



# Academic Booklet

**Academic Year 2025-26**

**Bachelor of Technology in  
COMPUTE SCIENCE & ENGINEERING  
(B. Tech CSE/CE/Int.)  
Semester – 6**

**Department of Computer Science & Engineering  
Parul Institute of Technology  
Faculty of Engineering & Technology  
Parul University**

# Our Management Team



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President  
Parul University



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Vice President (Quality, Research & Health Sciences) & Medical Director  
Parul University



Dr. Komal Patel  
Vice President (Medical & Paramedical Health Sciences) & Medical Director  
Parul University



Dr. Vinod Patel  
Member, Board of Management  
Parul University



Dr. Arvind Patel  
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Parul University

# University Administration Team



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Provost  
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Prof. Manish Pandya  
Registrar  
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# FET Management Team



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## About the University

Parul University, Vadodara, stands today as one of Gujarat's leading private universities - a vibrant hub of higher education, healthcare, research, and innovation. Its journey began with the Parul Arogya Seva Mandal Trust, which first made its mark in the healthcare sector before establishing Gujarat's first self-financed Homeopathic Medical College in Ahmedabad in 1993. This marked the beginning of a legacy committed to quality and holistic learning.

Over time, the vision grew into the Parul Group of Institutions, offering programs in Engineering, Technology, Ayurveda, Nursing, Physiotherapy, Pharmacy, Management, Architecture, and more. The **Government of Gujarat established Parul University** through the *Gujarat Private Universities (Second Amendment) Act, 2015*, recognizing its growth and impact.

Starting with 16 institutes and about 50 programs, the University has grown into a multidisciplinary ecosystem of 38 constituent colleges and 21 faculties offering Diploma, UG, PG, and Ph.D. programs, including seven constituent colleges that function as teaching hospitals. Today, it is home to over 65,000 students and 8,000 staff, including 4,500+ international students from 75+ countries, on a 125-acre eco-friendly campus equipped with modern classrooms, laboratories, hostels, sports arenas, and cultural spaces.

Parul University has earned **NAAC accreditation with the highest A++ grade (3.55 CGPA)** in its very first assessment cycle, **UGC Category-1 status with Graded Autonomy**, and the prestigious **Centre of Excellence** status by the State Government. In NIRF 2025, it ranked among India's top 150 universities, 41st in Pharmacy, and within the top 50 for Innovation. It has achieved 5-star ratings in Pharmacy, Engineering, Management, and Applied Sciences, and 4-star ratings in University and Medical categories in **GSIRF-2024**; along with Diamond Ratings in **QS I-GAUGE**, with Platinum in Medicine, Engineering, and Pharmacy. It also made a global debut in the **Times Higher Education Impact Rankings 2025**, securing ranks among India's top 50 for Quality Education (SDG 4), Gender Equality (SDG 5), Good Health & Well-being (SDG 3), and Partnerships for the Goals (SDG 17). The hospitals hold NABH accreditation with Platinum Level Certification for Digital Health Standards, along with the NABL-accredited Molecular Laboratory at Parul Sevashram Hospital.

True to its mission, Parul University Parul University delivers holistic education, fosters innovation, and advances sustainable development. With its achievements, global collaborations, and commitment to quality, it stands as Gujarat's leading private university, setting new benchmarks in higher education.

### **VISION**

To make successful academic quests through entrepreneurship. Research, modernization and partnerships, thus making PU the finest educational destination

## **MISSION**

- Bridging the gap between academia and career, by laying emphasis on development programs for both students and staff.
- Promoting healthy relationships between PU's existing students, alumni, teachers and staff
- Forming associations with other universities and corporate firms of the nation and the world
- Presenting state of the art infrastructure with high quality and work ethics.

## **QUALITY POLICY**

To strive towards attaining the status of global educational university by setting higher benchmarks in quality education to deliver excellence in academics, research, innovation and extension activities through the implementation of best practices adopted by renowned academic institutes in teaching and learning processes by continuously monitoring the effectiveness of the University's practices, fostering a quality learning ecosystem through state-of-the-art facilities to enable the beneficiaries to enhance their skillsets and knowledge, with enhanced emphasis on comprehensive development.

## About the Institute

Parul Institute of Technology (PIT) was established in the year 2010 and is now a part of the Faculty of Engineering and Technology, functioning under the aegis of Parul University. The Institute operates as per the Gujarat Private University Act, 2009, following the legislation passed by the Government of Gujarat on 26th March 2015, which granted university status to the Parul Group of Institutes functioning under the Parul Arogya Seva Mandal Trust. The Institute offers an eight-semester Bachelor of Technology (B.Tech.) program across various departments, including Agricultural Engineering (AG), Automobile Engineering (AU), Biomedical Engineering (BME), Biotechnology (BT), Chemical Engineering (CH), Computer Science and Engineering (CSE), Dairy Technology (DT), Food Technology (FT), Mechatronics Engineering (MT), Petroleum Engineering (PE), and Robotics and Automation (RA). Institute also offers a four-semester Master of Technology (M.Tech.) and Doctor of Philosophy (Ph.D.) program in select disciplines, namely Biomedical Engineering (BM), Chemical Engineering (CH), Mechatronics Engineering (MT), and Automation & Robotics (AR). Additionally, Diploma programs are available in Agricultural Engineering (AG), Automobile Engineering (AU), Biomedical Engineering (BM), Biotechnology (BT), Chemical Engineering (CH), Dairy Technology (DT), Food Technology (FT), Mechatronics Engineering (MT), Petrochemical Engineering (PE) and Robotics and Automation (RA) under the aegis of Parul University. The Civil Engineering (CV), Electrical Engineering (EE), and Applied Science and Humanities (ASH) departments play a crucial role in imparting core scientific, mathematical, and communication skills, thereby strengthening the technical foundation of engineering students. The Career Development Cell (CDC) is dedicated to training and placement activities, enhancing students' employability, and nurturing professional excellence.

The core objective of Parul Institute of Technology is to provide students with a strong foundation in engineering education, enhance their understanding and application of engineering principles, and contribute to the techno-economic development of the nation. The Institute strives to improve the quality of life through its teaching, research, and outreach programs. Parul Institute of Technology is committed to preparing its graduates to become intellectual leaders in industry, academia, and government. The alumni of the Institute possess the professional and analytical skills required to excel as career engineers and to pursue advanced studies in leading graduate programs worldwide. Parul Institute of Technology maintains active collaborations with leading academic institutions and industries, including Wroclaw University of Science and Technology, Poland, University of Applied Sciences, Bielefeld, Germany, Škoda Auto University, Czech Republic, CII, Indo-German Tool Room, LST Power, and AIMTRON, among others. To strengthen the bridge between industry and academia, the Institute has signed several Memoranda of Understanding (MoUs) that foster mutual growth and cooperation. These partnerships provide students with valuable opportunities for placements, internships, fieldwork, hands-on industrial exposure, and industry-oriented research projects, thereby enhancing their practical learning and career readiness.

### **VISION**

Carving a better future for mankind by nurturing and developing effective and conscientious individuals and organizations. Our vision is to facilitate all round development of its students, to help them recognize their potential, to ensure that its students not only become

dynamic professionals, but also socially responsible and worthy citizens of a great country.

## **MISSION**

Our mission is to evolve into a "Global Institution of Academic Excellence". "Educational opportunity to all" and "Student polar education" are the two principal motives of Parul Group of Institutes. Sensitivity towards economic, environmental, industrial, social, educational, scientific & technological changes, willingness to accommodate & adopt them that leads to accomplishment and evolution of ever enriching educational opportunity through kaizen and value addition. Education at Parul Group of Institutes should liberate students to explore, to create, to challenge, to lead, and to enhance quality of life in a multicultural & knowledge-based society.

## About the Department

The Department of Computer Science and Engineering at Parul Institute of Technology stands as a hub of academic excellence, nurturing innovation and fostering global success. With an intake of over 7000 students and a dedicated team of 130+ experienced faculty members, the department offers an enriching environment for learning and research.

Equipped with 25+ state-of-the-art computer laboratories, our infrastructure provides students with extensive hands-on experience under the guidance of expert mentors. Through strategic collaborations with industry leaders such as Microsoft, Oracle, Intel, and SAP, our curriculum remains at the forefront of technological advancements, enhancing placement opportunities in renowned organizations including Juspay, Civica, Mastek Ltd, and Sophos.

As an Apple Authorized Training Center, and with specialized labs in Advanced Networking and IoT, we enable students to explore emerging technologies. The department actively promotes innovation through initiatives like the Google Developer Students Club (GDSC) and industry internships. Our strong alumni network, supported by the Alumni Student Membership Program (ASMP), provides valuable mentorship and guidance to current students.

To further refine technical expertise, students earn certifications from Coursera, NPTEL, and edX, while hackathons offer platforms to showcase creativity and problem-solving skills. Beyond academics, we emphasize holistic development through active participation in sports, cultural activities, and NCC.

At Parul Institute of Technology, we are committed to grooming the next generation of technology leaders—equipped with knowledge, innovation, and the confidence to excel in the digital era.

### **VISION**

To be a distinct hub of education that prepares skilled professionals in the field of Computer Science and Engineering.

### **MISSION**

- Enhance academic performance by adopting industry-oriented curriculum focusing on the thrust area of computer education through integrated learning in collaboration with prominent industries.
- Preparing students to face challenges of the real world through internships and

project-based learning.

- Foster a research culture that results in a sound knowledge base, high-quality publications, new products and IPR.
- Inculcate ethical consciousness in students so that they can achieve success in their professional endeavors and can become responsible citizens.

## **CODE OF CONDUCT**

- All students of Parul University shall compulsorily display their university ID cards by wearing it round their neck. If any student is found without an ID card on any day' he/she will be marked absent for that day.
- The university expects all the students to behave in a manner expected of a prudent person.
- The students shall be dressed in a presentable manner which does not invite criticism from any quarter.
- The students shall strictly adhere to the class timings and be punctual in attending all classes.
- The students shall display cordial, genial and respectful behavior towards their teachers.
- The students should be polite, cooperative, and respectful in dealing with the employees of the University.
- The students shall maintain the highest order of cleanliness in the classroom as well as in the college Premises.
- The students should not indulge in boisterous behavior at any place on the university Campus.
- The students shall follow the directions issued in accessing common places such as library, canteen, sports fields, auditorium, gymnasium, swimming pool etc....
- The students shall strictly follow the schedules given by the class teacher regarding the assignments, class tests, examinations, practicals etc....and shall complete the assigned work within the duration specified by their teachers.
- The students shall follow the instructions given by the teacher during practicals in relation to the use of laboratory/workshop/implements/equipment...
- Whenever the student has queries regarding their performance from either the class teacher or from any office in the College/University' they should follow the procedures laid down for the same and approach the concerned with utmost respect to the Authority.
- The students shall pay all prescribed fees at the stipulated times and avoid being penalized for non-payment of fees.
- The students shall not indulge in unfair means during the conduct of class tests/internal and external examinations.
- The students shall not indulge in unlawful assembly at any place in the campus.
- Any problem encountered by the students should be brought to the notice of the Authorities immediately available in the College/University.
- The students should never take law into their own hands and report any matter of lawlessness or harassment to the College Authorities immediately which, in turn, will initiate suitable action.

