3	To verify the Network theorems.
4	Perform Voltage, current and power measurement in single phase AC circuit.
5	Measurement of Open circuit voltage & short circuit current of Series -parallel connected Solar PV Modules.
6	Demonstration of cut-section models of DC Motor, 3-phase AC & 1-phase AC Motor and Transformer.
7	Understanding of Residential Building electricity bills and Calculation of individual light Bill by students.
8	To verify the current and voltage relationships in three phase star and delta connections.
9	Demonstration of domestic installations like MCB, ELCB, Fuse, Earthing Plate etc.
10	Demonstration of various types of wires and cables.
11	Understanding of various safety precautions for electrical installations

SR.NO.	List of EXPERIMENTS
1	FAMILIARIZATION WITH MATLAB CONTROL SYSTEM TOOLBOX, MATLAB/SIMULINK TOOLBOX.
2	DETERMINATION OF STEP & IMPULSE RESPONSE FOR A FIRST ORDER UNITY FEEDBACK SYSTEM
3	DETERMINATION OF STEP & IMPULSE RESPONSE FOR A SECOND ORDER UNITY FEEDBACK SYSTEM
4	DETERMINATION OF STEP & IMPULSE RESPONSE FOR A TYPE '0', TYPE '1', TYPE '2' SYSTEMS
5	DETERMINATION OF BODE PLOT USING MATLAB CONTROL SYSTEM TOOLBOX FOR 2 <sup>ND</sup> ORDER SYSTEM & OBTAIN CONTROLLER SPECIFICATION PARAMETERS.
6	DETERMINATION OF ROOT LOCUS PLOT USING MATLAB CONTROL SYSTEM TOOLBOX FOR 2 <sup>ND</sup> ORDER SYSTEM & OBTAIN CONTROLLER SPECIFICATION PARAMETERS.
7	DETERMINATION OF NYQUIST PLOT USING MATLAB CONTROL SYSTEM TOOLBOX.
8	STUDY THE EFFECT OF PI & PD CONTROLLER ON SYSTEM PERFORMANCE
9	STUDY THE EFFECT OF ADDITION OF ZEROS TO THE FORWARD PATH TRANSFER FUNCTION OF A CLOSED LOOP SYSTEM
10	STUDY THE EFFECT OF ADDITION OF POLES TO THE FORWARD PATH TRANSFER FUNCTION OF A CLOSED LOOP SYSTEM

### **Control System Theory**

#### **List of Experiments of ECA**

## Electromagnetic Field

SR.NO.	EXPERIMENTS
1	VERIFICATION OF SUPERPOSITION THEOREM
2	VERIFICATION OF THEVENIN THEOREM
3	VERIFICATION OF NORTON THEOREM
4	VERIFICATION OF MAXIMUM POWER TRANSFER THEOREM FOR DC CIRCUIT
5	VERIFICATION OF RECIPROCITY THEOREM
6	FREQUENCY RESPONSE OF SERIES AND PARALLEL RESONANCE CIRCUITS
7	VERIFICATION OF 'Z' PARAMETER OF TWO PORT NETWORK
8	VERIFICATION OF 'Y' PARAMETER OF TWO PORT NETWORK
9	VERIFICATION OF 'Z' PARAMETER OF SERIES CONNECTION OF A TWO PORT NETWORK.

## POWER SYSTEM- 1

01	To survey Generation Scenario and power plants of Gujarat
02	To Survey of different type of power plants of India to observe the power and energy supplied by them daily
03	To plot V-I and P-V characteristics of solar cell/panel.
04	To study about String efficiency and methods to improve it.
05	Calculating line inductance for different conductor configurations and dimensions.
06	Calculating line capacitance for different configurations and design of line.
07	Calculating sag of transmission line: 1. Equal level 2. Unequal level.
08	To Prepare layout of substation for a given bus arrangement and given voltage rating with all necessary equipments
09	To study different Methods of neutral grounding.
10	Simulation of three phase system with three phase balanced load with neutral grounded.

11	Write a program for calculating sag of transmission line under different loading conditions.
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### **Electrical Power System – 2**

Sr. No	Tutorial name
1	Tutorial on Per Unit System.
2	Tutorial on Symmetrical Fault Analysis.
3	Tutorial on Symmetrical Components.
4	Tutorial on Unsymmetrical Faults.
5	Tutorial on Short Transmission Line.
6	To Study of Ferranti Effect.
7	Tutorial on Transmission Line Modelling and Performance.
8	To Study about Corona in Transmission Line.
9	To Study About Over Voltage in Power System
10	To Study about Transient in Transmission Line.

### **EMMI LAB : List of experiments**

1. Measurement of resistance using Wheatstone's Bridge and Kelvin Double bridge.
2. Extension of range of wattmeter using CT & PT
3. Measurement of displacement using LVDT
4. Measurement of current/ voltage using Hall effect transducer.
5. Thermocouple based ON – OFF controller
6. Measurement of physical quantities – strain, torque and angle
7. Measurement of temperature by RTD method

8. Measurement of low resistance by Kelvin's double bridge;
9. Measurement of voltage, current and resistance using dc potenti
10. Measurement of inductance by Maxwell's bridge, Hay's bridge, Anderson's bridge;
11. Measurement of capacitance by Owen's bridge, De Sauty bridge, Schering bridge;
12. Measurement of flow rate by anemometer

### **Interconnected Power System**

1.	To study the basic concept of interconnected power system.
2.	To Study about Power system Stability.
3.	Tutorial - 1: Power System Stability.
4.	To Study the Equal Area Criterion of stability.
5.	Tutorial – 2: Equal Area Criterion of stability.
6.	To study Control of Voltage & Reactive Power.
7.	Tutorial - 3: Control of Voltage & Reactive Power.
8.	Tutorial - 4: Step by Step Method.
9.	Tutorial – 5: Economic operation of power system.
10.	To Study the Load Flow Analysis Techniques
11.	Tutorial – 6: Load Flow Analysis (2 examples for each method)
12.	Tutorial – 7: Power system matrices
13.	Tutorial - 8: Frequency control

### **INDUSTRIAL INSTRUMENTATION**

SR. NO.	TITLE
1.	To obtain the response of various temperature sensors such as RTD, Thermistor, Thermocouple.

## **POWER ELECTRONICS**

PR. NO.	PRACTICAL NAME
1	To Study the transfer and output characteristic of MOSFET.
2	To Study the V-I characteristic of SCR.
3	Study of UJT triggering circuit, Resistance triggering , RC triggering circuit circuit of an SCR.
4	Study of single phase half-wave and full wave controlled rectifier with R, R-L load.
5	Study and demonstrate Chopper circuit.
6	To demonstrate Single Phase AC Voltage Controller.
7	To operate Three Phase AC Voltage Controller.
8	To demonstrate single phase inverter.
9	Study of 120 degree mode 3- $\frac{1}{2}$ inverter with Y-connected R- load.
10	Study of 180 degree mode 3- $\frac{1}{2}$ inverter with Y-connected R- load.
11	To study the performance of DC-DC Buck/ Boost converter
12	To study the performance of Buck-Boost converter.

# **ANALOG AND DIGITAL ELECTRONICS**

<b>PR. NO.</b>	<b>PRACTICAL NAME</b>
1	To demonstrate Inverting Amplifier Circuit using Op- Amp.
2	To demonstrate Integrator Amplifier Circuit using Op- Amp
3	To demonstrate Differentiate Amplifier Circuit using Op- Amp.
4	To demonstrate Summing Amplifier Circuit using Op-Amp.
5	To demonstrate Differential Amplifier Circuit using Op- Amp.
6	To construct and demonstrate square wave generator using op-amp.
7	To construct and demonstrate Triangular wave generator using LM741/OP27.
8	To construct and demonstrate Sine wave generator using LM741/OP27.
9	To verify logic GATES truth table.
10	To verify characteristic tables of JK flip-flop.
11	To verify output for half adder and Full adder.
12	Verification of counter circuit like binary up/down counter,
13	Verification of Specification and Performance indices of D/A and A/D converters

### **Electrical Machine –I**

01.	Constructional study of DC Machine Parts.
02.	To obtain the magnetization characteristic of a separately excited D.C Generator.
03.	To Perform Load Test on D.C Shunt Generator & Obtain Internal and External characteristic.
04.	To obtain External and Internal characteristics of a D.C series generator.
05.	To obtain External and Internal characteristics of a D.C Compound generator.
06.	To Study construction and principle of the D.C motor starter
07.	To perform the speed control of D.C shunt Motor by <ul style="list-style-type: none"> <li>▪ Field Control Method</li> <li>▪ Armature Control Method</li> </ul>
08.	To Study construction and working principle of a Single Phase Transformer.
09.	To Perform Polarity Test on Single Phase Transformer & Determine polarities on the winding terminals.
10.	To perform the Load test on Single Phase transformer and find efficiency and regulation.

## **Microprocessors and Microcontrollers**

<b>PR. NO.</b>	<b>PRACTICAL NAME</b>
1	To study Introduction to IDE, assembler, compiler, linker, simulator, debugger and assembler directives.
2	To perform 8051 Assembly language programming based on data transfer, arithmetic and logical group instructions.
3	To perform 8051 Assembly language programming using bit manipulation instructions.
4	To study 8051 Assembly language programming using branching group instructions
5	To perform 8051 Timer/counter programming using assembly language and C
6	To perform 8051 Serial programming using assembly and embedded C.
7	To perform I/O port programming in embedded C.
8	To perform Programming of LCD in assembly & embedded C.
9	To perform Programming of matrix keyboard in assembly & embedded C.
10	To perform Programming of parallel ADC and DAC in embedded C.
11	To perform Speed Control of DC motor using PWM Technique and Microcontroller
12	of SCR firing Circuit for D. C. Converter using Microcontroller
13	Interfacing Relay and opto isolators using Microcontroller

### **Subject : PSPD ( 2180903 ) Sem VIII**

#### **List of Experiments**

1	Electrical design of transmission line.
2	Visit of substation and draw its lay out plan.
3	Design of transmission line towers.
4	Survey and design of rural electrification and draw Single Line Diagram.
5	Survey of industrial distribution system and draw Single Line Diagram SLD.