- The students shall participate in all national events such as Independence Day, Republic Day organized by the University.
- The students should not indulge in any of the activities which adversely affect the reputation of the University.
- The students shall not consume prohibited substances such as alcohol, narcotics, Marijuana, Heroin, Cocaine etc. and shall not keep in their custody/hostel premises illegal objects/materials such as firearms, missiles, bombs, narcotics, alcohol or other intoxicants etc.
- Smoking and chewing of tobacco are strictly prohibited in the campus.
- UGC has directed all the universities to strictly implement anti-ragging measures in universities and colleges. It is also the responsibility of the institutions in the university to ensure safety of the newcomers and to protect them from any incidence which may harm either their physical or mental faculties. Any student, who has been found involved in the incident related to ragging, strict disciplinary action as enumerated in UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009 will be initiated against the delinquent student.
- Any violation of the provisions mentioned above will be viewed as an Act of Misconduct and university, after conducting a thorough probe into such incidents, shall initiate strict disciplinary action against delinquent students.

#### **CODE OF CONDUCT FOR FOREIGN STUDENTS WHILE RESIDING OUTSIDE THE UNIVERSITY CAMPUS**

A number of foreign nationals are studying in the university under various degree programmes. Those foreign students who stay outside the campus will have to adhere to certain code of conduct as mentioned below.

- They must enter into a rent Agreement with the owners of the accommodation and submit a copy of the same to the ISAC in the University.
- They shall inform the local police about their residence.
- Boys and girls should necessarily stay in separate accommodation.
- They shall not consume any narcotic substance such as Marijuana, Heroin, Cocaine etc.... In case, they consume alcohol, they should necessarily have obtained permit for the same from competent authorities. Any violation would make them liable for disciplinary action from the concerned authorities.
- They should not play loud music in their accommodation which would serve as a nuisance to the neighbors. They should maintain cordial relations with their neighbors and shall live in harmony with them. Further, they should not indulge in any boisterous behavior such as getting into altercation with neighbors, causing disturbance to them etc. Moreover, they shall always maintain the social decorum by behaving politely, wearing appropriate attire to ensure the amicable living

atmosphere with others.

- Whenever they leave town for any reason, they should necessarily inform the authorities in ISAC and their counsellor.

### **REGULATIONS FOR BOARDERS RESIDING IN THE UNIVERSITY HOSTELS: GENERAL**

- All students shall conform to the rules of good conduct and shall respect the authorities of the university.
- Students shall put in efforts to protect the property of the university and make proper use of the facilities provided.
- No student shall deface or destroy any university or public property.
- Students shall maintain proper decorum in all places such as classrooms, hostels, laboratories, sports facilities, transport facilities etc...
- Students shall not disturb the normal work of the university by disorderly conduct, boisterous behavior and unauthorized assembly.
- Ragging in any form is strictly prohibited.
- Consumption of alcohol or drunkenness or drug addiction or gambling on the campus is strictly prohibited.
- Students should not indulge in celebration of any festivals on days other than those notified by the university.
- Violation of any of the regulations will be treated as an act of indiscipline and shall be brought to the notice of the Hostel Superintendent by the concerned student.
- The Hostel superintendent in consultation with the concerned Rectors shall enquire into the matter and may implement immediate measures such as giving a warning, imposing a fine or debarring from the hostel for a period not exceeding one month.
- In further cases of serious indiscipline, an Inquiry cum Disciplinary Committee may be formed comprising officials in the university and the said Committee shall inquire into acts of indiscipline and suggest punitive measures to the Higher Authorities in the University.
- The decision of the higher authorities in the university in all these matters shall be final and binding on all concerned.
- The Rector of each hostel shall hold weekly open meetings with the boarders on designated day and time to address the grievances of the boarders, if any.
- Similar open meetings will be held by the Hostel Superintendent with the boarders once a month on designated day and time to address the grievances of the boarders, if any.

### **ADMISSION TO THE HOSTELS**

- Any student admitted to any institution in the university is eligible to be admitted to the concerned hostel subject to the availability of accommodation.
- Preference will be given to the regular students of the university.
- Application may be made to the Rector of the hostel on payment of prescribed application fees.
- The Rector of the hostel in consultation with the Hostel Superintendent shall allot rooms to the applicants depending upon the availability.

### **PAYMENT OF HOSTEL FEES**

- Every boarder in the hostel shall pay the prescribed fees from time to time.
- The Hostel Fees will be decided by the Management of the Trust running the hostels.
- In case, the prescribed fees are not paid in time, the boarder shall have to pay the fine as decided by the Management of the Trust.

### **BEHAVIOUR OF BOARDERS IN THE HOSTEL**

- The boarders shall not change the room allotted to them by the Rector without the permission of the Rector.
- The boarders shall keep their rooms neat and tidy and shall cooperate with the hostel management in safe upkeep of the common utilities provided to them.
- The boarders shall allow the Rector to inspect their rooms whenever demanded.
- The corridors, toilets, reading room, TV room, mess etc.... are common utilities provided by the hostel and it is the responsibility of every boarder to use them appropriately without causing any damage.
- The boarders themselves are responsible for the safety of their belongings and are advised not to keep any valuable items in their rooms.
- The boarders shall not consume prohibited substances such as alcohol, narcotics, Marijuana, Heroin, Cocaine etc. and shall not keep in their custody/hostel premises illegal objects/ materials such as firearms, missiles, bombs, narcotics, alcohol or other intoxicants etc.
- Smoking and chewing of tobacco is strictly prohibited.
- Gambling in any form is strictly prohibited.
- Viewing prohibited material on personal computers, laptops, mobile and other electronics devices will be strictly viewed as an act of indiscipline.
- No person other than the boarders shall be allowed to enter the hostel premises without the permission of the Rector.
- Boarders shall not allow any guests to stay overnight in their rooms.
- No boarder shall stay outside the hostel after 9:00 PM without prior permission of the Rector. However, boarders in the Ladies' Hostel shall not remain outside the

hostel beyond 7: 30 PM without prior permission of the Rector. Any violation of this provision shall be viewed seriously and disciplinary proceedings will be initiated.

- Boarders shall treat all employees of the hostel with courtesy and respect.
- Boarders shall not hold any unauthorized meeting in the hostel premises.
- Boarders shall vacate the hostel during vacations to facilitate upkeep of the hostels.
- Boarders shall wear proper dresses when they visit the common room, dining hall or any public place on the university campus.
- Any complaint or grievances which the boarders have shall be reported to the Rector who in turn shall bring it to the notice of the Hostel Superintendent immediately for redressal.

### **HOSTEL MESS**

- There shall be as many number of messes as is required in the university premises.
- All meals, breakfast etc... will be served only in the mess.
- Boarders shall have food only in that mess to which they are allotted.
- The mess charges shall be collected along with the hostel fees as determined by the Trust.
- Boarders shall treat all mess workers with courtesy and respect.
- Food will not be taken out of the mess for any reason.
- Any complaints regarding the quality of food shall be brought to the notice of the concerned Rectors and Hostel Superintendent.
- The boarders shall strictly adhere to the timings of the mess.
- The boarders will have to be properly dressed while coming to the mess.

### **Code of Discipline:**

- Academic Integrity: Be honest in all academic work; avoid plagiarism and cheating.
- Respectful Behavior: Treat everyone with respect; no discrimination, harassment, or bullying.
- Attendance: Attend classes regularly and participate actively.
- Professionalism: Exhibit professionalism in behavior, attire, and communication.
- Resource Use: Use university resources responsibly.
- Community Engagement: Participate in community service.
- Respect: Treat everyone with respect and dignity.
- Compliance: Follow all laws and university policies.
- Integrity: Maintain honesty in all activities.
- Responsibility: Be accountable for one's actions.

### **Unaccepted Behavior:**

- Dishonesty: Plagiarism, cheating, or any form of academic fraud.
- Disrespect: Discrimination, harassment, bullying, or any form of disrespect towards faculty, staff, or peers.
- Absenteeism: Frequent unexcused absences from classes and other mandatory activities.
- Unprofessionalism: Inappropriate attire, unpunctuality, irresponsible communication, and failure to meet deadlines.
- Resource Misuse: Unauthorized or unethical use of university facilities and resources.
- Disruption: Any actions that disrupt the educational environment or university operations.
- Substance Abuse: Use or possession of illegal drugs or alcohol on campus.
- Violence: Any form of physical violence or threats against others.
- Theft: Stealing or damaging university or personal property.
- Cyber Misconduct: Unauthorized access to or misuse of university digital resources.
- Insubordination: Defying or disrespecting authority figures within the university.
- Gambling: Engaging in gambling activities on campus.
- Unauthorized Gatherings: Participating in or organizing unapproved gatherings or protests.
- Unethical Behavior: Any actions that compromise the ethical standards of the university.

### **Disciplinary Measures:**

- Warnings: Issuance of verbal or written warnings for minor infractions.
- Probation: Placing the individual on probation with specific conditions for improvement.
- Detention from Academics: Temporary restriction from attending classes or participating in academic activities.
- Suspension: Temporary suspension from classes, activities, or university services for serious or repeated offenses.
- Expulsion: Permanent expulsion from the university for severe or continued violations of the code of conduct.

## ABOUT THE PROGRAMME

Computer Science has become one of the most fundamental pillars of progress across diverse sectors, including business, technology, and administration. It plays a crucial role in driving innovation, efficiency, and data-driven decision-making.

The Department of Computer Science and Engineering, under the Faculty of Engineering, offers a comprehensive four-year Bachelor's Degree program designed to provide students with a strong foundation in computer science principles, analytical thinking, and expert-level technical knowledge.

To ensure hands-on learning and real-time technical exposure, the department is equipped with state-of-the-art laboratories and computing facilities, enabling students to actively engage with real-world applications of computational processes.

The curriculum covers a wide spectrum of contemporary subjects such as Data Science, Business Analytics, Machine Learning, Tableau, and Python, ensuring that students stay aligned with current industry trends. The program is guided by highly qualified and experienced faculty members who blend academic excellence with industry expertise, preparing students for diverse and dynamic career paths in the global technology ecosystem.

## **PROGRAM EDUCATIONAL OBJECTIVES(PEOS)**

### **Program Educational Objectives**

<b>PEO 1</b>	Pursue a successful career in engineering involving professional knowledge and skills for analysis, design and solution of real-time engineering problems.
<b>PEO 2</b>	Excel in a professional career with sound fundamental knowledge and pursue lifelong learning, including higher education and research.
<b>PEO 3</b>	Excel in a professional career with sound fundamental knowledge and pursue lifelong learning, including higher education and research.

## **PROGRAM LEARNING OUTCOMES (PLOS)**

Program Learning outcomes are statements conveying the intent of a program of study.

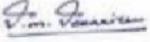
<b>PLO 1</b>	<b>Engineering knowledge:</b>	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PLO 2</b>	<b>Problem analysis:</b>	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.
<b>PLO 3</b>	<b>Design/development of solutions:</b>	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
<b>PLO 4</b>	<b>Conduct investigations of complex problems:</b>	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PLO 5</b>	<b>Modern tool usage:</b>	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
<b>PLO 6</b>	<b>The engineer and society:</b>	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>PLO 7</b>	<b>Environment and</b>	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for

	<b>sustainability:</b>	sustainable development.
<b>PLO 8</b>	<b>Ethics:</b>	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PLO 9</b>	<b>Individual and team work:</b>	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PLO 10</b>	<b>Communication :</b>	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>PLO 11</b>	<b>Project management and finance:</b>	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>PLO 12</b>	<b>Life-long learning:</b>	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **PROGRAM SPECIFIC LEARNING OUTCOMES (PSOS)**

<b>PSO 1</b>	An ability to analyze, design, verify, validate, code, and maintain the solution of given problem to derive execution of software system.
<b>PSO 2</b>	An ability to understand, apply and work with one or more domain using knowledge of mathematical techniques and principles with relevant areas of computer science.

## ACADEMIC CALENDAR

Faculty of Engineering & Technology							<b>Parul® University</b>	<b>NAAC A++</b>
Academic Calendar (ACY 2025-26) (Even Term)								
Bachelor of Technology/Diploma Engineering/IEDP/M.Tech Courses (Reg Sem - IV, VI, VIII)								
Week	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY		
01 Nov	24 Teaching Start	25	26	27	28	29		
02 Dec	01	02	03	04	05	06		
03	08	09	10	11	12	13		
04	15	16	17	18	19	20		
05	22	23	24	25 Christmas	26	27	Weekly 1	
06 Dec/Jan	29	30	31	01	02	03	Weekly 2	
07	05	06	07	08	09	10	Weekly 3	
08	12	13	14 Maker Sakranti	15 Sakranti - 2nd Day	16	17	Weekly 4	
09	19	20	21	22	23	24	Weekly 5	
10 Jan	26 Republic Day	27	28	29	30	31	Weekly 6	
11 Feb	02	03	04 Tech Expo	05 Tech Expo	06	07		
12	09 Mid Sem Exam	10 Mid Sem Exam	11 Mid Sem Exam	12 Mid Sem Exam	13 Mid Sem Exam	14 Mid Sem Exam		
13	16	17	18	19	20	21		
14	23	24	25	26	27	28		
15 Mar	02	03	04	05 Dhuleet	06	07		
16	09	10	11	12	13	14		
17	16 TW Submission	17 TW Submission	18 TW Submission	19 TW Submission	20 Eid-ul-Fitr	21 TW Submission		
18	23	24	25	26 Ram Navami	27	28	Teaching End	
19 Mar/Apr	30 ESE (Practical)	31 Mahavir Janma Kabiniak	01 ESE (Practical)	02 ESE (Practical)	03 ESE (Practical)	04 ESE (Practical)		
20	06 ESE (Practical)	07 ESE (Practical)	08 ESE (Practical)	09 ESE (Practical)	10 ESE (Practical)	11 ESE (Practical)		
21	13 ESE (Theory)	14 Baba Saheb Ambedkar Birthday	15 ESE (Theory)	16 ESE (Theory)	17 ESE (Theory)	18 ESE (Theory)		
22	20 ESE (Theory)	21 ESE (Theory)	22 ESE (Theory)	23 ESE (Theory)	24 ESE (Theory)	25 ESE (Theory)		
Important Notes	1. Marks Locking date by HOD : 23th March, 2026 2. Marks Locking date by Principal and Dean : 25th March, 2026 3. End Sem Practical Dates : 30th March - 11th April, 2026 4. End Sem Theory Dates : 13th - 25th Apr, 2026 5. End Sem Supplementary Exam Dates : 27th April, 2026 Onwards 6. Mid Sem-F2(Remedial) grade Exam Dates:19th Jan,2026 7. New Term (Even) Commencement : 2nd week of June, 2026 Onwards							 Dean - Faculty of Engg & Tech

## ACADEMIC CALENDAR SUMMARY OR INFORMATION

Start of the Semester	November 24, 2025
Weekly Exam	December 27, 2025 to January 31, 2026
Mid Term Exam	February 09, 2026 to February 14, 2026
Result of Mid Term Exam	February 23, 2026
Assignment Submission (Previous Semester)	January 10, 2026
Remedial Mid-Term Exam of Previous Semester (From)	January 12, 2026
Result of Remedial Mid-Term Exam of Previous Semester	January 31, 2026
Term work Submission (Current Semester)	March 16, 2026 to March 21, 2026
Remedial Exam (Current Semester)	March 09, 2026 to March 14, 2026
1 <sup>st</sup> Student Teacher Meeting	December 15, 2025 to December 20, 2025
2 <sup>nd</sup> Student Teacher Meeting	February 23, 2026 to February 28, 2026
1 <sup>st</sup> Parents Teacher meeting	December 22, 2025 to December 27, 2025
2 <sup>nd</sup> Parents Teacher meeting	March 02, 2026 to March 07, 2026
Last date for submission of marks of Continuous Evaluation/ Internal Evaluation	March 21, 2026
End of Semester	March 28, 2026
End Semester Examination (Practical)	March 30, 2026 to April 11, 2026
End Semester Examination (Theory)	April 13, 2026 to April 25, 2026
Supplementary Exam Previous Semester (Theory)	April 27, 2026 onwards
New Term (Odd) Commencement	2 <sup>nd</sup> Week on June, 2026

**Step to find External Theory/Practical exam schedule on website:**

- <https://paruluniversity.ac.in/>
- Click on Academics Tab
- Click on Exam Corner S Transcript/Document Request
- Click on Exam Schedule
- Click on Faculty of Engineering S Technology

## TIME TABLE

PARUL UNIVERSITY FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY INSTITUTE NAME: PARUL INSTITUTE OF TECHNOLOGY ACADEMIC YEAR: 2025-26 SEMESTER: 6TH PROGRAM NAME: B.TECH COMPUTER SCIENCE ENGINEERING					(W.E.F. - 24-11-2025)	 <b>Parul® University</b> <b>NAAC GRADE A++</b>			
ACADEMIC YEAR: 2025-26 LEVEL: UG DIVISION: 6A1_CSE_2025-26					YEAR: 3RD YEAR				
TIME 09:30 - 10:25 10:25 - 11:20 11:20 - 12:20 12:20 - 01:15 01:15 - 02:10 02:10 - 02:30 02:30 - 03:25 03:25 - 04:20									
MONDAY		TUESDAY		WEDNESDAY		THURSDAY			
LIBRARY / SELF STUDY		ES (AK) 358		LIBRARY / SELF STUDY		ML (MMP) 358			
LIBRARY / SELF STUDY		QR(HS) 358		LIBRARY / SELF STUDY		CD (ASG) 358			
LIBRARY / SELF STUDY		CD LAB:ASG:358	LIBRARY / SELF STUDY		RECESS		QR(HS) 358		
LIBRARY / SELF STUDY			LIBRARY / SELF STUDY		ML (MMP) 358				
LIBRARY / SELF STUDY		MSWD (CT13) 358	LIBRARY / SELF STUDY		MAD (CT14) 358		MSWD (CT13) 358		
LIBRARY / SELF STUDY			LIBRARY / SELF STUDY		MSWD (CT13) 358				
LUNCH BREAK									
LIBRARY / SELF STUDY		MSWD (CT13) 358	LIBRARY / SELF STUDY		ML LAB:KNT:358		MSWD LAB:CT13:358		
LIBRARY / SELF STUDY			LIBRARY / SELF STUDY						
SUBJECT_CODE	SUBJECT_NAME	SHORT_NAME	FACULTY_FULL_NAME	FACULTY_SHORT_NAME	EMAIL_ID	MIS_ID			
303105300	Project - I								
303105311	Quant, and Reasoning	QR	MS.HETAL SHAH	HS	hetal.shah21448@paruluniversity.ac.in	21448			
303105349	Compiler Design	CD	Dr. Anand Singh Gadwal	ASG	anand.gadwal36469@paruluniversity.ac.in	36469			
303105350	Compiler Design Laboratory	CD-L	Dr. Anand Singh Gadwal	ASG	anand.gadwal36469@paruluniversity.ac.in	36469			
303105385	MEA/QN Stack Web Development	MSWD	T13						
303105386	MEA/QN Stack Web Development Laboratory	MSWD-L	T13						
303193353	Employability Skills	ES	Ms. Anupreet Kaur	AK	anupreet.kaur41873@paruluniversity.ac.in	41873			
303105353	Machine Learning	ML	Mr. Meetkumar Manojkumar Patel	MMP	meetkumar.patel19440@paruluniversity.ac.in	19440			
303105354	Machine Learning Laboratory	ML-L	Ms. Khushboo Ninajkumar Trivedi	KNT	khushboo.trivedi21305@paruluniversity.ac.in	21305			
303105379	Mobile Application Development	MAD	CT14						
303105380	Mobile Application Development Laboratory	MAD	CT14						
CLASSROOM NO:	358						Mr Mohit Rathod		
LAB/ TUTORIAL LOCATION:	358						mohit.rathod20807@paruluniversity.ac.in		
Mr. Utpalkumar Bhupendrabhai Patel Mr. Meetkumar Manojkumar Patel Ms. Pedada Harika			Ms Sumitra Menaria Head of Department				 Dr. Swapnil M Parikh Principal		
Time Table Coordinator									

## LIST OF HOLIDAYS

Sr. No.	Name of Public Holiday	Date	Day
1	Christmas	December 25, 2025	Thursday
2	Makar Sakranti - Uttarayan	January 14, 2026	Wednesday
3	Vaasi Uttrayan	January 15, 2026	Thursday
4	Republic Day	January 26, 2026	Monday
5	Holi 2nd Day - Dhuleti	March 05, 2026	Thursday
6	Ramjan Eid (Eid-UL-Fitra)	March 20, 2026	Friday
7	Ram Navami	March 26, 2026	Thursday
8	Mahavir Jayanti	March 31, 2026	Tuesday
9	Babasahed Ambedkar Jayanti	April 14, 2026	Tuesday

### **WEEKLY / MID SEM EXAM SCHEDULE**

<b>Max Marks:</b>	60 Marks External Exam	
<b>External Exam:</b>		
<b>Max Marks:</b>	40 Marks Internal Exam	
<b>Internal Exam</b>		
<b>Particulars</b>	Dates of Examination	Viva Exam
<b>Mid Exam Dates</b>	February 09, 2026 to February 14, 2026	March 30, 2026 to April 11, 2026
<b>CDC'S Impact Training &amp; Test Date shall be informed later</b>		
<b>Weekly Exam Date</b>	As per Academic Calendar S Starts from December 27, 2025	
<b>End Semester Exam</b>	April 13, 2026 to April 25, 2026	

### **FACULTY REPRESENTATIVE DETAILS**

Sr. No	Name of Faculty	Mobile No	E-mail ID
1	Prof. Mohit Rathod	9978524578	mohitkumar.rathod20807@paruluniversity.ac.in

### **CONCERNED FACULTY LIST WITH CONTACT DETAILS**

Sr. No	Name of Faculty	Mobile No	E-mail id	Subject Code
1	Prof. Mohit Rathod	9978524578	mohitkumar.rathod20807@paruluni versity.ac.in	Director
2	Prof. Frenisha Degaswala	90990 79450	frenisha.digaswala22620@paruluniv ersity.ac.in	Deputy Director
3	Prof. Ayushi Desai	75671 54056	ayushi.desai26097@paruluniversity. ac.in	Deputy Director
4	Prof. Hetal Shah	96241 52545	hetal.shah21448@paruluniversity.ac. in	303105311
5	Dr. Anand Singh Gadwal	96241 52545	anand.gadwal36469@paruluniversit y.ac.in	303105349/50

6	Prof. Anupreet Kaur	91209 37470	anupreet.kaur41873@paruluniversity.ac.in	303193353
7	Prof. Meet Patel	95742 11800	meetkumar.patel19440@paruluniversity.ac.in	303105353/54
8				303105385/86
9				303105379/80

## CURRICULUM

CSE/CE/Int B.Tech							Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut		T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105 300	Project - 1	3	0	6	0	-	50	-	-	50	-	50	-	100
303105 311	Quant and Reasoning	3	3	0	0	20	-	20	60	-	40	-	-	100
303105 349	Compiler Design	3	3	0	0	20	-	20	60	-	40	-	-	100
303105 350	Compiler Design Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303105 385	MEA(R)N Stack Web Development	3	3	0	0	20	-	20	60	-	40	-	-	100
303105 386	MEA(R)N Stack Web Development Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303193 353	Employability Skills	1	-	-	1	-	-	100	-	-	40	-	100	
	PEC 01-LAB	1	-	-	-	-	-	-	-	-	-	-	-	
	PEC 01	3	-	-	-	-	-	-	-	-	-	-	-	
	PEC 02	3	-	-	-	-	-	-	-	-	-	-	-	
	PEC 02-LAB	1	-	-	-	-	-	-	-	-	-	-	-	
	Total	23	9	10	1									600