### **Subject : DACM ( 2170909 ) Sem VII Electrical**

#### **List of Experiments**

1	Design of three phase squirrel cage induction motor
2	Design of three phase slip ring induction motor
3	Design of single phase induction motor
4	Design of submersible motor
5	Design of turbo alternator

6	Design of salient pole low speed alternator
7	Practice problems on open source software (FEMM)
8	Performance parameters evaluation using FEM software

**Subject : DCMTR ( 2160912 ) Sem VI Electrical  
List of Experiments**

1	Design the DC machine of given specifications.
2	Design the transformer of given specifications.
3	Prepare the detailed sketch of the designed DC machine
4	Prepare the detailed sketch of the designed Transformer.

**Subject : S.G.P. ( 2170908 ) Sem VII Electrical**

**List of Experiments**

1	To study Micro controller based 3-Phase Differential Relay.
2	To study Micro controller based over current Relay
3	To study the Numerical Protection of induction motor
4	To obtain the operating characteristics of an IDMT relay.
5	To study the operating characteristics of directional over current relay.
6	To study the operating characteristics of the transformer percentage differential relay.
7	To study the magnetic inrush current in a transformer and its protection.
8	To study radial feeder protection using two overcurrent and one Earth fault relay.
9	TO obtain and study the magnetization characteristic of CT.
10	To study transformer differential protection.
11	To study the protection schemes for different abnormal conditions in an alternator.
12	To study Buchholz relay for transformer protection.
13	To study Generalized block diagram of Numerical Relay

**List of Experimental Setup**  
**Branch:- Mechanical**  
**Engineering SEM-1 & 2**  
**Engineering Graphics & Design: 3110013**  
**List of practicals**

Sr. No.	Name of the practical
1	Practice Sheet (dimensioning methods, different types of lines, construction of different polygon, divide the line and angle)
2	Plane scale and diagonal scale
3	Loci of points
4	Engineering curves
5	Projection of line
6	Projection of plane
7	Projection of solid, section of solid
8	Development of surfaces
9	Orthographic projection
10	Isometric projection
11	AutoCAD drawing of orthographic projection

**Subject Name 2: Basic Mechanical Engineering Subject Code:- 3110006**

**SEM-1 & 2**

**List of practicals**

Sr. No.	Name of the practical
1	To study about various types of boilers
2	To study about various types of Mounting and Accessories of Boilers.
3	To study about Internal Combustion engines.
4	To understand construction and working of different types of compressor
5	To demonstrate vapor compression refrigeration cycle of domestic refrigerator and window air conditioner
6	To understand construction, working and application of clutches, coupling and brakes
7	To understand different arrangement and application of various power transmission drives

**SEM-3**

**Engineering Thermodynamics: 3131905**

**List of practical**

Sr. No.	Name of the practical
1	Understand Applications of SFEE
2	Verify first and second law with mechanical heat pump
3	Verify first and second law with I.C. Engine
4	Determine heat loss from pipe-in-pipe heat exchanger using SFEE and to verify entropy principle for the heat exchanger
5	Compare Otto, diesel and dual cycles
6	Study variables affecting the performance of rankine cycle
7	Understand different components of VCR system and to determine its COP
8	Understand the effect of various operating parameters on performance of VCR cycle
9	Evaluate the calorific value of given fuel with the help of oxygen bomb calorimeter
10	Evaluate the calorific value of given fuel with the help of Junker gas calorimeter
11	Understand applications of entropy principle and Gouy - Stodola theorem

**SEM-3**  
**KINEMATICS AND THEORY OF MACHINES:3131906**  
**List of Practical's**

Sr. No.	Name of the practical
1	Drawing work related to inversion of four bar mechanism and slider and crank mechanism
2	.Drawing work related to velocity and acceleration diagram of various mechanisms.
3	Drawing work related to cam profile.
4	Drawing work and computation related to synthesis.
5	Computerised Synthesis.
6	Analysis related to belt, rope, and chain drive
7	Analysis related to brakes, and clutches.
8	Analysis related to gears and gear train

**SEM-3**  
**Fluid Mechanics and Fluid Machines (3141906)**  
**List of Practical's**

Sr. No.	Name of the practical
1	Performance verification of Bernoulli's Theorem
2	To Find Metacentric height by experimental method.
3	Flow measurement by Venturi meter, Orifice meter and Rotameter.
4	To study about Open Channel flow over a Notch.
5	To study and performance on Reynold's apparatus.
6	To study the application of momentum theorem for impact of Jet on Vane apparatus and determine the vane efficiency.
7	To draw the operating characteristics curves of Pelton Wheel Turbine.
8	To draw the operating characteristics curves of Kaplan Turbine.
9	To conduct a test on a Single Stage Centrifugal Pump at various speed to obtain the pump characteristics.
10	To Study about Hydraulic Machines

**SEM-4**  
**Manufacturing Processes: 3141908**  
**List of Practical**

Sr. No.	Name of the practical
1	Study about Lathe Machine and operations performed on it.
2	Study about Shaper Machine and operations performed on it.
3	Study about Planer machine and operations performed on it.
4	Study about Milling Machine and operations performed on it.
5	Study about Drilling Machine and operations performed on it.
6	Study about Broaching Machine and operations performed on it.
7	Study about Slotting Machine and operations performed on it.

8	Study about Grinding Machine and operations performed on it.
9	Study about Sawing Machine and operations performed on it.
10	Assignment of Lathe Machine, Shaper, Planer, Milling Machine & Drilling Machine

**SEM-4**  
**FUNDAMENTAL OF MACHINE DESIGN:3141907**  
**List of Practical's**

Sr. No.	Name of the practical
1	Detail and assembly of mechanism/machine.
2	Problems related to fundamentals of design (chapter no. 1 to 4)
3	Design and drawing of Joints and levers.
4	Design and drawing of screw jacks (Bottle neck and Toggle).
5	Design of machine components under fluctuates loading.
6	Case study for design of mechanical components.
7	2D drawing of machine components using computer software.

**Subject Name: Mechanical Measurement & Metrology**

**Subject Code: 3141901**

**List of Practicals**

Sr.No	Name of the Practicals
1	To study about measurements and metrology.
2	Performance on linear measurements using Vernier Calliper, Vernier height gauge, and Micrometer.
3	Performance on Angular Measurement using Bevel protector and Sine bar.
4	To study about Temperature Measurement.
5	To Study about Gear and Screw Thread Measurement. (Two wire method, screw pitch gauge).
6	To study about Stress, Strain and Force Measurements.
7	To Study about Torque and Speed and acceleration Measurement.
8	Performance on Surface Measurements.

**SEM- 5**  
**Subject Name: Dynamics of Machinery**

**Subject Code: 3151911**  
**List of Practicals**

<b>Sr. No.</b>	<b>Name of the Practicals</b>
1	Study and trial on the gyroscope, to determine the gyroscopic couple.
2	To study the Static & Dynamic Balancing system.
3	To study the longitudinal vibration of helical spring and to determine the frequency and time period of oscillation, theoretically and actually by experiment.
4	To study the Torsional Vibrations of single rotor system.
5	Study the Free Vibration of Two Rotor System and to determine the Natural Frequency of Vibration Theoretically & Experimentally.
6	To study the Damped Torsional Oscillation & to determine the damping co-efficient $\xi$ .
7	To study the Forced damped Vibration of Equivalent Spring Mass System and to find the frequency of forced damped equivalent spring mass system and amplitude of vibration.
8	To study the effect of whirling of shaft.
9	Study and Design of Flywheel for IC engine and Punch press.
10	Dynamic Force Analysis of Machines.

**SEM-5**  
**Heat transfer 2151909**

**List of practicals**

Sr. No.	Name of the practical
1	To determine the thermal conductivity of given metal rod
2	To determine the thermal conductivity of the given composite walls.
3	To determine Stephan Boltzmann constant experimentally
4	Experiment on pin-fin apparatus by natural convection.
5	To determine emissivity of a test plate
6	To measure convective heat transfer co-efficient and effectiveness of the fin under natural convection.
7	To determine heat transfer co-efficient by forced convection.

8	To determine the overall heat transfer co-efficient of shell and tube type parallel flow heat exchangers.
9	To determine the overall heat transfer co-efficient of shell and tube type counter flow heat exchangers.
10	To determine critical radius of insulation.

**SEM-6**  
**Automobile**  
**engineering3161917 List of**  
**practicals**

Sr. No.	Name of the practical
1	To study constructional features of vehicle body, various layouts, vehicle classifications and specifications.
2	Load analysis of two to three different classes of four wheelers
3	<b>To study and prepare report on the constructional details, working principles and operation of the following Automobile clutches:</b>
4	<b>To study and prepare report on the constructional details, working principles and operation of the following Automotive Transmission Systems:</b> a) Sliding Mesh b) Constant Mesh c) Synchromesh – four speed range
5	<b>To study and prepare report on the constructional details, working principles and operation of the following automotive tyres and wheels.</b> a) Various types of Bias & Radial Plies Tyres b) Various types of Wheels
6	<b>To study and prepare report on the constructional details, working principles and operation of the following Automotive Steering Systems:</b> a) Manual Steering systems e.g. Pitman Arm Steering, Rack & Pinion Steering b) Power Steering Systems e.g. Rack and Pinion Power Steering System
7	<b>To study and prepare report on the constructional details, working principles and operation of Automotive Brake Systems.</b> a) Hydraulic and Pneumatic Brake Systems b) Drum Brake System c) Disc Brake System
8	<b>To study and prepare report on the construction details, working principles and operation of the following automotive suspension systems.</b> a) Front suspension system b) Rear suspension system
9	<b>To study and prepare report on the construction details, working principles and operation of the following automotive drive lines and differential.</b> a) Rear wheel drive lines b) Front wheel drive lines c) Differentials, drive axles and four wheel drive lines

**SEM-6**  
**Computer Aided Design (CAD) : 2161903**  
**List of practicals**

Sr. No.	Name of the practical
1	Introduction fundamentals of Computer Aided Design (CAD)
2	COMPUTER AIDED DESIGNING OF TWO-DIMENSIONAL ELEMENTS USING C-Graphics PROGRAMMING
3	PROGRAMMING ON SCAN CONVERSION OF LINE AND CIRCLE USING DDA AND BRESENHAM ALGORITHM
4	INTRODUCTION TO CAD SOFTWARE AND TRANSFORMATIONS
5	INTRODUCTION TO FINITE ELEMENT ANALYSIS (FEA)
6	PERFORM VARIOUS FEA 1D, TRUSS AND BEAM ANALYSIS IN ANSYS APDL
7	PREPARE DETAIL DRAWING OF GIVEN COMPONENT USING CAD SOFTWARE