PEC 01							Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut		T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
3031053 07	Artificial Intelligence	3	3	0	0	20	-	20	60	-	40	-	-	100
3031053 53	Machine Learning	3	3	0	0	20	-	20	60	-	40	-	-	100
3031053 63	Cloud Computing	3	3	0	0	20	-	20	60	-	40	-	-	100

PEC 01-LAB							Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut		T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105 308	Artificial Intelligence Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303105 354	Machine Learning Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303105 364	Cloud Computing Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	

PEC 02							Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut		T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105 351	.NET Programming	3	3	0	0	20	-	20	60	-	40	-	-	100
303105 379	Mobile App Development	3	3	0	0	20	-	20	60	-	40	-	-	100
303105 387	Devops	3	3	0	0	20	-	20	60	-	40	-	-	100

PEC 02-LAB							Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut		T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105 352	.NET Programming Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303105 380	Mobile App Development Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	
303105 388	Devops Laboratory	1	0	2	0	-	20	-	-	30	-	25	50	

## SYLLABUS OF COURSES

**Course Name: Project - 1**

**Course Code: 303105300**

Teaching and Examination Scheme											
Teaching Scheme					Examination Scheme					Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks			
					T	CE	P	T	P		
0	0	6	-	3	-	-	50	-	50	100	

**SEE - Semester End Examination, T - Theory, P - Practical**

Course Content		W - Weightage (%), T - Teaching hours	
Sr.	Topics	W	T
1	Introductory Guideline:General instruction about project definition, different platform etc.	10	15
2	Analysis:Deep study about project title and available system and user requiremen	20	15
3	Design:Designing include all requirement gathered in analysis part	20	15
4	Implementation:Implement your design work	20	15
5	Testing:Different test case must implement for your project	15	15
6	Documentation:Project report	15	15
Total		100	90

### Course Outcome

After Learning the Course, the students shall be able to:

- Define characteristics of project.
- Manage project plan, monitor and controlling project schedule and budget, tracking project progress
- Deliver a seminar on the general area of work being undertaken and specific contributions to that field.
- Prepare a formal report describing the work undertaken and results obtained so far.
- Present the work in a forum involving poster presentations and demonstrations of operational hardware and software

**Course Name: Quant and Reasoning**

**Course Code: 303105311**

Teaching and Examination Scheme					Examination Scheme					Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks			
					T	CE	P	T	P		
3	0	0	0	3	20	20	-	60	-	100	

SEE - Semester End Examination, T - Theory, P - Practical

Course Content		W - Weightage (%) , T - Teaching hours	
Sr.	Topics	W	T
1	<b>UNIT-1</b> Number system , LCM & HCF simplifications and approximations	9	4
2	<b>UNIT-2</b> Averages , progressions,	9	4
3	<b>UNIT-3</b> Ratio and proportion,Problems on Ages, Percentages	12	5
4	<b>UNIT-4</b> Profit & loss, partnerships, S.I & C.I	12	5
5	<b>UNIT-5</b> Time & work , pipes and Cisterns, Time speed and distance , Problems on train crossings, Boats & streams ,	18	8
6	<b>UNIT-6</b> Permutations & combinations, probability	11	5
7	<b>UNIT-7</b> Directions, seating arrangements	4	2
8	<b>UNIT-8</b> Clocks, calenders	6	3
9	<b>UNIT-9</b> Cubes & Dice, syllogisms	9	4
10	<b>UNIT-10</b> Blood Relations	5	2
11	<b>UNIT-11</b> Series ,Analogy, odd man out, coding and Decoding	5	3
<b>Total</b>			<b>100</b> <b>45</b>

Reference Books	
1.	<b>Quantitative Aptitude for CAT by Arun Sharma (TextBook)</b>
2.	<b>Logical reasoning for CAT by Arun Sharma</b>
3.	<b>Quantitative Aptitude by Abhijit Guha</b>

<b>Course Outcome</b>
<b>After Learning the Course, the students shall be able to:</b>
1. Apply Logic & critical thinking skills to analyze information and draw logical conclusions.
2. Solve complex problems by breaking them down into manageable parts & develop effective solutions.
3. Demonstrate the ability to approach problem-solving from various perspectives.

**Course Name:** Compiler Design

**Course Code:** 303105349

<b>Teaching and Examination Scheme</b>						<b>Examination Scheme</b>				
<b>Teaching Scheme</b>					<b>Examination Scheme</b>				<b>Total</b>	
<b>Lecture Hrs/Week</b>	<b>Tutorial Hrs/Week</b>	<b>Lab Hrs/Week</b>	<b>Seminar Hrs/Week</b>	<b>Credit</b>	<b>Internal Marks</b>			<b>External Marks</b>		
					<b>T</b>	<b>CE</b>	<b>P</b>	<b>T</b>	<b>P</b>	
3	0	0	0	3	20	20	-	60	-	100

**SEE** - Semester End Examination, **T** - Theory, **P** - Practical

<b>Course Content</b>		<b>W - Weightage (%) , T - Teaching hours</b>	
<b>Sr.</b>	<b>Topics</b>	<b>W</b>	<b>T</b>
1	<b>Overview of compilation :</b> The structure of a compiler and applications of compiler technology; Lexical analysis - The role of a lexical analyzer, specification of tokens, recognition of tokens, hand-written lexical analyzers, LEX, examples of LEX programs.	10	8
2	<b>Introduction to syntax analysis</b> Role of a parser, use of context-free grammars (CFG) in the specification of the syntax of programming languages, techniques for writing grammars for programming languages (removal left recursion, etc.), non-context-free constructs in programming languages, parse trees and ambiguity, examples of programming language grammars.	10	7
3	<b>Top-down parsing</b> FIRST & FOLLOW sets, LL(1) conditions, predictive parsing, recursive descent parsing, error recovery. LR-parsing - Handle pruning, shift-reduce parsing, viable prefixes, valid items, LR(0) automaton, LR-parsing algorithm, SLR(1), LR(1), and LALR(1) parsing. YACC, error recovery with YACC and examples of YACC specifications.	20	7
4	<b>Syntax-directed definitions (attribute grammars)</b> Synthesized and inherited attributes, examples of SDDs, evaluation orders for attributes of an SDD, dependency graphs. S-attributed and L-attributed SDDs and their implementation using LR-parsers and recursive-descent parsers respectively.	15	6
5	<b>Semantic analysis</b> Symbol tables and their data structures. Representation of "scope". Semantic analysis of expressions, assignment, and control-flow statements, declarations of variables and functions, function calls, etc., using S- and L-attributed SDDs (treatment of arrays and structures included). Semantic error recovery.	15	6

<b>6</b>	<b>Intermediate code generation</b> Different intermediate representations –quadruples, triples, trees, flow graphs, SSA forms, and their uses. Translation of expressions (including array references with subscripts) and assignment statements. Translation of control-flow statements – if-then-else, while-do, and switch. Short-circuit code and control-flow translation of Boolean expressions. Back patching. Examples to illustrate intermediate code generation for all constructs.	<b>15</b>	<b>6</b>
<b>7</b>	<b>Run-time environments</b> Stack allocation of space and activation records. Access to non-local data on the stack in the case of procedures with and without nesting of procedures.	<b>10</b>	<b>3</b>
<b>8</b>	<b>Introduction to machine code generation and optimization</b> Simple machine code generation, examples of machine-independent code optimizations.	<b>5</b>	<b>2</b>
<b>Total</b>		<b>100</b>	<b>45</b>

<b>Reference Books</b>	
1.	<b>Compilers: Principles, Techniques and Tools</b> By Aho, Lam, Sethi, and Ullman   Pearson   Second, Pub. Year 2014

<b>Course Outcome</b>	
<b>After Learning the Course, the students shall be able to:</b>	
1. Understand the basic concepts; ability to apply automata theory and knowledge on formal languages. 2. Ability to identify and select suitable parsing strategies for a compiler for various cases. Knowledge in alternative methods (top- down or bottom-up, etc.). 3. Understand backend of compiler: intermediate code, Code optimization Techniques and Error Recovery mechanisms 4. Understand issues of run time environments and scheduling for instruction level parallelism.	

**Course Name:** Compiler Design Laboratory

**Course Code:** 303105350

<b>Teaching and Examination Scheme</b>										
<b>Teaching Scheme</b>					<b>Examination Scheme</b>				<b>Total</b>	
<b>Lecture Hrs/Week</b>	<b>Tutorial Hrs/Week</b>	<b>Lab Hrs/Week</b>	<b>Seminar Hrs/Week</b>	<b>Credit</b>	<b>Internal Marks</b>		<b>External Marks</b>			
0	0	2	0	1	-	-	20	-	30	50

SEE - Semester End Examination, T - Theory, P - Practical

<b>List of Practical</b>	
1.	<b>Program to implement Lexical Analyzer.</b>
2.	<b>Program to count digits, vowels and symbols in C.</b>
3.	<b>Program to check validation of User Name and Password in C.</b>
4.	<b>Program to implement Predictive Parsing LL (1) in C.</b>
5.	<b>Program to implement Recursive Descent Parsing in C.</b>
6.	<b>Program to implement Operator Precedence Parsing in C.</b>

<b>7.</b>	<b>Program to implement LALR Parsing in C.</b>
<b>8.</b>	<b>To Study about Lexical Analyzer Generator (LEX) and Flex (Fast LexicalAnalyzer)</b>
<b>9.</b>	<b>Implement following programs using Lex.</b> a. Create a Lexer to take input from text file and count no of characters, no. of lines & no. of words. b. Write a Lex program to count number of vowels and consonants in a given input string.
<b>10.</b>	<b>Implement following programs using Lex.</b> a. Write a Lex program to print out all numbers from the given file. b. Write a Lex program to printout all HTML tags in file. c. Write a Lex program which adds line numbers to the given file and display the same onto the standard output.

<b>Course Outcome</b>
<b>After Learning the Course the students shall be able to:</b>
After learning the course, the students should be able to 1. Understand the basic concepts; ability to apply automata theory and knowledge on formal languages. 2. Ability to identify and select suitable parsing strategies for a compiler for various cases. Knowledge in alternative methods (top-down or bottom-up, etc.). 3. Understand backend of the compiler: intermediate code, Code Optimization Techniques and Error Recovery mechanisms 4. Understand issues of run time environments and scheduling for instruction level parallelism

**Course Name:** MEA(R)N Stack Web Development

**Course Code:** 303105385

<b>Teaching and Examination Scheme</b>											
<b>Teaching Scheme</b>					<b>Examination Scheme</b>					<b>Total</b>	
<b>Lecture Hrs/Week</b>	<b>Tutorial Hrs/Week</b>	<b>Lab Hrs/Week</b>	<b>Seminar Hrs/Week</b>	<b>Credit</b>	<b>Internal Marks</b>			<b>External Marks</b>			
3	0	0	-	3	T	CE	P	T	P		
					20	20	-	60	-	100	

**SEE** - Semester End Examination, **T** - Theory, **P** - Practical

<b>Course Content</b>		<b>W</b> - Weightage (%) , <b>T</b> - Teaching hours
<b>Sr.</b>		
<b>Topics</b>		<b>W</b> <b>T</b>
<b>1</b>	<b>Introduction to Web Development and the MEAN Stack:</b> Overview of web development, Introduction to the MEAN stack, Setting up the development environment	<b>4</b> <b>2</b>
<b>2</b>	<b>MongoDB:</b> Introduction to NoSQL databases, Installation and configuration of MongoDB, CRUD operations in MongoDB, Indexing and querying in MongoDB, Schema design and data modeling	<b>20</b> <b>10</b>
<b>3</b>	<b>Node.JS &amp; Express JS:</b> Introduction to Node.js and Express.js, Introduction to Node.js and Express.js, Middleware and routing, Authentication and security with Passport.js, Error handling and logging	<b>20</b> <b>10</b>

<b>4</b>	<b>Angular:</b> Introduction to Angular, Setting up an Angular application, Components, modules, and services, Data binding and templates, Forms and validation, Routing and navigation, HTTP and observables, Building a complete frontend for the MEAN stack application	<b>30</b>	<b>13</b>
<b>5</b>	<b>Integration:</b> Integrating the Angular frontend with the Express.js API, Authentication and user management integration , Handling real-time data with WebSockets, Error handling and testing	<b>10</b>	<b>3</b>
<b>6</b>	<b>Deployment and Best Practices:</b> Preparing the application for deployment, Hosting and server setup options, Security best practices, Performance optimization and testing, Version control and continuous integration.	<b>6</b>	<b>3</b>
<b>7</b>	<b>Final Project:</b> Project	<b>10</b>	<b>4</b>
		<b>Total</b>	<b>100</b> <b>45</b>

<b>Reference Books</b>	
1.	"MEAN Web Development" by Amos Q. Haviv (Publisher: Packt Publishing) (TextBook)
2.	"Learning Node.js: A Hands-On Guide to Building Web Applications in JavaScript" by Marc Wandschneider (Publisher: Addison-Wesley Professional)
3.	"AngularJS: Up and Running: Enhanced Productivity with Structured Web Apps" by Shyam Seshadri and Brad Green (Publisher: O'Reilly Media)
4.	"MongoDB: The Definitive Guide: Powerful and Scalable Data Storage" by Shannon Bradshaw, Kristina Chodorow, and Eoin Brazil (Publisher: O'Reilly Media)

<b>Course Outcome</b>	
<b>After Learning the Course the students shall be able to:</b>	
1. Have a comprehensive understanding of the technologies and frameworks that make up the MEAN stack, including MongoDB, Express.js, AngularJS, and Node.js. 2. Build full-stack web applications. 3. Understand web development best practices: 4. Work on real-world projects using the MEAN stack. This could include developing a portfolio of projects or contributing to open-source projects.	

**Course Name:** MEA(R)N Stack Web Development Laboratory  
**Course Code:** 303105386

Teaching and Examination Scheme												
Teaching Scheme					Examination Scheme						Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks				
					T	CE	P	T	P			
0	0	2	-	1	-	-	20	-	30	50		

SEE - Semester End Examination, T - Theory, P - Practical

List of Practical	
1.	1. Introduction to MEAN stack 2. Setting up the development environment 3. Overview of MongoDB, Express.js, Angular, and Node.js
2.	1. Creating and configuring MongoDB 2. Creating and configuring Express.js 3. Building RESTful APIs with Express.js
3.	1. Introduction to Angular 2. Building basic UI components with Angular 3. Creating a Single-Page Application (SPA) with Angular
4.	1. Introduction to Node.js 2. Creating and configuring Node.js 3. Building server-side applications with Node.js
5.	1. Integrating all components to build a full-stack application 2. Testing and debugging the application 3. Deploying the application on a cloud platform
Course Outcome	
After Learning the Course the students shall be able to:	
1. Have a comprehensive understanding of the technologies and frameworks that make up the MEAN stack, including MongoDB, Express.js, AngularJS, and Node.js. 2. Build full-stack web applications. 3. Understand web development best practices. 4. Work on real-world projects using the MEAN stack. This could include developing a portfolio of projects or contributing to open source projects.	

**Course Name:** Employability Skills  
**Course Code:** 303193353

Teaching and Examination Scheme													
Teaching Scheme						Examination Scheme						Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks					
					T	CE	P	T	P				
-	1	-	-	1	-	100	-	-	-	100			

SEE - Semester End Examination, T - Theory, P - Practical

Course Content		W - Weightage (%) , T - Teaching hours	
Sr.	Topics	W	T
1	<b>IELTS Mock Test</b> To develop students English Learning and improve their employment prospects. To create opportunity for students to study around the globe & give them Practice on : Listening Speaking Reading Writing	25	5
2	<b>Resume Building</b> Cover letter & Resume Writing Students will create a functional resume along with cover letter that they will be able to use when applying for a job, college or a scholarship.	25	2
3	<b>Advanced Group Discussion: Mock Round</b> To provide students with an avenue to train themselves in various interpersonal skills. To prepare students for the Group Discussion after the written test for employment or for admission to educational institutes. To generate new ideas or new approaches for solving a problem. To reach a solution on an issue of concern.	25	4
4	<b>Personal Interview: Mock Round</b> Preparing For The Interview Review Question Employer's Expectation Case Interview	25	4
		<b>Total</b>	<b>100</b> <b>15</b>

Reference Books	
1.	<b>Business Correspondence and Report Writing</b> By SHARMA, R. AND MOHAN, K.
2.	<b>Communication Skills and Soft Skills</b> By Suresh Kumar   Pearson Publication, 2010

**Course Name:** Machine Learning

**Course Code:** 303105353

Teaching and Examination Scheme											
Teaching Scheme					Examination Scheme					Total	
Lecture Hrs/Wee k	Tutorial Hrs/Wee k	Lab Hrs/Wee k	Seminar Hrs/Wee k	Credit	Internal Marks			External Marks			
					T	CE	P	T	P		
3	0	0	0	3	20	20	-	60	-	100	

SEE - Semester End Examination, T - Theory, P - Practical

Course Content		W - Weightage (%) , T - Teaching hours	
Sr.	Topics	W	T
1	<b>Introduction</b> Introduction to Machine Learning – Learning Paradigms – PAC learning – Basics of Probability – Version Spaces <b>Machine Learning in Practice</b> Data collection – Preprocessing (Missing values, Normalization, Adopting to chosen algorithm etc.,) – Outlier Analysis (Z-Score) - Model selection & evaluation – Optimization of tuning parameters – Setting the environment – Visualization of results.	20	9
2	<b>Supervised Learning – I</b> Linear and Non-Linear examples – Multi-Class & Multi-Label classification – Linear Regression – Multilinear Regression – Naïve Bayes Classifier – Decision Trees – ID3 – CART – Error bounds	20	8
3	<b>Supervised Learning - II</b> K-NN classifier – Logistic regression – Perceptrons – Single layer & Multi-layer – Support Vector Machines – Linear & Non-linear, Semi Supervised Learning	20	9
4	<b>Unsupervised Learning</b> Clustering basics (Partitioned, Hierarchical and Density based) - K-Means clustering – K- Mode clustering – Self organizing maps – Expectation maximization – Principal Component Analysis, Reinforcement Learning	20	8
5	<b>Evaluation Metrics</b> ROC Curves, Evaluation Metrics, Significance tests – Error correction in Perceptrons.	10	6
6	<b>Ensemble Learning</b> Bagging and Boosting, Random forests, Adaboost, XG boost inclusive.	10	5
<b>Total</b>		<b>100</b>	<b>45</b>

Reference Books	
1.	<b>Real-World Machine Learning (TextBook)</b> By Henrik Brink, Joseph Richards, Mark Fetherolf   DreamTech
2.	<b>Christopher M. Bishop, –Pattern Recognition and Machine Learning  , Springer 2011 Edition.</b>
3.	<b>Elements of Statistical Learning</b> By Hastie, Tibshirani, and Friedman   Soft Computing for Problem Solving, AISC , Springer
4.	<b>Data Mining: Tools and Techniques</b> By Jiawei Han and Micheline Kamber
5.	<b>Data Mining: A practical Machine Learning Tools and techniques</b> By I H Witten, Eibe Frank, Mark A Hall   Elsevier

Course Outcome	
<b>After Learning the Course, the students shall be able to:</b>	
1. Discover the basic issues and challenges in Machine Learning including data and model selection and its complexity 2 Understand the underlying mathematical relations within and across Machine Learning algorithms. 3 Assess the different Supervised Learning algorithms using a suitable Dataset. 4 Evaluate the different unsupervised Learning algorithms using a suitable Dataset. 5 Design and implement different machine learning algorithms in a range of real-world applications.	

**Course Name:** Machine Learning Laboratory

**Course Code:** 303105354

Teaching and Examination Scheme					Examination Scheme					Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks			
					T	CE	P	T	P		
0	0	2	0	1	-	-	20	-	30	50	

SEE - Semester End Examination, T - Theory, P - Practical

#### List of Practical

1.	Dealing with Data using Numpy, Pandas, Statistics library
2.	Data Analysis & Visualization on Diwali Sales Dataset.
3.	Implement linear regression and logistic regression.
4.	Implement the naïve Bayesian classifier for a sample training data set stored as a .CSV file. Compute the accuracy of the classifier, considering a few test data sets.
5.	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.
6.	Decision tree-based ID3 algorithm.
7.	Write a program to implement the K-Nearest Neighbor algorithm to classify the iris data set
8.	Apply EM algorithm to cluster a set of data stored in a .CSV file. Use the same data set for clustering using k-Means algorithm.
9.	Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using standard Heart Disease Data Set.
10.	Compare the various supervised learning algorithm by using appropriate dataset. (Linear Regression, Support Vector Machine, Decision Tree)
11.	Compare the various Unsupervised learning algorithm by using the appropriate datasets. (K Means Clustering, K Mode)
12.	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets

Course Outcome	
<b>After Learning the Course the students shall be able to:</b>	
<ul style="list-style-type: none"><li>1. Discover the basic issues and challenges in Machine Learning including data and model selection and its complexity</li><li>2. Understand the underlying mathematical relations within and across Machine Learning algorithms</li><li>3. Assess the different Supervised Learning algorithms using a suitable Dataset.</li><li>4. Evaluate the different unsupervised Learning algorithms using a suitable Dataset.</li><li>5. Design and implement different machine learning algorithms in a range of real-world applications.</li></ul>	

**Course Name:** Mobile App Development

Teaching and Examination Scheme						Examination Scheme					Total
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks			External Marks			
					T	CE	P	T	P		
3	0	0	0	3	20	20	-	60	-	100	

SEE - Semester End Examination, T - Theory, P - Practical

Course Content		W - Weightage (%), T - Teaching hours	
Sr.	Topics	W	T
1	<b>Android Operating System and Development Environment :</b> Introduction, Android Architecture, Versions, Features, OHA, Dalvik VM, Android SDK, Android Development Tools, Android Virtual Devices, Development Environment, Directory Structure of Android Application, Android Manifest file	10	3
2	<b>Android Components and Resource handling :</b> Components: Context, Activity, Intent, Service, Broadcast Receiver, Resources:String, Color, Drawable, Styles, Theme, Localization:Prepare Application for Localization	20	7
3	<b>Android User Interface Elements and Layouts:</b> Introduction of Material Design, UI and UX <b>Layouts:</b> Linear Layout, Absolute Layout, Frame Layout, Relative Layout, Constraint Layout, Dynamic Implementation of Layout. UI widgets with properties, events and methods, Dialog boxes, Menus: Option and Context	20	8
4	<b>Working with Views and Fragment:</b> GridView, WebView, ScrollView, ListView, RecyclerView, CardView Fragment: Introduction, life Cycle, Implementation	10	5
5	<b>Data Storage Techniques :</b> Shared Preferences, Files and Directories, SQLite Database Connectivity andOperations, Content Providers: Basics, Content URI, Content Resolver, Built-in content providers.	20	9
6	<b>Web Application Integration Techniques:</b> Introduction of AsyncTask, Communication with Web API, Introduction to JSON data, JSON Parsing,Implementation of Third-Party Libraryto Fetch Network Data, Notifications, Telephony API, Google API	10	8
7	<b>Polish and Publish Application:</b> Different Ways to Monetize, Versioning, Signing, Packaging and Beta Test of Mobile Application, Distributing Application on Mobile Market Place	10	5
		Total	100 45