**SEM-6**  
**Subject Name: Applied Thermodynamics Subject code:3161910**  
**List of practicals**

Sr. No.	Name of the practical
1	To understand different components of VCR system and to determine its COP.
2	The performance of ice plant tutor.
3	To carry out the performance on Heat Pump trainer.
4	The performance characteristics of Electrolux refrigerator.
5	To carry out the performance on Air conditioning test rig.
6	Performance On Two Stroke, Single Cylinder Petrol Engine
7	Performance Test on Four stroke, single cylinder Diesel Engine
8	Determination of friction power of multi cylinder petrol engine using Morse Test Method
9	To calculate the volumetric efficiency and isothermal efficiency of the two stage compressor.
10	To study about Axial Flow Compressor

**SEM-7**  
**Oil Hydraulics and Pneumatics (OHP) : 2171912**  
**List of practical**

<b>Sr. No.</b>	<b>Name of the practical</b>
1	To study about hydraulic and pneumatic system.
2	To study Extend-Retract and Stop system of a linear actuator in hydraulic system.
3	To study of Regenerative circuit in hydraulic system.
4	To study of flow Control & Sequencing circuit in hydraulic system.
5	To study of Rapid Traverse and Feed circuit in hydraulic system.
6	To Study of Compressor, FRL unit in pneumatic system.
7	To study linear actuators in pneumatic system.
8	To study of in automatic to & fro motion of a pneumatic linear actuator pneumatic system.
9	To study of different kinds of basic circuits in pneumatic system.
10	To study of logical circuits using shuttle valve pneumatic system.

**SEM-7**  
**Computer Aided Design (CAD) : 2161903**  
**List of practicals**

<b>Sr. No.</b>	<b>Name of the practical</b>
1	Overview about the Laboratory any experiments
2	Study of Computer Integrated System: Basics, Types of Manufacturing, role of management and CIM wheel
3	NC/CNC technology: Definition, Classification, Specification, Construction details, Sensors and Actuators, and different controllers.
4	CNC part Programming: Lathe and Milling jobs
5	Exercise on PLC for Simple problems.
6	Problems on GT and Industrial case problems on coding
7	Problems on CAPP and Industrial case problems
8	Study of Flexible Manufacturing system
9	Study of Robotics Technology
10	Problems on MRP-I, MRP-II
11	Study of Expert System in Manufacturing and MIS

- **Computing facilities**

PCs/Laptop exclusively Available to Students	536
PCs/Laptop available in Library	30
PCs/Laptop available in Administrative Office	5
PCs/Laptop available to Faculty Members	23
Number of PCs/Laptop in Language Lab	25
Internet Bandwidth in Mbps	100
Number of Legal Application Software	22
Printers available to Student	93
Number of A1 Size Color Printers	0
Number of Legal System Software	4
Number of Open Source Software	20
Number of Proprietary	4
<b>Special Purpose Facilities Available( Conduct of online meeting / Webinars/ Workshops</b>	Yes
<b>Facilities for Conduct of Classes/Courses in OnlineMode(Theory/Practical)</b>	Available
<b>Innovation Cell</b>	Yes
<b>Social Media Cell</b>	Yes

- **List of facilities available:**

Games and Sports Facilities:	Cricket, Volley ball, Carrom, Chess, Badminton
Extra Curriculum Activities:	Debate, Quiz, Garba, Cultural activities, Talent Evening, Paper & Model Presentation
Soft Skill Development Facilities	

### **Teaching Learning Process:**

- **Syllabus:**

#### **Civil/Applied Department Syllabus Semester 1 and 2**

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB	To tal	E	M	I	V	Total

BE01R0 0011	6	2025-26	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	0	0	0	0	0	0	
BE01R0 0021	6	2025-26	Physics	Basic Science Courses	1	45	0	30	45	4	70	30	50	50	200
BE01R0 0031	6	2025-26	Chemistry	Basic Science Courses	1	45	0	30	45	4	70	30	50	50	200
BE01R0 0041	6	2025-26	Mathematics-I	Basic Science Courses	1	30	30	0	60	4	70	30	30	0	130
BE01R0 0051	6	2025-26	Basic Electrical Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50	200
BE01R0 0061	6	2025-26	Engineering Graphics & Design	Engineering Science Courses	1	15	0	30	15	2	70	30	50	50	200
BE01R0 0071	6	2025-26	Design Thinking	Engineering Science Courses	1	0	0	60	0	2	0	0	20	80	100
BE01R0 0091	6	2025-26	Mechanics of Solids	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50	200
BE01R0 0101	6	2025-26	Basic Civil Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50	200
BE01R0 0121	6	2025-26	Programming for Problem Solving	Engineering Science Courses	1	30	0	60	30	4	70	30	50	50	200
BE01R0 0131	6	2025-26	Workshop and Manufacturing Practices	Engineering Science Courses	1	0	0	30	0	1	0	0	20	80	100
BE01R0 0141	6	2025-26	Universal Human Values	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0	130
BE01R0 0151	6	2025-26	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0	130
BE01R0 0161	6	2025-26	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0	130
BE0200 0011	6	2024-25	Mathematics – 2	Basic Science Courses	2	3	1	0	NA	4	70	30	0	0	100

<a href="#"><u>BE0200 0021</u></a>	6	2024-25	English for Technical Communication	Humanities and Social Science, including Management Courses	2	2	0	2	NA	3	70	30	20	30	150
<a href="#"><u>BE0200 0031</u></a>	6	2024-25	Intellectual Property Rights	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0	100
<a href="#"><u>BE0200 0041</u></a>	6	2024-25	Fundamental of AI	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0	100
<a href="#"><u>BE0200 0061</u></a>	6	2024-25	Industrial Safety and Standards	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0	100
<a href="#"><u>BE02R0 0011</u></a>	6	2025-26	Mathematics – 2	Basic Science Courses	2	45	1 5	0	60	4	70	30	30	0	130
<a href="#"><u>BE02R0 0021</u></a>	6	2025-26	English for Technical Communication	Humanities and Social Science, including Management Courses	2	30	0	3 0	30	3	70	30	50	50	200
<a href="#"><u>BE02R0 0031</u></a>	6	2025-26	Intellectual Property Rights	Multidisciplinary Open Professional Electives Courses	2	30	0	0	30	2	70	30	30	0	130
<a href="#"><u>BE02R0 0041</u></a>	6	2025-26	Fundamental of AI	Multidisciplinary Open Professional Electives Courses	2	30	0	0	30	2	70	30	30	0	130
<a href="#"><u>BE02R0 0061</u></a>	6	2025-26	Industrial Safety and Standards	Multidisciplinary Open Professional Electives Courses	2	30	0	0	30	2	70	30	30	0	130
<a href="#"><u>BE02R0 0071</u></a>	6	2025-26	Standardization and Quality Ecosystem	Multidisciplinary Open Professional Electives Courses	2	30	0	0	30	2	70	30	30	0	130

### Semester 3

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	L.	T.	P.	PBL	To tal	E	M	I	V	Total
<a href="#"><u>BE0300 0051</u></a>	6	2025-26	Professional Communication and Ethics	Humanities and Social Science,	3	30	0	3 0	0	2	70	30	20	50	170

				including Management Courses (Elective)											
<a href="#"><u>BE0300 0061</u></a>	6	2025-26	Indian Constitution	Core Courses	3	30	0	0	30	2	50	0	30	0	80
<a href="#"><u>BE0300 0241</u></a>	6	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	50	170
<a href="#"><u>BE0300 0251</u></a>	6	2025-26	Probability and Statistics	Basic Science Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE0300 6011</u></a>	6	2025-26	Theory of Structure	Professional Core Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE0300 6021</u></a>	6	2025-26	Concrete Technology	Professional Core Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE0300 6031</u></a>	6	2025-26	Building Construction and Technology	Professional Core Courses	3	45	0	30	45	4	70	30	50	50	200

#### Semester 4

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB L	Total	E	M	I	V	Total
<a href="#"><u>BE0400 0101</u></a>	6	2025-26	Environmental Science, Sustainability and Renewable Energy	Core Courses	4	30	30	0	0	2	70	30	20	0	120
<a href="#"><u>BE0400 6011</u></a>	6	2025-26	Surveying	Professional Core Courses	4	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE0400 6021</u></a>	6	2025-26	Geotechnical Engineering	Professional Core Courses	4	45	0	30	45	4	70	30	50	50	200

<a href="#"><u>BE0400 6031</u></a>	6	2025-26	Building and Town Planning	Professional Core Courses	4	45	0	60	15	4	70	30	50	50	200
<a href="#"><u>BE0400 6041</u></a>	6	2025-26	Basic Structural Analysis	Professional Core Courses	4	45	0	30	15	3	70	30	50	50	200
<a href="#"><u>BE0400 6051</u></a>	6	2025-26	Fluid Mechanics	Basic Science Courses	4	45	0	30	15	3	70	30	50	50	200

### Semester 5

Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	L.	T.	P.	Total	E	M	I	V	Total	
BE050 06011	6	2026-27	Soil Mechanics	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150
BE050 06021	6	2026-27	Advanced Concrete Technology	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150
BE050 06031	6	2026-27	Pavement Design and Construction	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE050 06041	6	2026-27	Air & Noise Pollution	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE050 06051	6	2026-27	Advanced Construction Technology	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE050 06061	6	2026-27	Application of Remote Sensing and GIS in Engineering	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0	100
BE050 06071	6	2026-27	Python Programming	Multidisciplinary Open Professional	5	3	0	0	NA	3	70	30	0	0	100

				Electives Courses														
BE050 06081	6	2026-2 7	Instrumentation and Sensor	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	7 0	3 0	0	0	0	100		

### Semester 6

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB L	Total	E	M	I	V	Total
BE0600 6011	6	2026-27	Earthquake Engineering	Professional Elective - III	6	3	0	2	NA	4	7 0	30	20	30	150
BE0600 6021	6	2026-27	Retrofitting of Structure	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 6031	6	2026-27	Foundation Engineering	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 6041	6	2026-27	Traffic Engineering and Management	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 6051	6	2026-27	Industrial Wastewater Treatment	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 6061	6	2026-27	Urban Transportation Planning	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 6071	6	2026-27	Fundamentals of Semiconductor Package Manufacturing & Test	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0	150
BE0600 6081	6	2026-27	Disaster Management	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0	150
BE0600	6	2026-27	Building Information	Multidisciplinary Open	6	3	0	0	NA	3	70	3	0	0	150

6091			Modelling	Professional Electives Courses							0				
BE0600 6051	6	2026-27	Industrial Wastewater Treatment	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	100
BE0600 6061	6	2026-27	Urban Transportation Planning	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	100
BE0600 6071	6	2026-27	Fundamentals of Semiconductor Package Manufacturing & Test	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0	100

### Semester 7

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB L	Total	E	M	I	V	Total
BE0700 6011	6	2027-28	Advanced Design of RC Structure	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6021	6	2027-28	Design of Industrial Structures	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6031	6	2027-28	Design of Prestressed Concrete Structure	Professional Elective - V	7	3	0	2	NA	4	70	3	2	30	150
BE0700 6041	6	2027-28	Airport and Seaport Infrastructure Engineering	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6051	6	2027-28	Railway Infrastructure Engineering	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6061	6	2027-28	Environmental Impact Assessment	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6071	6	2027-28	Design of Hydraulic Structures	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150
BE0700 6081	6	2027-28	Infrastructure for Smart Cities	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100

BE0700 6091	6	2027-28	Climate Change and Carbon Credit	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100
BE0700 6101	6	2027-28	ICT for Development	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100
BE0700 6111	6	2027-28	Composite Materials	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100

### Semester 8

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	Total	E	M	I	V	Total
<a href="#">2180601</a>	06	Dec 2017	Design of Hydraulic Structures	Departmental Elective III	8	3	1	0	4	70	30	20	30	150
<a href="#">2180602</a>	06	Dec 2017	Harbour & Airport Engineering	Departmental Elective III	8	3	1	0	4	70	30	20	30	150
2180605	06	Dec 2017	Project -II		8	0	0	8	8	0	0	20	80	100
<a href="#">2180607</a>	06	Dec 2017	Repairs & Rehabilitation of Concrete Structures	Departmental Elective III	8	3	1	0	4	70	30	20	30	150
<a href="#">2180609</a>	06	Dec 2017	Foundation Engineering		8	3	0	2	5	70	30	20	30	150
<a href="#">2180610</a>	06	Dec 2017	Design of Steel Structures		8	3	2	0	5	70	30	20	30	150
<a href="#">2180611</a>	06	Dec 2017	Construction Management		8	3	2	0	5	70	30	20	30	150
<a href="#">2180612</a>	06	Dec 2017	Design Of Prestressed Concrete Structures & Bridges	Departmental Elective III	8	3	1	0	4	70	30	20	30	150
<a href="#">2180613</a>	06	Dec 2017	Glass Facade Engineering	Departmental Elective III	8	3	0	1	4	70	30	20	30	150

### Electrical Department Syllabus Semester 1 and 2

<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PB L</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
9	2025-26	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	0	0	0	0	0	0	0
9	2025-26	Physics	Basic Science Courses	1	45	0	30	45	4	70	30	50	50	200
9	2025-26	Chemistry	Basic Science Courses	1	45	0	30	45	4	70	30	50	50	200
9	2025-26	Mathematics-I	Basic Science Courses	1	30	3	0	60	4	70	30	30	0	130
9	2025-26	Basic Electrical Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50	200
9	2025-26	Engineering Graphics & Design	Engineering Science Courses	1	15	0	30	15	2	70	3	50	50	200
9	2025-26	Design Thinking	Engineering Science Courses	1	0	0	60	0	2	0	0	20	80	100
9	2025-26	Basic Mechanical Engineering	Engineering Science Courses	1	45	0	30	45	4	70	3	50	50	200
9	2025-26	Basic Electronics Engineering	Engineering Science Courses	1	45	0	30	45	4	70	3	50	50	200
9	2025-26	Programming for Problem Solving	Engineering Science Courses	1	30	0	60	30	4	70	3	50	50	200
9	2025-26	Universal Human Values	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	3	30	0	130
9	2025-26	Contributor Personality Development Program	Humanities and Social Science, including Management	1	30	0	0	30	2	70	3	30	0	130

			Courses												
9	2025-26	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0	130	
9	2025-26	Digital Fabrication Workshop	Engineering Science Courses	1	0	0	30	0	1	0	0	20	80	100	

### Semester 3

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<a href="#"><u>BE03000_051</u></a>	9	2025-26	Professional Communication and Ethics	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	50	170
<a href="#"><u>BE03000_061</u></a>	9	2025-26	Indian Constitution	Core Courses	3	30	0	0	30	2	50	0	30	0	80
<a href="#"><u>BE03000_191</u></a>	9	2025-26	Numerical Methods for Electrical Engineering	Basic Science Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE03000_241</u></a>	9	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	50	170
<a href="#"><u>BE03009_011</u></a>	9	2025-26	Analog and Digital Electronics	Professional Core Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE03009_021</u></a>	9	2025-26	Electrical Machines I	Professional Core Courses	3	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE03009_031</u></a>	9	2025-26	Electrical Circuit Analysis	Professional Core Courses	3	45	15	30	30	4	70	30	50	50	200

### Semester 4

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	L.	T.	P.	PB L	<u>Total</u>	E	M	I	V	<u>Total</u>
<a href="#"><u>BE04000 101</u></a>	9	2025-26	Environmental Science, Sustainability and Renewable Energy	Core Courses	4	30	30	0	0	2	70	30	20	0	120
<a href="#"><u>BE04009 011</u></a>	9	2025-26	Electrical Machines-II	Professional Core Courses	4	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE04009 021</u></a>	9	2025-26	Engineering Electromagnetic s	Professional Core Courses	4	45	0	30	15	3	70	30	50	50	200
<a href="#"><u>BE04009 031</u></a>	9	2025-26	Power Electronic s	Professional Core Courses	4	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE04009 041</u></a>	9	2025-26	Power Systems 1	Professional Core Courses	4	45	0	30	45	4	70	30	50	50	200
<a href="#"><u>BE04009 051</u></a>	9	2025-26	Signals and Systems	Basic Science Courses	4	45	0	30	15	3	70	30	50	50	200

### Semester 5

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	L.	T.	P.	<u>Total</u>	E	M	I	V	<u>Total</u>	
BE0500 9011	9	2026-27	Elements of Electrical Design	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150
BE0500 9021	9	2026-27	High Voltage Engineering	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150
BE0500 9031	9	2026-27	Renewable Energy Technology	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE0500 9031	9	2026-27	Renewable Energy Technology	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE0500 9041	9	2026-27	Distributed Generation & Microgrid	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE0500 9051	9	2026-27	Electrical Engineering Materials	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0	100

BE0500 9061	9	2026-27	Energy Audit and Management	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0	100
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### Semester 6

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB L	Total	E	M	I	V	Total
BE0600 9011	9	2026-27	Smart Grid	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 9021	9	2026-27	Electrical Machine Design	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 9031	9	2026-27	HVDC Transmission	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 9041	9	2026-27	Softwares for Electrical Engineering	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 9051	9	2026-27	Electrical Power Utilization	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0	100
BE0600 9061	9	2026-27	IOT for Electrical Engineering	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0	100

### Semester 7

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PB L	Total	E	M	I	V	Total
BE07000 141	9	2027-28	Sustainable Power Generation Systems	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100
BE07009 011	9	2027-28	Condition Monitoring and Diagnostics	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30	150
BE07009 021	9	2027-28	Industrial Process Control and Automation	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30	150
BE07009 031	9	2027-28	Advanced Electrical Machines	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150

BE07009 041	9	2027-28	Hybrid & Electric Vehicle	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30	150
BE07009 051	9	2027-28	Electrical Safety	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0	100

### Semester 8

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	L	T	P.	Total	E	M	I	V	Total
<a href="#"><u>2180901</u></a>	09	Dec 2017	Testing and Commissioning of Electrical Equipments		8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180903</u></a>	09	Dec 2017	Power System Planning and Design		8	3	0	2	5	70	30	20	30	150
2180905	09	Dec 2017	Project		8	0	0	10	10	0	0	20	80	100
<a href="#"><u>2180909</u></a>	09	Dec 2017	Power System Operation and Control		8	4	0	0	4	70	30	0	0	100
<a href="#"><u>2180910</u></a>	09	Dec 2017	Energy Conservation and Audit	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180911</u></a>	09	Dec 2017	Power Quality and Management	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180912</u></a>	09	Dec 2017	Condition Monitoring	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180913</u></a>	09	Dec 2017	Advanced Control Systems	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180913</u></a>	09	Dec 2016	Advanced Control Systems	Departmental Elective III	8	3	0	2	5	70	30	20	30	150

**Mechanical Department Syllabus**  
**Semester 1 and 2**

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
BE01000 011	19	2024-25	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	0	0	0	0	0	0
BE01000 021	19	2024-25	Physics	Basic Science Courses	1	3	0	2	4	70	30	0	0	150
BE01000 031	19	2024-25	Chemistry	Basic Science Courses	1	3	0	2	4	70	30	0	0	150
BE01000 041	19	2024-25	Mathematics-I	Basic Science Courses	1	3	1	0	4	70	30	0	0	100
BE01000 051	19	2024-25	Basic Electrical Engineering	Engineering Science Courses	1	3	0	2	4	70	30	0	0	150
BE01000 061	19	2024-25	Engineering Graphics & Design	Engineering Science Courses	1	1	0	2	2	70	30	0	0	150
BE01000 071	19	2024-25	Design Thinking	Engineering Science Courses	1	0	0	4	2	0	0	0	0	100
BE01000 081	19	2024-25	Basic Mechanical Engineering	Engineering Science Courses	1	3	0	2	4	70	30	0	0	150
BE01000 111	19	2024-25	Basic Electronics Engineering	Engineering Science Courses	1	3	0	2	4	70	30	0	0	150
BE01000 121	19	2024-25	Programming for Problem Solving	Engineering Science Courses	1	2	0	4	4	70	30	0	0	150
BE01000 131	19	2024-25	Workshop and Manufacturing Practices	Engineering Science Courses	1	0	0	2	1	0	0	0	0	100

<u>BE01000</u> <u>141</u>	19	2024-25	Universal Human Values	Humanities and Social Science, including Management Courses	1	2	0	0	2	70	30	0	0	100
<u>BE01000</u> <u>151</u>	19	2024-25	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	2	0	0	2	70	30	0	0	100
<u>BE01000</u> <u>161</u>	19	2024-25	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	2	0	0	2	70	30	0	0	100