Reference Books	
1.	<b>Android Wireless Application Development By Lauren Darcey and Shane Conder   Pearson Education,2011   second edition (TextBook)</b>
2.	<b>Head First Android Development: A Brain Friendly Guide, O'Reilly, David Griffiths and Dawn Griffiths</b>

3.	<b>Professional Android 4 Application Development, John Wiley &amp; Sons Author(s): Reto Meier</b>
4.	<b>Beginning Android, Apress Author(s): Mark L Murphy</b>

Course Outcome	
<b>After Learning the Course the students shall be able to:</b>	
1. Acquire an insight into concepts of mobile application development terminologies, environment and architecture 2. Design mobile application using various UI components and layouts. 3. Develop robust mobile applications with database interaction and webservice integration 4. Deploy application on mobile device	

**Course Name:** Mobile App Development Laboratory

**Course Code:** 303105380

Teaching and Examination Scheme										
Teaching Scheme					Examination Scheme				Total	
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	Internal Marks		External Marks			
					T	CE	P	T	P	
0	0	2	0	1	-	-	20	-	30	50

SEE - Semester End Examination, T - Theory, P - Practical

List of Practical	
1.	Create a "Hello World" application: Display "Hello World" at the center of the screen, both on the Android emulator and an actual Android device.
2.	Build an app to showcase Android lifecycle phases: Develop an app that demonstrates various Android lifecycle stages (onCreate, onStart, onResume, etc.).
3.	Create an app with two activities: The first activity should contain an EditText and a "Send" button. When the button is clicked, use an explicit intent to send the text from EditText to a second activity and display it in a TextView.
4.	Create an app with explicit intent: The first activity should have an EditText and a "Send" button. On button click, use an implicit intent with the "SEND" action, allowing the user to select an app from an app chooser to handle the intent and display the text.
5.	Build a basic calculator app: Create an app that performs basic arithmetic operations (addition, subtraction, multiplication, and division) on numbers.
6.	Create a Spinner-based app: Develop an app with a spinner populated from the res/values/strings.xml resource. When the spinner value changes, the corresponding image from the res/drawable directory should be displayed.
7.	Create a discount calculator app: Use a RadioGroup with three radio buttons for 10%, 15%, and 20% discounts on a shopping bill. The user can enter the bill amount in an EditText, and the selected discount will be calculated and displayed in a TextView.
8.	Create an app with a course selection RadioButton group: Display a list of college courses with a RadioButtongroup. When a course is selected, the corresponding TIC (Total Instructional Credit) should be shown in a TextView.
9.	Create a shopping list app using checkboxes: Build an app with checkboxes for shopping list items. As items are checked off, the selected items should be displayed in a TextView.

<b>10.</b>	Create a login and registration app: Develop a login application that verifies the username and password. Include a registration page for new users. Upon successful login, show a "Welcome User" pop-up message
<b>11.</b>	Create a login app with navigation to another activity: The login screen should verify the username and password. After successful login, navigate to a new activity that displays a "Welcome User" message in a TextView and a "Logout" button. On clicking "Logout," show a confirmation dialog with "OK" and "Cancel" buttons. "OK" should return to the login screen, while "Cancel" should keep the user on the current activity.
<b>12.</b>	Create an app with a menu: Implement a menu with five options. The selected option should be displayed in a TextView.
<b>13.</b>	Build an app using LinearLayout: Create a simple app that uses LinearLayout. It should take the contents of a predefined TextView, convert it to uppercase on button click, and display it in an EditText. Additionally, create an app that responds to key events in the EditText without needing a button press.
<b>14.</b>	Create an app with TableLayout and custom styles: Use a TableLayout with a TextView, EditText, and buttons. Also, create a custom styles.xml in the res/values directory to style the TextView.
<b>15.</b>	Create an app with SQLite database operations: Build an app that allows the user to perform CRUD operations (Create, Read, Update, Delete) with an SQLite database.
<b>16.</b>	Create an app with three vertically aligned buttons: Develop an app with three buttons arranged vertically. When any button is selected, the screen color should change accordingly.

#### **Course Outcome**

##### **After Learning the Course the students shall be able to:**

1. Acquire an insight into concepts of mobile application development terminologies, environment and architecture
2. Design mobile application using various UI components and layouts.
3. Develop robust mobile applications with database interaction and webservice integration
4. Deploy application on mobile device

### **PRESCRIBED TEXTBOOK LIST**

<b>Sr. No</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Text Books Name</b>
1.	Quant and Reasoning	303105311	Quantitive and Reasoning by Dr R. S. Aggarwal and Made Easy publication
2.	Compiler Design	303105349	Compiler, principles and computing by Alfred. V. Aho, Monica S. Lam
3.	Mobile App Development	303105379	Mobile computing, Ashok Taludker and Hasan Ahmed and Roopa R Yavagal
4	MEA(R)N Stack Web Development	303105385	Developing Web Application by Ralph Moseley, M.T.Savalia
5	Machine Learning	303105353	Machine learning in Data Science using Python, Dr. R. Nageshwara Rao

## **COURSE LECTURE/LABORATORY/TUTORIAL PLANNING**

<b>PARUL INSTITUTE OF TECHNOLOGY</b> <b>At &amp; PO Limda, Ta Waghodia, Dt. Vadodara</b> <b>Academic Year: 2025-2026</b> <b>Name of Teacher: Prof. Hetal Shah</b> <b>Subject: Quant and Reasoning (303105311)</b>
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<b>Lesson Plan No</b>	<b>Lesson Plan Title</b>	<b>Lesson Plan Description</b>	<b>Lesson Plan Date</b>
1	UNIT 1	Number system	25/11/2025
2	UNIT 1	Fractions	27/11/2025
3	UNIT 1	Simplification	28/11/2025
4	UNIT 1	Approximation	02/12/2025
5	UNIT 2	Average	04/12/2025
6	UNIT 2	Average	05/12/2025
7	UNIT 2	Progression	09/12/2025
8	UNIT 2	Progression	11/12/2025
9	UNIT 3	Directions	12/12/2025
10	UNIT 3	Seating arrangements	16/12/2025
11	UNIT 4	Permutations	18/12/2025
13	UNIT 4	Combinations	19/12/2025
14	UNIT 4	Permutations & combinations	23/12/2025
15	UNIT 4	Probability	26/12/2025
16	UNIT 4	Probability	30/12/2025
17	UNIT 5	Ratio	01/01/2026
18	UNIT 5	Proportion	02/01/2026
19	UNIT 5	Problems on ages and Percentages	06/01/2026
20	UNIT 5	Percentages	08/01/2026
21	UNIT 5	Percentages	09/01/2026
22	UNIT 6	Time & Work	13/01/2026
23	UNIT 6	Time & Work	16/01/2026
24	UNIT 6	Pipes and Cisterns	16/01/2026
25	UNIT 6	Time , speed and distance	20/01/2026
26	UNIT 6	Time , speed and distance	22/01/2026

27	UNIT 6	Problems on train crossings	23/01/2026
28	UNIT 6	Boats & streams	27/01/2026
29	UNIT 6	Boats & streams	29/01/2026
30	UNIT 7	Boats & streams	30/01/2026
31	UNIT 7	Profit & Loss	03/02/2026
32	UNIT 7	Partnerships	05/02/2026
33	UNIT 7	S.I & C.I	06/02/2026
34	UNIT 7	S.I & C.I	17/02/2026
35	UNIT 8	Cubes & Dice	19/02/2026
36	UNIT 8	Cubes & Dice	20/02/2026
37	UNIT 8	Syllogisms	24/02/2026
38	UNIT 8	Revision Unit-8	26/02/2026
39	UNIT 9	Clocks	03/03/2026
40	UNIT 9	Calenders	06/03/2026
41	UNIT 10	Blood Relations	09/03/2026
42	UNIT 11	Series	12/03/2026
43	UNIT 11	Coding and Decoding	16/03/2026
44	UNIT 11	Revision of Unit 11	17/03/2026
45	REVISION	Revision	20/03/2026
46	REVISION	Revision	24/03/2026
47	REVISION	Revision	27/03/2026

<b>PARUL INSTITUTE OF TECHNOLOGY</b>			
At & PO Limda, Ta Waghodia, Dt. Vadodara			
Academic Year: 2025-2026			
Name of Teacher: Dr. Anand Singh Gadwal			
Subject: Compiler Design (303105349)			
Lesson Plan No	Lesson Plan Title	Lesson Plan Description	Lesson Plan Date
1	Unit 1	Introduction to compilers, Structure of a compiler	27/11/25
2	Unit 1	Structure of a compiler, and its applications/	28/11/25
3	Unit 1	Role of a lexical analyzer And Specification of tokens/	29/11/25
4	Unit 1	Techniques for token recognition and examples/	01/12/2025
5	Unit 1	Introduction to LEX and handwritten lexical analyzers/	05/12/2025
6	Unit 1	Hands/on: Writing and testing LEX programs and Examples of LEX Programs /	05/12/2025
7	Unit 2	Role of a Parser and Introduction to CFG	05/12/2025
8	Unit 2	Use of context/free grammars (CFG) in the specification of the syntax of programming languages,	12/12/2025
9	Unit 2	Writing Grammars for Programming Languages	13/12/2025
10	Unit 2	Non/context/free constructs in programming languages	15/12/2025
11	Unit 2	Parse trees and ambiguity/	19/12/2025
13	Unit 2	Examples of programming language grammars/	22/12/2025
14	Unit 3	Introduction to Top/Down Parsing	26/12/2025
15	Unit 3	FIRST and FOLLOW Sets	27/12/2025
16	Unit 3	LL(1) or predictive parsing	29/12/2025
17	Unit 3	Recursive descent parsing and Error Recovery in Top/Down Parsing	02/01/2026
18	Unit 3	Introduction to LR parsing and its types	05/01/2026
19	Unit 3	Shift/reduce parsing and handle pruning ,Viable prefixes and valid items/	09/01/2026
20	Unit 3	LR(0) Parser	10/01/2026