### Semester 3

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE03000</u> <u>051</u>	19	2025-26	Professional Communication and Ethics	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	0	170
<u>BE03000</u> <u>061</u>	19	2025-26	Indian Constitution	Core Courses	3	30	0	0	30	2	50	0	30	0	80
<u>BE03000</u> <u>201</u>	19	2025-26	Engineering Thermodynamics	Professional Core Courses	3	45	0	30	45	4	70	30	50	0	200
<u>BE03000</u> <u>211</u>	19	2025-26	Mathematics 3 (Mechanical)	Basic Science Courses	3	45	0	30	45	4	70	30	50	0	200
<u>BE03000</u> <u>221</u>	19	2025-26	Material Science and Metallurgy	Professional Core Courses	3	45	0	30	45	4	70	30	50	0	200
<u>BE03000</u> <u>231</u>	19	2025-26	Machine Drawing and	Professional Core	3	45	0	60	15	4	70	30	50	0	200

			Elements of Machine Design	Courses														
<u>BE03000</u> <u>241</u>	19	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	0	5	170		

#### Semester 4

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE04000</u> <u>101</u>	19	2025-26	Environmental Science, Sustainability and Renewable Energy	Core Courses	4	30	30	0	0	2	70	30	20	0	120
<u>BE04000</u> <u>161</u>	19	2025-26	Fluid Mechanics	Professional Core Courses	4	45	0	30	45	4	70	30	50	0	200
<u>BE04000</u> <u>171</u>	19	2025-26	Kinematics and Theory of Machines	Professional Core Courses	4	45	0	30	45	4	70	30	50	0	200
<u>BE04000</u> <u>181</u>	19	2025-26	Mechanical Measurement and Metrology	Professional Core Courses	4	45	0	30	15	3	70	30	50	0	200
<u>BE04000</u> <u>191</u>	19	2025-26	Manufacturing Processes	Professional Core Courses	4	45	0	30	45	4	70	30	50	0	200
<u>BE04000</u> <u>201</u>	19	2025-26	Operation Research	Basic Science Courses	4	45	0	30	15	3	70	30	50	0	200

#### Semester 5

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE05000</u> <u>241</u>	19	2026-27	Oil Hydraulics and Pneumatics	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0	100

BE05000 251	19	2026-27	Control Engineering	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0	100
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BE05000 261	19	2026-27	Basics of Industrial Engineering	Professional Elective - I	5	3	0	2	NA	4	70	30	0	0	100
BE05000 271	19	2026-27	Quality and Reliability Engineering	Professional Elective - I	5	3	0	2	NA	4	70	30	20	0	150
BE05019 011	19	2026-27	Product Development and Value Engineering	Professional Elective - II	5	3	0	2	NA	4	70	30	20	0	150
BE05019 021	19	2026-27	Energy Conservation and Management	Professional Elective - II	5	3	0	2	NA	4	70	30	20	0	150
noc26-m e01	19	01-01-20 26	Robotics: Basics and Selected Advanced Concepts	PEC-01	5	3	0	0	NA	3	10	0	0	0	100
noc26-m e49	19	01-01-20 26	Product Design and Manufacturing	PEC-02	5	3	0	0	NA	3	10	0	0	0	100
noc26-m g77	19	01-01-20 26	Project Management	MOPEC-2	5	2	0	0	NA	2	10	0	0	0	100

### Semester 6

<u>Subcod e</u>	<u>Branc h code</u>	<u>Eff_fro m</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Yea r</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>PBL</u>	<u>Tota l</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Tota l</u>
BE06019 011	19	2026-27	Automobile Engineering	Professional Elective - I	6	3	0	2	NA	4	70	30	20	0	150

BE06019 021	19	2026-27	Advanced Manufacturing Processes	Professional 1 Elective - II	6	3	0	2	NA	4	7 0	30 0	2 0	3 0	150
BE06019 031	19	2026-27	Renewable Energy Engineering	Professional 1 Elective - II	6	3	0	2	NA	4	7 0	30 0	2 0	3 0	150
noc26-de 09	19	01-01-20 26	Design, Technology and Innovation	MOPEC-03	6	2	0	0	NA	2	1 0 0	0 0	0 0	0 0	100
noc26-ge 38	19	01-01-20 26	Non-conventional Energy Resources	PEC-04	6	3	0	0	NA	3	1 0 0	0 0	0 0	0 0	100
noc26-m e62	19	01-01-20 26	Design of Mechanical Transmission Systems	PEC-03	6	3	0	0	NA	3	1 0 0	0 0	0 0	0 0	100

### Semester 7

Subcode	Branch code	Eff_from	SubjectName	Category	Sem Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
BE07000 261	19	2027-28	Internet of Things	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	7 0	30 0	2 0	3 0	150
BE07019 011	19	2027-28	Refrigeration and Air Conditioning Engineering	Professional 1 Elective - I	7	3	0	2	NA	4	7 0	30 0	2 0	3 0	150
BE07019 021	19	2027-28	Machine Tool Design	Professional 1 Elective - I	7	3	0	2	NA	4	7 0	30 0	2 0	3 0	150
BE07019 031	19	2027-28	Advanced Machine Design	Professional 1 Elective - II	7	3	0	2	NA	4	7 0	30 0	2 0	3 0	150
noc26-m e11	19	01-01-20 26	Introduction to Uncertainty Analysis and Experimentation	MOPEC-4	7	2	0	0	NA	2	1 0	0 0	0 0	0 0	100
noc26-m e23	19	01-01-20 26	IC Engines and Gas Turbines	PEC-05	7	3	0	0	NA	3	1 0	0 0	0 0	0 0	100

noc26-m e45	19	01-01-20 26	Advanced Machining Processes	PEC-06	7	3	0	0	NA	3	1 0 0	0	0	0	0	100
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### Semester 8

Subcod e	Branc h code	Eff_fro m	SubjectName	Category	Sem /Yea r	L .	T .	P .	Tota l	E .	M .	I .	V .	Tota l
2181909	19	Dec 2017	Project – II		8	0	0	16	16	0	0	2 0	80	100
<a href="#">2181910</a>	19	Dec 2017	Renewable Energy Engineering		8	4	0	0	4	70	3 0	0	0	100
<a href="#">2181911</a>	19	Dec 2017	Finite Elements Method	Departmenta l Elective II	8	3	0	2	5	70	3 0	2 0	30	150
<a href="#">2181912</a>	19	Dec 2017	Optimization	Departmenta l Elective II	8	3	2	0	5	70	3 0	2 0	30	150
<a href="#">2181913</a>	19	Dec 2017	Product Design and Value Engineering	Departmenta l Elective II	8	3	2	0	5	70	30	2 0	30	150
<a href="#">2181914</a>	19	Dec 2017	Rapid Prototyping	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181915</a>	19	Dec 2017	Automobile Engineering	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181916</a>	19	Dec 2017	Energy Conservation and Management	Departmenta l Elective II	8	3	2	0	5	70	30	2 0	30	150
<a href="#">2181917</a>	19	Dec 2017	Cryogenic Engineering	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181918</a>	19	Dec 2017	Principles of Combustion Engineering	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181919</a>	19	Dec 2017	Robotics	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181920</a>	19	Dec 2017	Quality Engineering	Departmenta l Elective II	8	3	2	0	5	70	30	2 0	30	150
<a href="#">2181921</a>	19	Dec 2017	Design for Manufacturing and Assembly	Departmenta l Elective II	8	3	2	0	5	70	30	2 0	30	150
<a href="#">2181922</a>	19	Dec 2017	Automation	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181923</a>	19	Dec 2017	Enterpreneurshi p	Departmenta l Elective II	8	3	2	0	5	70	30	2 0	30	150
<a href="#">2181924</a>	19	Dec 2017	Design of Heat Exchanger	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181925</a>	19	Dec 2017	Computational Fluid Dynamics	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181926</a>	19	Dec 2017	Tribology	Departmenta l Elective II	8	3	0	2	5	70	30	2 0	30	150
<a href="#">2181927</a>	19	Dec 2017	Advance Welding	Departmenta	8	3	0	2	5	70	30	2 0	30	150

		Technology	1 Elective II							0		
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**Electronics & Communication Engineering Department Syllabus**  
**Semester 1 and 2**

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
<u>BE0100_0011</u>	01 1	2024-25	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	NA	0	0	0	0	0	
<u>BE0100_0021</u>	01 1	2024-25	Physics	Basic Science Courses	1	3	0	2	NA	4	70	30	20	30	150
<u>BE0100_0031</u>	01 1	2024-25	Chemistry	Basic Science Courses	1	3	0	2	NA	4	70	30	20	30	150
<u>BE0100_0041</u>	01 1	2024-25	Mathematics-I	Basic Science Courses	1	3	1	0	NA	4	70	30	00	00	100

<u>BE01000_051</u>	011	2024-25	Basic Electrical Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30	150
<u>BE0100_0061</u>	01 1	2024-25	Engineering Graphics & Design	Engineering Science Courses	1	3	0	2	NA	2	70	30	20	30	150
<u>BE0100_0071</u>	01 1	2024-25	Design Thinking	Engineering Science Courses	1	0	0	4	NA	2	0	0	20	80	100
<u>BE0100_0081</u>	01 1	2024-25	Basic Mechanical Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30	150
<u>BE0100_0111</u>	01 1	2024-25	Basic Electronics Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30	150

<u>BE0100 0121</u>	01 1	2024-25	Programming for Problem Solving	Engineering Science Courses	1	2	0	4	NA	4	70	30	20	30	150
<u>BE0100 0141</u>	01 1	2024-25	Universal Human Values	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	00	00	100
<u>BE0100 0151</u>	01 1	2024-25	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	00	00	100
<u>BE0100 0161</u>	01 1	2024-25	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	00	00	100
<u>BE0100 0181</u>	01 1	2024-25	Digital Fabrication Workshop	Engineering Science Courses	1	0	0	2	NA	1	0	0	20	80	100