<b>21</b>	<b>Unit 3</b>	<b>SLR Parser</b>	<b>12/01/2026</b>
<b>22</b>	<b>Unit 3</b>	<b>LR(1) or CLR Parser</b>	<b>16/01/2026</b>
<b>23</b>	<b>Unit 3</b>	<b>LALR Parser</b>	<b>19/01/2026</b>
<b>24</b>	<b>Unit 3</b>	<b>YACC (Yet Another Compiler Compiler)</b>	<b>19/01/2026</b>
<b>25</b>	<b>Unit 3</b>	<b>Error recovery with YACC and examples of YACC specifications/</b>	<b>23/01/2026</b>
<b>26</b>	<b>Unit 4</b>	<b>Synthesized and inherited attributes in SDDs/</b>	<b>24/01/2026</b>
<b>27</b>	<b>Unit 4</b>	<b>Evaluation orders and dependency graphs/</b>	<b>25/01/2026</b>
<b>28</b>	<b>Unit 4</b>	<b>S/attributed and L/attributed SDDs and their implementation using LR/parsers</b>	<b>30/01/2026</b>
<b>29</b>	<b>Unit 4</b>	<b>L/attributed definitions and their implementation/</b>	<b>31/01/2026</b>
<b>30</b>	<b>Unit 5</b>	<b>Introduction to Semantic Analysis and Symbol Tables</b>	<b>02/02/2026</b>
<b>31</b>	<b>Unit 5</b>	<b>Representation of Scope</b>	<b>06/02/2026</b>
<b>32</b>	<b>Unit 5</b>	<b>Semantic analysis of expressions, assignment, and control/flow statements, declarations of variables and functions, function calls/</b>	<b>06/02/2026</b>
<b>33</b>	<b>Unit 5</b>	<b>Semantic analysis of expressions, assignment, and control/flow statements, declarations of variables and functions, function calls/</b>	<b>16/02/2026</b>
<b>34</b>	<b>Unit 5</b>	<b>S/Attributed and L/Attributed SDDs: Application of Syntax/Directed Definitions (SDDs) in semantic analysis, with treatment of arrays and structures/</b>	<b>20/02/2026</b>
<b>35</b>	<b>Unit 5</b>	<b>Semantic error recovery/</b>	<b>20/02/2026</b>
<b>36</b>	<b>Unit 6</b>	<b>Intermediate representations: quadruples, triples, trees/</b>	<b>23/02/2026</b>
<b>37</b>	<b>Unit 6</b>	<b>Translation of expressions and assignment statements</b>	<b>27/02/2026</b>
<b>38</b>	<b>Unit 6</b>	<b>Control/flow translation for if/else, while/do, and switch/</b>	<b>28/02/2026</b>
<b>39</b>	<b>Unit 6</b>	<b>Short/circuit code and control/flow translation of Boolean expressions</b>	<b>02/03/2026</b>
<b>40</b>	<b>Unit 6</b>	<b>Back patching and examples of code</b>	<b>06/03/2026</b>

		<b>generation/</b>	
<b>41</b>	<b>Unit 7</b>	<b>Run/time environmentsStack allocation of space and activation records/</b>	<b>09/03/2026</b>
<b>42</b>	<b>Unit 7</b>	<b>Access to non/local data on the stack in the case of procedures with and without nesting of procedures</b>	<b>13/03/2026</b>
<b>43</b>	<b>Unit 8</b>	<b>Introduction to Machine Code Generation,Simple machine code generation</b>	<b>14/03/2026</b>
<b>44</b>	<b>Unit 8</b>	<b>examples of machine/independent code optimizations/</b>	<b>23/03/2026</b>

<b>PARUL INSTITUTE OF TECHNOLOGY</b> At & PO Limda, Ta Waghodia, Dt. Vadodara Academic Year: 2025-2026 Name of Teacher: Dr. Anand Singh Gadwal Subject: Compiler Design Laboratory ( <b>303105350</b> )			
<b>Lesson Plan No</b>	<b>Lesson Plan Title</b>	<b>Lesson Plan Description</b>	<b>Lesson Plan Date</b>
1	Unit 1	Program to implement Lexical Analyzer.	25/11/2025
2	Unit 1	Program to implement Lexical Analyzer.	02/12/2025
3	Unit 1	Program to count digits, vowels and symbols in C.	09/12/2025
4	Unit 2	Program to check validation of User Name and Password in C	16/12/2025
5	Unit 3	Program to implement Predictive Parsing LL (1) in C	23/12/2025
6	Unit 3	Program to implement Predictive Parsing LL (1) in C	30/12/2025
7	Unit 3	Program to implement Recursive Descent Parsing in C.	06/01/2026
8	Unit 3	Program to implement Operator Precedence Parsing in C.	13/01/2026
9	Unit 3	Program to implement LALR Parsing in C	20/01/2026
10	Unit 4	To Study about Lexical Analyzer Generator (LEX) and Flex (Fast LexicalAnalyzer)	27/01/2026
11	Unit 4	To Study about Lexical Analyzer Generator (LEX) and Flex (Fast LexicalAnalyzer)	17/02/2026
13	Unit 6	Implement following programs using Lex. a. Create a Lexer to take input from text file and count no of characters, no. of lines & no. of words. b. Write a Lex program to count number of vowels and consonants in a given input string.	24/02/2026
14	Unit 6	Implement following programs using Lex. a. Create a Lexer to take input from text file and count no of characters, no. of lines & no. of words.	03/03/2026

		b. Write a Lex program to count number of vowels and consonants in a given input string.	
15	Unit 6	<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>	03/03/2026
16	Unit 6	<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>	10/03/2026

<b>PARUL INSTITUTE OF TECHNOLOGY</b> At & PO Limda, Ta Waghodia, Dt. Vadodara Academic Year: 2025-2026 Name of Teacher: Ms. Anupreet Kaur Subject: Employability Skills (303193353)			
<b>Lesson Plan No</b>	<b>Lesson Plan Title</b>	<b>Lesson Plan Description</b>	<b>Lesson Plan Date</b>
1	UNIT 1	IELTS-Listening	25/11/2025
2	UNIT 1	IELTS-Speaking	2/12/2025
3	UNIT 1	IELTS-Reading	9/12/2025
4	UNIT 1	IELTS-Writing	16/12/2025
5	UNIT 1	IELTS Practice	23/12/2025
6	UNIT 2	Resume Writing Theory	30/12/2025
7	UNIT 2	Test and Resume Preparation	6/1/2026
8	UNIT 3	Advance Group Discussion Theory	13/1/2026
9	UNIT 3	Advance Group Discussion Test and Mock GD	20/01/2026
10	UNIT 3	Mock GD	27/1/2026
11	UNIT 3	Mock GD	3/2/2026
13	UNIT 4	Personal Interview Theory	17/2/2026
14	UNIT 4	Personal Interview Test and Mock PI	24/2/2026
15	UNIT 4	Mock PI	3/3/2026
16	UNIT 4	Mock PI	10/3/2026

<b>PARUL INSTITUTE OF TECHNOLOGY</b>			
At & PO Limda, Ta Waghodia, Dt. Vadodara			
Academic Year: 2025-2026			
Name of Teacher: Prof. Meet Patel			
Subject: Machine Learning (303105353)			
<b>Lesson Plan No</b>	<b>Lesson Plan Title</b>	<b>Lesson Plan Description</b>	<b>Lesson Plan Date</b>
1	UNIT 1	Introduction to Machine Learning	25/11/2025
2	UNIT 1	Learning Paradigms	28/11/2025
3	UNIT 1	PAC learning	29/11/2025
4	UNIT 1	Basics of Probability, Version Spaces	2/12/2025
5	UNIT 1	Machine Learning in Practice	5/12/2025
6	UNIT 1	Data collection, Preprocessing (Missing values, Normalization, Adopting to chosen algorithm	6/12/2025
7	UNIT 1	Outlier Analysis (Z-Score)	9/12/2025
8	UNIT 1	Model selection & evaluation, Optimization of tuning parameters	12/12/2025
9	UNIT 1	Setting the environment, Visualization of results	13/12/2025
10	UNIT 2	Supervised Learning – I	16/12/2025
11	UNIT 2	Linear and Non-Linear examples	19/12/2025
13	UNIT 2	Multi-Class & Multi-Label classification	20/12/2025
14	UNIT 2	Linear Regression	23/12/2025
15	UNIT 2	Multilinear Regression	26/12/2025
16	UNIT 2	Naïve Bayes Classifier	27/12/2025
17	UNIT 2	Decision Trees	30/12/2025
18	UNIT 2	ID3 – CART – Error bounds	02/01/2026
19	UNIT 3	Supervised Learning - II	03/01/2026
20	UNIT 3	K-NN classifier	06/01/2026
21	UNIT 3	Logistic regression	09/01/2026
22	UNIT 3	Perceptrons	10/01/2026
23	UNIT 3	Single layer & Multi-layer	13/01/2026
24	UNIT 3	Support Vector Machines	16/01/2026
25	UNIT 3	Support Vector Machines	17/01/2026

26	UNIT 3	Linear & Non-linear	20/01/2026
27	UNIT 3	Semi-Supervised Learning	23/01/2026
28	UNIT 4	Unsupervised Learning	24/01/2026
29	UNIT 4	Clustering basics	27/01/2026
30	UNIT 4	Partitioned, Hierarchical and Density based	30/01/2026
31	UNIT 4	K-Means clustering	31/01/2026
32	UNIT 4	K-Mode clustering	03/02/2026
33	UNIT 4	Self organizing maps	06/02/2026
34	UNIT 4	Expectation maximization	07/02/2026
35	UNIT 4	Principal Component Analysis	17/02/2026
36	UNIT 4	Reinforcement Learning	20/02/2026
37	UNIT 5	Evaluation Metrics	21/02/2026
38	UNIT 5	ROC Curves	24/02/2026
39	UNIT 5	Evaluation Metrics	27/02/2026
40	UNIT 5	Significance tests	28/02/2026
41	UNIT 5	Error correction in Perceptrons	03/03/2026
42	UNIT 6	Ensemble Learning	06/03/2026
43	UNIT 6	Bagging and Boosting	07/03/2026
44	UNIT 6	Bagging and Boosting	10/03/2026
45	UNIT 6	Random forests	13/03/2026
46	All	Class Test/Doubt Class	14/03/2026

PARUL INSTITUTE OF TECHNOLOGY			
At & PO Limda, Ta Waghodia, Dt. Vadodara			
Academic Year: 2025-2026			
Name of Teacher: Mr. Meet Patel			
Subject: Machine Learning Laboratory (303105354)			
Lesson Plan No	Lesson Plan Title	Lesson Plan Description	Lesson Plan Date
1	UNIT 1	Dealing with Data using Numpy, Pandas, Statistics library.	27/11/2025
2	UNIT 1	Data Analysis & Visualization on Diwali	27/11/2025

		Sales Dataset.	
3	UNIT 2	Implement linear regression and logistic regression.	4/12/2025
4	UNIT 3	Implement the naïve Bayesian classifier for a sample training data set stored as a .CSV file. Compute the accuracy of the classifier, considering a few test data sets.	11/12/2025
5	UNIT 3	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	18/12/2025
6	UNIT 3	Decision tree-based ID3 algorithm.	01/01/2026
7		Class Test/ Manual Check	08/01/2026
8	UNIT 3	Write a program to implement the K-Nearest Neighbor algorithm to classify the iris data set.	22/01/2026
9	UNIT 4	Apply EM algorithm to cluster a set of data stored in a .CSV file. Use the same data set for clustering using k-Means algorithm.	29/02/2026
10	UNIT 4	Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using standard Heart Disease Data Set.	05/02/2026
11	UNIT 2 & UNIT 3	Compare the various supervised learning algorithm by using appropriate dataset. (Linear Regression, Support Vector Machine, Decision Tree)	19/02/2026
13	UNIT 2 & UNIT 3	Compare the various Unsupervised learning algorithm by using the appropriate datasets. (K Means Clustering, K Mode).	26/02/2026
14	UNIT 2 & UNIT 3	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	12/03/2026

PARUL INSTITUTE OF TECHNOLOGY			
At & PO Limda, Ta Waghodia, Dt. Vadodara			
Academic Year: 2025-2026			
Name of Teacher: Mr. Ajay Solanki			
Subject: MEA(R)N Stack Web Development (303105385)			
Lesson Plan No	Lesson Plan Title	Lesson Plan Description	Lesson Plan Date
1	UNIT 1	Overview of web development	25/11/2025
2	UNIT 1	Introduction to the MEAN stack	25/11/2025
3	UNIT 1	Setting up the development environment	28/11/2025