### Semester 3

Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
<u>BE030 00051</u>	011	2025-26	Professional Communication and Ethics	Humanities and Social Science, including Management	3	3 0	0	3 0	0	2	7 0	3 0	2 0	5 0	170

				ent Courses (Elective)											
<u>BE030 00061</u>	011	2025-26	Indian Constitution	Core Courses	3	3 0	0	0	30	2	50 0	30 0	80		
<u>BE030 00161</u>	011	2025-26	Network Theory	Professional Core Courses	3	4 5	0	3 0	45	4	7 0	3 0	5 0	5 0	200
<u>BE030 00171</u>	011	2025-26	Signals and Systems	Professional Core Courses	3	4 5	0	3 0	45	4	7 0	3 0	5 0	5 0	200
<u>BE030 00181</u>	011	2025-26	Digital System Design	Professional Core Courses	3	6 0	0	3 0	30	4	7 0	3 0	5 0	5 0	200
<u>BE030 00241</u>	011	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including Management Courses (Elective)	3	3 0	0	3 0	0	2	7 0	3 0	2 0	5 0	170
<u>BE030 00251</u>	011	2025-26	Probability and Statistics	Basic Science Courses	3	4 5	0	3 0	45	4	7 0	3 0	5 0	5 0	200

#### Semester 4

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem/Year</u>	<u>L</u>	<u>T</u>	<u>P</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE040 00031</u>	011	2025-26	Principles of Communication	Professional	4	4 5	0	3 0	4 5	4	7 0	3 0	2 0	3 0	1 5 0

				Core Courses											
<u>BE040 00041</u>	011	2025-26	Control Systems	Professional Core Courses	4	4 5	0	3 0	1 5	3	7 0	3 0	2 0	3 0	1 5 0

<u>BE040 00051</u>	011	2025-26	Linear Integrated Circuits	Professional Core Courses	4	4 5	0	3 0	4 5	4	7 0	3 0	5 0	5 0	2 0 0
<u>BE040 00061</u>	011	2025-26	Microcontroller	Professional Core Courses	4	4 5	0	3 0	45	4	7 0	3 0	5 0	5 0	2 0 0
<u>BE040 00101</u>	011	2025-26	Environmental Science, Sustainability and Renewable Energy	Core Courses	4	3 0	3 0	0	0	2	7 0	3 0	2 0	2 0	1 2 0
<u>BE040 00301</u>	011	2025-26	Electromagnetics	Basic Science Courses	4	4 5	3 0	0	1 5	3	7 0	3 0	5 0	5 0	2 0 0

#### Semester 5

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem/Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
BE050 00081	011	2026-27	Antennas and Propagation	Professional Elective - I	5	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE050 00091	011	2026-27	Power Electronics	Professional Elective - I	5	3	0	2	NA	4	7 0	3 0	2 0	3 0	150

BE050 00101	011	2026-27	Sensors and Transducers	Professional Elective - II	5	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE050 00111	011	2026-27	Python Programming	Professional Elective - II	5	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE050 00121	011	2026-27	Computer Architecture & Operating Systems	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	7 0	3 0	0 0	0 0	100
BE050 00131	011	2026-27	Web and Mobile Application Development	Multidisciplinary Open Professional Electives Courses	5	3	0	0	N A	3	7 0	3 0	2 0	3 0	150

### Semester 6

Subcode	Branch code	Eff from	SubjectName	Category	Sem/Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
BE060 00091	011	2026-27	Machine Learning	Professional Elective - III	6	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE060 00101	011	2026-27	Digital Image Processing	Professional Elective - III	6	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE060 00111	011	2026-27	Satellite Communication	Professional Elective - IV	6	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE060 00121	011	2026-27	Digital Audio Processing	Professional Elective - IV	6	3	0	2	N A	4	7 0	3 0	2 0	3 0	150

BE060 00131	011	2026-27	Biomedical Electronics	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	7 0	3 0	0	0	100
BE060 00141	011	2026-27	Industrial Automation	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	7 0	3 0	0	0	100

### Semester 7

Subcode	Branch code	Eff_from	SubjectName	Category	Sem /Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
BE070 00081	011	2027-28	Wireless Sensor Networks	Professional Elective - V	7	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE070 00091	011	2027-28	Mixed Signal Design	Professional Elective - V	7	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE070 00101	011	2027-28	Semiconductor Manufacturing and Packaging	Professional Elective - VI	7	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE070 00111	011	2027-28	Internet of Things	Professional Elective - VI	7	3	0	2	NA	4	7 0	3 0	2 0	3 0	150
BE070 00121	011	2027-28	Computer Vision	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	7 0	3 0	0	0	100
BE070 00131	011	2027-28	FPGA Programming	Multidisciplinary	7	3	0	0	NA	3	7 0	3 0	0	0	100

				Open Professio nal Electives Courses												
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### Semester 8

<u>Subcod e</u>	<u>Branc h code</u>	<u>Eff fro m</u>	<u>SubjectNam e</u>	<u>Category</u>	<u>Sem /Yea r</u>	<u>L .</u>	<u>T .</u>	<u>P .</u>	<u>PBL</u>	<u>Tota l</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Tota l</u>
<a href="#"><u>2181102</u></a>	11	Dec 2017	Fundamentals of Image Processing	Departmental Elective III	8	4	0	2		6	70	30	20	30	150
<a href="#"><u>2181103</u></a>	11	Dec 2017	Radar & Navigational Aids	Departmental Elective III	8	4	0	2		6	70	30	20	30	150
<a href="#"><u>2181106</u></a>	11	Dec 2017	Device Driver & Writing	Departmental Elective III	8	4	0	2		6	70	30	20	30	150
<a href="#"><u>2181107</u></a>	11	Dec 2017	Testing And Verification	Departmental Elective III	8	4	0	2		6	70	30	20	30	150
2181108	11	Dec 2017	Project II		8	0	0	18		18	0	0	20	80	100

**CSE Syllabus**  
**Semester 1 & 2**

<b>Subcode</b>	<b>Branch code</b>	<b>Eff_from</b>	<b>SubjectName</b>	<b>Category</b>	<b>Sem /Year</b>	<b>L.</b>	<b>T.</b>	<b>P.</b>	<b>PBL</b>	<b>Total</b>	<b>E</b>	<b>M</b>	<b>I</b>	<b>V</b>	<b>Total</b>
<u>BE01000</u> <u>011</u>	31	2024-25	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	NA	0	0	0	0	0	0
<u>BE01000</u> <u>021</u>	31	2024-25	Physics	Basic Science Courses	1	3	0	2	NA	4	7	0	30	0	30
<u>BE01000</u> <u>031</u>	31	2024-25	Chemistry	Basic Science Courses	1	3	0	2	NA	4	7	0	30	0	30
<u>BE01000</u> <u>041</u>	31	2024-25	Mathematics-I	Basic Science Courses	1	3	1	0	NA	4	7	0	30	0	100
<u>BE01000</u> <u>051</u>	31	2024-25	Basic Electrical Engineering	Engineering Science Courses	1	3	0	2	NA	4	7	0	30	0	30
<u>BE01000</u> <u>061</u>	31	2024-25	Engineering Graphics & Design	Engineering Science Courses	1	1	0	2	NA	2	7	0	30	0	30
<u>BE01000</u> <u>071</u>	31	2024-25	Design Thinking	Engineering Science Courses	1	0	0	4	NA	2	0	0	0	80	100
<u>BE01000</u> <u>081</u>	31	2024-25	Basic Mechanical Engineering	Engineering Science Courses	1	3	0	2	NA	4	7	0	30	0	30
<u>BE01000</u> <u>111</u>	31	2024-25	Basic Electronics Engineering	Engineering Science Courses	1	3	0	2	NA	4	7	0	30	0	30
<u>BE01000</u> <u>121</u>	31	2024-25	Programming for Problem Solving	Engineering Science Courses	1	2	0	4	NA	4	7	0	30	0	30
<u>BE01000</u> <u>141</u>	31	2024-25	Universal Human Values	Humanities and Social Science, including Management	1	2	0	0	NA	2	7	0	30	0	0

				nt Courses											
<u>BE01000</u> <u>151</u>	31	2024-25	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	7 0	30 0	0 0	100	
<u>BE01000</u> <u>161</u>	31	2024-25	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	7 0	30 0	0 0	100	
<u>BE01000</u> <u>181</u>	31	2024-25	Digital Fabrication Workshop	Engineering Science Courses	1	0	0	2	NA	1	0 0	0 0	2 80	100	

### Semester 3

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE03000</u> <u>051</u>	31	2025-26	Professional Communication and Ethics	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	7 0	30 0	2 50	170	
<u>BE03000</u> <u>061</u>	31	2025-26	Indian Constitution	Core Courses	3	30	0	0	30	2	5 0	0 0	3 0	80	
<u>BE03000</u> <u>071</u>	31	2025-26	Digital Fundamentals	Professional Core Courses	3	45	0	30	45	4	7 0	30 0	5 50	200	
<u>BE03000</u> <u>081</u>	31	2025-26	Data Structures	Professional Core Courses	3	45	0	60	15	4	7 0	30 0	5 50	200	
<u>BE03000</u> <u>091</u>	31	2025-26	Database Management System	Professional Core Courses	3	45	0	30	45	4	7 0	30 0	5 50	200	
<u>BE03000</u> <u>241</u>	31	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including	3	30	0	30	0	2	7 0	30 0	2 50	170	

				Management Courses (Elective)											
<u>BE03000</u> <u>251</u>	31	2025-26	Probability and Statistics	Basic Science Courses	3	45	0	30	45	4	70	300	50	200	

#### Semester 4

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
<u>BE0400</u> <u>0101</u>	31	2025-26	Environmental Science, Sustainability and Renewable Energy	Core Courses	4	30	30	0	0	2	70	300	20	0	120
<u>BE0400</u> <u>0221</u>	31	2025-26	Operating System	Professional Core Courses	4	45	0	30	45	4	70	300	50	200	
<u>BE0400</u> <u>0231</u>	31	2025-26	Object Oriented Programming	Professional Core Courses	4	45	0	30	45	4	70	300	50	200	
<u>BE0400</u> <u>0241</u>	31	2025-26	Analysis and Design of Algorithms	Professional Core Courses	4	45	0	30	45	4	70	300	50	200	
<u>BE0400</u> <u>0251</u>	31	2025-26	Computer Organization & Architecture	Professional Core Courses	4	45	0	30	15	3	70	300	50	200	
<u>BE0400</u> <u>0261</u>	31	2025-26	Discrete Mathematics and Graph Theory	Basic Science Courses	4	45	0	30	15	3	70	300	50	200	

#### Semester 5

<u>Subcode</u>	<u>Branch code</u>	<u>Eff_from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem /Year</u>	<u>L.</u>	<u>T.</u>	<u>P.</u>	<u>PBL</u>	<u>Total</u>	<u>E</u>	<u>M</u>	<u>I</u>	<u>V</u>	<u>Total</u>
BE0500 0141	31	2026-27	System Software	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150
BE0500 0151	31	2026-27	Python for Data Science	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30	150

BE0500 0161	31	2026-27	Web Programming	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
BE0500 0171	31	2026-27	Data Mining	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30	150
<b>BE05000 181</b>	<b>31</b>	<b>2026-27</b>	Cyber Security	Multidisciplinary Open Professional Electives Courses	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	NA	<b>3</b>	<b>70</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>
<b>BE05000 191</b>	<b>31</b>	<b>2026-27</b>	IOT and Applications	Multidisciplinary Open Professional Electives Courses	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	NA	<b>3</b>	<b>70</b>	<b>30</b>	<b>20</b>	<b>30</b>	<b>150</b>

### Semester 6

Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	L.	T.	P.	PBL	Total	E	M	I	V	Total
BE0600 0151	31	2026-27	.Net Technology	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150
BE0600 0161	31	2026-27	Software Engineering	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 0171	31	2026-27	Image Processing	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30	150
BE0600 0181	31	2026-27	Big Data Analytics	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30	150

### Semester 7

Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	L.	T.	P.	PLB	Total	E	M	I	V	Total
BE0700 0151	31	2027-28	Deep Learning	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30	150
<b>BE0700 0161</b>	<b>31</b>	<b>2027-28</b>	Computer Vision	Professional Elective - V	<b>7</b>	<b>3</b>	<b>0</b>	<b>2</b>	NA	<b>4</b>	<b>70</b>	<b>30</b>	<b>20</b>	<b>30</b>	<b>150</b>

<a href="#"><u>BE0700 0171</u></a>	31	2027-28	Cloud Computing	Professional Elective - VI	7	3	0	2	NA	4	7 0	30	20	30	150
<a href="#"><u>BE0700 0181</u></a>	31	2027-28	Optimization Techniques for Machine Learning	Professional Elective - VI	7	3	0	2	NA	4	7 0	30	20	30	150
<a href="#"><u>BE0700 0191</u></a>	31	2027-28	Ethical Hacking	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	7 0	30	0	0	100
<a href="#"><u>BE0700 0201</u></a>	31	2027-28	Industrial 4.0 and Industrial IOT	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	7 0	30	0	0	100

### Semester 8

<u>Subcode</u>	<u>Branch code</u>	<u>Eff from</u>	<u>SubjectName</u>	<u>Category</u>	<u>Sem/Year</u>	L	T	P	Total	E	M	I	V	Total
<a href="#"><u>2180703</u></a>	07	Dec 2017	Artificial Intelligence		8	4	0	2	6	70	30	20	30	150
2180706	07	Dec 2017	Project (Phase-II)		8	0	0	16	16	0	0	20	80	100
<a href="#"><u>2180709</u></a>	07	Dec 2017	IOT and Applications	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180710</u></a>	07	Dec 2017	Big Data Analytics	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180711</u></a>	07	Dec 2017	Python Programming	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180712</u></a>	07	Dec 2017	Cloud Infrastructure and Services	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180713</u></a>	07	Dec 2017	Web data Management	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180714</u></a>	07	Dec 2017	iOS Programming	Departmental Elective III	8	3	0	2	5	70	30	20	30	150
<a href="#"><u>2180715</u></a>	07	Dec 2017	Android Programming	Departmental Elective III	8	3	0	2	5	70	30	20	30	150

□ Academic Calendar of the University:



# GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Government of Gujarat under Gujarat Act No. : 20 of 2007)

(Accredited with A+ Grade by NAAC)

## ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Ref./GTU/Academic Calendar/2025-26/Even/2025/9067

Date:01-12-2025

ACADEMIC CALENDAR FOR A.Y. 2025-26 (EVEN TERM)							
Sr. No.	Program Name	Sem	Start Date	End Date	Tentative Exam Start Date	Tentative Exam End Date	Tentative Result Date
1	PG Diploma in Data Science (PGDDS)	2	08-01-2026	14-05-2026	28-05-2026	10-06-2026	04-08-2026
2	Diploma in Engineering	2	02-02-2026	05-06-2026	18-06-2026	10-07-2026	07-09-2026
3	Diploma in Engineering /DE (Working Professionals)	4	22-12-2025	29-04-2026	13-05-2026	30-05-2026	24-07-2026
4	Diploma in Engineering /DE (Working Professionals)	6	22-12-2025	29-04-2026	12-05-2026	16-06-2026	10-08-2026
5	Diploma in Engineering	8	11-12-2025	17-04-2026	28-04-2026	16-05-2026	10-07-2026
6	Bachelor of Engineering	2	12-01-2026	16-05-2026	11-06-2026	03-07-2026	17-08-2026
7	Bachelor of Engineering /BE (Working Professionals)	4	01-01-2026	06-05-2026	19-05-2026	12-06-2026	27-07-2026
8	Bachelor of Engineering / BE (Working Professionals)	6	01-01-2026	06-05-2026	20-05-2026	09-07-2026	23-08-2026
9	Bachelor of Engineering / BE (Working Professionals)	8	01-01-2026	06-05-2026	18-05-2026	26-05-2026	10-07-2026
10	Bachelor of Engineering (Part Time)	6	01-12-2025	06-04-2026	24-04-2026	13-05-2026	27-06-2026
11	Bachelor of Engineering (Part Time)	8	01-12-2025	06-04-2026	23-04-2026	01-05-2026	15-06-2026
12	Master of Engineering (ME)	2	22-01-2026	28-05-2026	09-06-2026	04-07-2026	18-08-2026
13	Master of Engineering (ME)	4	11-12-2025	17-04-2026	01-05-2026	22-05-2026	06-07-2026
14	PG Diploma in Digital Marketing (PGDDM)	2	29-12-2025	04-05-2026	19-05-2026	26-05-2026	10-07-2026
15	PG Diploma in Hospital Management (PGDHM)	2	29-12-2025	04-05-2026	19-05-2026	26-05-2026	10-07-2026
16	Bachelor of Business Administration (Honours/ Honours with Research)	2	22-12-2025	28-04-2026	20-05-2026	26-05-2026	10-07-2026
17	Bachelor of Business Administration	4	11-12-2025	17-04-2026	01-05-2026	14-05-2026	28-06-2026
18	Bachelor of Business Administration	6	01-12-2025	06-04-2026	17-04-2026	27-04-2026	11-06-2026

Winner of : "4 Star rating in GSIRF (Gujarat State Institutional rating Framework) Published by KCG,  
 Dept. of Education Govt. of Gujarat" ✦ "GTU Ranked 71 in Pharmacy Category in NIRF-2023" ✦ "Green University  
 Accreditation in Platinum Ranking for 2021-2023" ✦ "1<sup>st</sup> rank Among All Universities in Gujarat 2020 by Uni Rank"

Head Office : GTU Campus, Nr. Visat Three Road, Visat-Gandhinagar Road, Chandkheda, Ahmedabad-382424. Gujarat, India.  
 Ph : +91 079-23267521/570      e-mail : info@gtu.ac.in      Website : www.gtu.ac.in

- Teaching Load of Faculty Members:** Details as per Academic Time Table.
- Internal Continuous Evaluation System and place:** Through class test and Assignment
- Students' assessment of Faculty, System in place:** Student feedback.

➤ **For each Post Graduate programme give the following:** N/A

- Title of the program
- Curricula and Syllabi
- Faculty Profile

➤ **Special Purpose**

- Software, all design tools in case
- Academic Calendar and frame work

**15 Enrollment and Placement Details of students in last three years :** Details provided above

**16 List of Research Project/Consultancy Works :** NIL

- Number of Projects Carried out, Funding agency, grant received
- Publication (if any) out of research in last three years out of master's projects
- Industry Linkage
- MoUs with Industries:
- LoA and subsequent EoA till the current Academic Year:

**All India Council for Technical Education**

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



**APPROVAL PROCESS 2025-26**

**Extension of Approval (EoA)**

F.No. Central/1-44642356386/2025/EoA

Date of Approval: 20-Mar-2025

To,

The Principal Secretary Deptt.  
Of Higher & Tech. Education,  
Govt. of Gujarat, New Sachivalaya B. No. 5,  
7th Floor Gandhi Nagar-382010

**Sub: Extension of Approval for the Academic Year 2025-26**

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2025-26

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education), Powers delegated in AICTE ACT 1987, (No 52 of 1987) chapter II - u/s 2(g) to regulate Technical and subsequent Regulations of AICTE, I am directed to convey the approval to:

<b>Permanent Id</b>	1-4317911	<b>Application Id</b>	1-44642356386
<b>Name of the Institution</b>	GOVERNMENT ENGINEERING COLLEGE, AT.KATPUR, PATAN	<b>Name of the Society/Trust</b>	GOVERNMENT ENGINEERING COLLEGE, AT.KATPUR, PATAN
<b>Institution Address</b>	GOVERNMENT ENGINEERING COLLEGE, AT.KATPUR, DIS.-PATAN TA.-PATAN NORTH GUJARAT, PATAN-384265, PATAN, PATAN, Gujarat, 384265	<b>Society/Trust Address</b>	GOVERNMENT ENGINEERING COLLEGE, AT.KATPUR, DIS.-PATAN TA.-PATAN NORTH GUJARAT, PATAN, PATAN, Gujarat, 384265
<b>Institution Type</b>	Government	<b>Region</b>	Central
<b>Year of Establishment</b>	2004		

**To conduct following Programs/Courses with the Intake Indicated below for the Academic Year 2025-26**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Gujarat Technological University, Ahmedabad	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Gujarat Technological University, Ahmedabad	120	120	No	No

Application No:1-44642356386

Note: This is a Computer generated Report. No signature is required.  
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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Government Engineering College  
PATAN(N.G.)Code No. 523

Page 1 of 4

Letter Printed On: 4 May 2025

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Gujarat Technological University, Ahmedabad	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	Gujarat Technological University, Ahmedabad	30	30	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Gujarat Technological University, Ahmedabad	90	90	No	No

All AICTE approved Institutions are empowered to nurture ecosystems for Skilling (through Vocational courses) via making effective use of existing infrastructure facilities and human resources.

**It is mandatory to comply with all the essential requirements as given in APH 2024-27 (Chapter-VI)**

The Institution/ University is having the following deficiencies as per the online application submitted to AICTE and the same shall be complied within Six Months from the date of issue of this EoA

Deficiencies Noted based on Self Disclosure	
Particulars	Deficiency
<b>1. Faculty Deficiency</b>	Yes
<b>2. Library Facilities</b>	
Volumes	Yes
Journals	Yes
<b>3. Other Facilities Deficiency</b>	
Establishment of 24x7 Women helpline number	Yes
Establishment of platform for seeking help	Yes
Implementation of PARAKH	Yes
Internship*	Yes
Inbuilt mechanism for Social & Emotional Learning	Yes
Internship(Compulsory for all final year students)	Yes
Electives mandatorily through SWAYAM(MOOCs)	Yes
Earning credits through 'Skilling' based courses	Yes
Language Laboratory (for DIPLOMA & UG Course)	Yes

\*Please refer Deficiency Report for details

## **Important Instructions**

1. As per mandatory Disclosure of APH 2024-27(Annexure-18, page180) Institutions must disclose the following information submitted to Council at the Prominent location on its website.
  - i. Department wise availability of infrastructure along with approved courses and intake approved by the Council.
  - ii. Faculty details: Department wise: Name& Designation of the faculty members/teaching staff along with their qualification, tenure of service in your organization, total experience, Institution should also disclose Student Faculty Ratio, Cadre Ratio.
  - iii. Additionally Audited Financial Statements for last 3 Financial years.
2. Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the Programmes. The concerned State Government/ UT Admission authority shall decide Modalities of Admission.
3. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2024-25 to 2027 for the Total Approved Intake.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the **Executive Council / General Council as available on the record of AICTE shall be final and binding.**
5. All AICTE institutions are highly encouraged to get NBA/NIAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.
6. Deemed to be University: Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.
7. AICTE Approved Institutes are encouraged to utilize SWAYAM PLUS Courses up-to 40%
8. Internship is mandatory for all admitted students.
9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:
  - a. Parakh: Student Gap analysis portal bases services.
  - b. Students Scholarship schemes like Pragati, Saksham, Swarnath, ADF, etc.
  - c. Course in Indian Languages.
  - d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.
  - e. Augmenting Utilization of Research Assets (AURA).
  - f. Smart India Hackathon: World's largest Open Innovation Platform.

**Prof.Rajive Kumar  
Member Secretary, AICTE**

Copy to:

1. **The Director Of Technical Education\*\*, Gujarat**
2. **The Registrar\*\*,**  
Gujarat Technological University, Ahmedabad



Application No:1-44642356386

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

PATAN(N.G.) Coll No. 52

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Letter Printed On: 4 May 2025

- 3. The Principal / Director,**  
GOVERNMENT ENGINEERING COLLEGE, AT.KATPUR, PATAN  
Government Engineering College,  
AT.Katpur,  
Dis.-Patan  
Ta.-Patan  
North Gujarat,  
Patan-384265,  
Patan,Patan,  
Gujarat,384265
  
- 4. The Secretary / Chairman,**  
GOVERNMENT ENGINEERING COLLEGE,  
AT.KATPUR,  
DIS.-PATAN  
TA.-PATAN  
NORTH GUJARAT  
PATAN,PATAN  
Gujarat,384265

**5. Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, a consolidated list of Approved Institutions(bulk) may be downloaded from the respective login id's.

*This is a computer generated Statement. No signature Required*

  
**Principal**  
**Government Engineering College**  
**PATAN (N.G.) Code No. 523**



## GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act No.: 20 of 2007)

## ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ હારા સ્થાપન)

Accredited with A+ grade by NAAC

Affiliation Process 2025-26

Affiliation Letter

Date: 02/06/2025

GTU/Inst\_Affi/022/2025-26

To,

The Principal,

GOVERNMENT ENGINEERING COLLEGE, AT. KATPUR, PATAN

At Post Katpur, Dist. Patan- 384265

**Sub. : Temporary Affiliation for the Academic Year 2025-26.**

**Read:** Gujarat Act No. : 20/2007 Gujarat Technological University.

**Ref. :** 1) Application for affiliation for the academic year 2025-26.

2) EOA letter for the year 2025-26 from AICTE.

3) AIC report of GTU for the year 2025-26/LIC report of GTU for 2025-26.

Dear Sir,

With reference to the above-mentioned subject and referred application, in terms of the provision under the section-8 and 26 of GTU Act 20/2007 issued by the Government of Gujarat, I am directed to convey the temporary affiliation for the year 2025-26 as per following details:

Name of Institute	GOVERNMENT ENGINEERING COLLEGE, AT. KATPUR, PATAN	Institute Address	At Post Katpur, Dist. Patan-384265
Name of Trust/Society/Body	NA	Trust/Society/Body Address	NA
Institute Type	GOVT.	GTU Institute Code	022
Year of Establishment		2008	

Change of Name	NO	Change of Site	NO	PIO Seats	NO
Change of Name Approved	N.A.	Change of Site Approved	N.A.	NRI Seats	N.A.

To conduct the following courses with the intake mentioned against the name of course indicated below for the academic year 2025-26:

Level	Course	Approved Intake for 2025-26
UG	CIVIL ENGINEERING	60
UG	ELECTRICAL ENGINEERING	60

022- GOVERNMENT ENGINEERING COLLEGE, AT. KATPUR, PATAN- 2025-26

  
Principal  
Government Engineering College,  
PATAN (N.G.) Code No. 523

Level	Course	Approved Intake for 2025-26
UG	ELECTRONICS & COMMUNICATION ENGG	30
UG	MECHANICAL ENGINEERING	90
UG	COMPUTER SCIENCE AND ENGINEERING	120

→ Above mentioned approval is subject to the condition that institute shall follow and adhere to the regulations, guidelines and direction issued by AICTE/PCI and GTU from time to time and the undertaking / affidavit given by the institute along with the application submitted by the institution.

→ For Course(s) in vocational(Technical) Programme(B. Voc & D.Voc), please refer clause 1.3.3 of AICTE APH 2024-27, and the Institution will ensure that the minimum batch size of 10 students shall be maintained for each course.

**The following compliances are required to be done by your Institute/College Immediately.**

**Observation by AIC/LIC committee(if any):**

**Important Instructions**

1. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of UGC regulation "Prevention and Prohibition of Ragging in Technical Institutions, Universities including Deemed to Universities imparting technical education" Regulation 2009.
2. As per the instruction of UGC/AICTE/GOG/Admission Committee Gujarat, no any institute can keep Original documents of any students.
3. University may also conduct inspections with or without notifying the dates to verify specific complaints or non-representation, violation of norms and standards, mal-practices etc.
4. Institute has to maintain Faculty - Student ratio as per the concern apex body norms.
5. Institute has to update teaching staff details in affiliation portal regularly.
6. The above mentioned criteria will be considered from upcoming year and all institutes are instructed to seek prior permission from GTU before introduction of new programme, any change in existing programme and extension of affiliation in existing courses before applying to AICTE/COA/PCI/or any apex body. Those institutions who have not completed the deficiencies of the previous year LIC report, university authority will take action against the institute and shall put the institute under "No Admission Zone" for the entire set of courses in the next academic year even though approval is given by apex body.
7. All GTU Affiliated institutions are highly encouraged to get NBA/NAAC accreditation. All eligible institutions are thoroughly encouraged to participate in NIRF ranking process.

8. All GTU affiliated institutions (runs programs UG and above) are highly encouraged to get recognition under section 2(f) of UGC Act 1956.

9. The Institute has to Provide Sufficient International Journals, E-Journals, Library books titles & Volumes are purchase as Prescribe by AICTE/PCI Norms.

10. The Institute has to Provide Sufficient facility to develop skill knowledge as per requirement of curriculum.

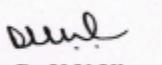
11. The Institute has to appoint Administrative staff as per norms.

12. The Institute has to Provide sufficient E - assessment facility and teaching staff as and when required.

13. The Institute has to Provide teaching staff for the examination related work like observer duty, examiner duty,etc. And also has to provide teaching staff for the academic related work.

Please note that University can take appropriate action according to the provision of the Gujarat act 20/2007 and issue appropriate affiliation letter Notification in case of non compliance of the deficiency.

♦ This order is issued with the approval of Hon'ble Vice-Chancellor.

  
Dr.K.N.Kher  
Registrar

**Copy Submitted with respect to:-**

**The Principal Secretary (Technical Education), Education Department, Block no-5,8th Floor, New Sachivalaya, Gandhinagar-382010.**

**The Director, Commissionerate of Technical Education, Wing-B, 6th floor, Karmayogi Bhavan, Gandhinagar.**

**The Member-Secretary, ACPC/ACPDC, Ahmedabad.**

**Office Copy.**

  
Principal  
Government Engineering College  
PATAN (N.G.) Code No. 523

**Note :**

- 1) GTU reserves the right to conduct inspection at any time during the year and take necessary action based on AIC/LIC report/data/complain etc.
- 2) AIC is for Existing Institutes and LIC is for New Institutes.
- 3) Individual Approval letter copy will not be communicated through Post/Email.

*P.P*  
Principal  
Government Engineering College  
PATAN (N.G.) Code No. 523

**15. Accounted audited statement for the last three years:**

**Audited Statement of Account of 2020-2021 [Income & Expenditure Statement for Complete year]**

Income		Expenditure	
Sr. No.	Details	Sr. No.	Details
1	Tuition Fees	1	Salary
2	Other Fees/Ambulance Collected From Students	2	Administrative Expenses
3	Grant from Govt./Private Agencies	3	Training & Development
4	Grant/Contribution From Other Sources (Management)	4	Laboratory Consumables
5	Scholarship Received	5	Library
6	Other Income	6	Travel
		7	Fees Paid to University/Board/Government/ATC/TE/UGC
		8	Repairs and Maintenance
		9	Scholarship/Concessions/Fellowships/Honorarium etc. awarded/incurred (other than Govt. grants)
		10	Expenditure of grants received from Govt./Private Agencies
		11	Depreciation
		12	Any other Expenditure
	Total		Total

*Debt*  
Principal  
Printed  
Government Engineering College  
PATNA, (H. C.)

*Abbas*  
Account Officer

16 Best Practice adopted, if any.