4	UNIT 2	NoSQL vs SQL, MongoDB overview	12/2/2025
5	UNIT 2	Installation & configuration walkthrough	12/5/2025
6	UNIT 2	CRUD operations deep-dive + class demo	12/9/2025
7	UNIT 2	Indexing and querying in MongoDB	12/12/2025
8	UNIT 2	Schema design and data modeling	13/12/2025
9	UNIT 2	Real-world use cases and mini project planning	16/12/2025
10	UNIT 2	MongoDB recap and Q&A	19/12/2025
11	UNIT 3	Node.js basics, why it's used	23/12/2025
13	UNIT 3	Express.js fundamentals, setup	26/12/2025
14	UNIT 3	Routing in Express, live coding	27/12/2025
15	UNIT 3	Middleware patterns (examples)	30/12/2025
16	UNIT 3	Integrating with Passport.js (security basics)	1/2/2026
17	UNIT 3	Error handling, logging best practices	1/6/2026
18	UNIT 3	Build a simple REST API	1/9/2026
19	UNIT 3	Node.js/Express practice and review	1/10/2025
20	UNIT 4	Angular overview, install, project structure	16/1/2026
21	UNIT 4	Components, modules, and services (build together)	20/1/2026
22	UNIT 4	Data binding demo, template syntax	23/1/2026
23	UNIT 4	Forms & validation examples	24/1/2026
24	UNIT 4	Routing and navigation practice	27/1/2026
25	UNIT 4	Angular HttpClient, connecting to AP	30/1/2026
26	UNIT 4	Observables, async pipe	31/1/2026
27	UNIT 4	Frontend integration for MEAN stack app	2/3/2026
28	UNIT 4	Mini project, Q&A, review, best practices	2/6/2026
29	UNIT 4	Progressive Web Apps (PWA) with Angular	2/10/2026
30	UNIT 4	Working with APIs (fetch, axios)	13/2/2026
31	UNIT 4	Building a complete frontend for the MEAN stack application	14/2/2026
32	UNIT 4	Deployment of MEAN app	17/2/2026
33	UNIT 5	Integrating the Angular frontend with the Express.js API	20/2/2026
34	UNIT 5	Authentication and user management integration	24/2/2026
35	UNIT 5	Handling real-time data with WebSockets	27/2/2026

36	UNIT 5	Error handling and testing	28/2/2026
37	UNIT 6	Preparing the application for deployment	3/3/2026
38	UNIT 6	Hosting and server setup options	6/3/2026
39	UNIT 6	Security best practices	10/3/2026
40	UNIT 6	Performance optimization and testing	13/3/2026
41	UNIT 6	Version control and continuous integration	14/3/2026
42	UNIT 7	Project work: Build a full-stack MEAN app	17/3/2026

<b>PARUL INSTITUTE OF TECHNOLOGY</b>			
At & PO Limda, Ta Waghodia, Dt. Vadodara			
Academic Year: 2025-2026			
Name of Teacher: Mr. Ajay Solanki			
Subject: MEA(R)N Stack Web Development (303105385)			
<b>Lesson Plan No</b>	<b>Lesson Plan Title</b>	<b>Lesson Plan Description</b>	<b>Lesson Plan Date</b>
1	UNIT 1	Research MEAN stack technology features	28/11/2025
2	UNIT 1	Install Node.js on local system	28/11/2025
3	UNIT 1	Install MongoDB on local system	28/11/2025
4	UNIT 1	Install Angular CLI globally	5/12/2025
5	UNIT 1	Install Express.js using npm	5/12/2025
6	UNIT 1	Setup folder structure for MEAN app	5/12/2025
7	UNIT 1	Initialize Node.js project with npm	12/12/2025
8	UNIT 1	Setup first basic HTTP server (Node.js)	12/12/2025
9	UNIT 2	Create sample MongoDB database	12/12/2025
10	UNIT 2	Create a MongoDB collection	19/12/2025
11	UNIT 2	Insert documents in collection	19/12/2025
13	UNIT 2	Use MongoDB shell commands for basic CRUD	26/12/2025
14	UNIT 2	Update documents in MongoDB	26/12/2025
15	UNIT 2	Delete from MongoDB	1/2/2026
16	UNIT 2	Create MongoDB schema with Mongoose	1/2/2026
17	UNIT 2	Perform validation with Express + Mongoose	1/9/2026
18	UNIT 3	Create a test Express.js API endpoint	1/9/2026

19	UNIT 3	Configure Express to connect to MongoDB	16/01/2026
20	UNIT 3	Create REST GET endpoint in Express	16/01/2026
21	UNIT 3	Create REST POST endpoint in Express	23/01/2026
22	UNIT 3	Handle errors with Express middleware	23/01/2026
23	UNIT 3	Test API with Postman	30/01/2026
24	UNIT 4	Create first Angular project	30/01/2026
25	UNIT 4	Create a static Angular component	2/6/2026
26	UNIT 4	Build reusable Angular component	2/6/2026
27	UNIT 4	Create Angular template with data binding	13/2/2026
28	UNIT 4	Write basic Angular form	13/2/2026
29	UNIT 4	Validate form in Angular	20/2/2026
30	UNIT 4	Configure routing in Angular	20/2/2026
31	UNIT 4	Connect Angular to mock API	27/2/2026
32	UNIT 5	Create Node.js module	27/2/2026
33	UNIT 5	Export and import Node.js module	06/03/2026
34	UNIT 5	Access environment variables in Node	06/03/2026
35	UNIT 5	Schedule tasks (setTimeout/setInterval)	13/3/2026
36	UNIT 5	Write file read/write in Node.js	13/3/2026
37	UNIT 6	Connect Angular frontend to Express backend	20/03/2026
38	UNIT 6	Deploy MEAN application (local/server)	20/03/2026
39	UNIT 6	Debug and test MEAN stack app	27/03/2026

## NPTEL / SWAYAM / MOOCs COURSES LIST AND DETAILS

Course Name	Instructor	Start Date	Enrollment Deadline	Exam Registration Deadline	End Date	Duration	Exam Date	Link
No subjects in the current semester are mapped with NPTEL courses								

## DETAILS OF VALUE-ADDED COURSES AND PROFESSIONAL COURSES

Sr. No.	Name Of Activity	Title	Expected Duration (In Hours)	Proposed Month	Name Of Internal Expert	Paid/Free
1	Professional Courses	AWS Practitioner Course	30 Hours	January, 2026	AWS Club	Free
2	Professional Courses	NETCAD Course	30 Hours	February, 2026	Cisco Networking Academy	Free

## Student Chapter / Council Details and Planned Activity

Sr. No.	Activity	Name Of Experts	Suggested Month
1	Orientation (Semester, Discipline, Exam etc.)	Respective FR	November, 2025
2	Career Counselling	Mr. Umang Panchal	January, 2026
3	Innovation & Entrepreneurship Councils	Ms. Nirali Bhaliya	February, 2026

## CURRICULAR EVENTS DURING THE SEMESTER

Sr. No.	Title Of Seminar	Name Of Experts	Organization	Suggested Month
1	AWS Community Event	AWS Expert	AWS Cloud Club	December, 2026
2	Code Optimization	Mr. Rathod Mohit	Technical Event Club	January, 2026
3	Projection	Projection Team	Projection Team	February, 2026
4	Tech Expo	TEC Cell	TEC Cell	February, 2026

## CSR ACTIVITY

Sr. No.	Title	Faculty	Organization	Suggested Month
1	Sanitation awareness activity in nearby rural school	Manabendra Sandilya	Parul University	March, 2026

## WDC ACTIVITY

Sr. No.	Title	Faculty	Organization	Suggested Month
1	Poster making competition on "EmpowerHer: Rise to Inspire"	Ms. Arpita Limbachiya	Parul University	March, 2026

## DETAILS OF VISITS PLANNED DURING THE SEMESTER

Sr. No.	Name Of Industry	Name Of Coordinator	Suggested Month
1	Bisag-N	Ms. Janhvi Dave	January, 2026
2	ISRO	Ms. Sujaya Bhattacharjee	February, 2026
3	WaytoWeb Pvt Ltd, Ahmedabd	Mr. Janhvi Dave	February, 2026

### **EXPERT TALK DURING THE SEMESTER**

Sr. No.	Name Of Expert	Industry Details	Area Of Expert Talk	Suggested Month
1	Mr. Nilesh Vaghela	ElectroMech	Cloud Computing	December,2025
2	Mr. Bhaumik Merchant	CyberNGO	Cyber Security	January, 2026
3	Mr. Sunil Yadavalli	IDS Inc	MetaVerse	February, 2026

### **FLAGSHIP EVENTS OF CONCERNED INSTITUTE, FACULTY AND UNIVERSITY**

Sr. No.	Title Of Event	Suggested Month
1	DHOOM	March, 2026
2	PROJECTION	February, 2026
3	TECH EXPO	February, 2026
4	PICET	May, 2026

### **PROMINENT ACADEMIC COMPETITION (OUTSIDE PU)**

Sr. No.	Title Of Academic Competition	Name Of Body
1	Hackathon	SSIP
2	Medechexpo	Ministry of Health and Family Welfare, Government of India
3	Vadodara Toyathon	AICTE

### **COORDINATORS OF VARIOUS COMMITTEE (ANTI RAGGING, WDC, ICC, OFFICE OF INTERNATIONAL AFFAIRS, CENTRE OF INTERNATIONAL RELATIONS AND RESEARCH, PIERC, SCHOLARSHIP, PUMIS, MENTORING ETC.)**

Sr. No.	Name Of Committee	Name Of Faculty Coordinators	Contact Number	Email ID
1	Anti-Ragging	Ms. Sumitra Menaria	94267 65592	Sumitra.menaria@paruluniversity.ac.in
2	WDC	Ms. Vaibhavi Parikh	88499 95938	vaibhavi.parikh25851@paruluniversity.ac.in
3	ISAC	Mr. Akash Suresh Patil	79904 79132	akash.patil24157@paruluniversity.ac.in

4	Alumni Coordinator	Ms Riddhi A Mehta	97122 69946	riddhi.mehta17528@paruluniversity.ac.in
5	Scholarship	Ms. Nilakshi Kale	75808 65700	nilakshi.kale35732@paruluniversity.ac.in
6	PUMIS	Dr. Mehta Nirav Pareshkumar	90672 62552	nirav.mehta40015@paruluniversity.ac.in
7	Mentoring	Mr. Girrajsinh Lavendrasinh Puvar	94090 29090	puvar.girrajsinh23266@paruluniversity.ac.in
8	Armed Forces/NCC	Mr Janmejay kumar	70545 72288	janmejay.vishwakarma35765@paruluniversity.ac.in
9	IRC	Mr Ashsih Patel	94234 70666	ashish.patel28275@paruluniversity.ac.in
10	TECH EXPO/TEC	Mr. Rathod Mohit	9978524578	mohitkumar.rathod20807@paruluniversity.ac.in
11	GATE Coordinator, Competitive Exam	Ms. Shubhangi Dhaygude	95118 57115	shubhangi.dhaygude25850@paruluniversity.ac.in
12	Training S Placement	Mr. Umang pravinkumar panchal	95129 77129	umang.panchal8978@paruluniversity.ac.in
13	Sport Coordinator	Mr. Ashish Dubey	72229 89825	ashish.dubey32524@paruluniversity.ac.in
14	NPTEL, MOOCs, Virtual Lab, Value Added Course	Dr Praveen Patidar	98935 25748	pravin.patidar33727@paruluniversity.ac.in
15	COE	Mr Chauhan Kalpesh	98981 07057	kalpesh.chauhan39550@paruluniversity.ac.in

#### RANKER LIST OF LAST SEMESTER RESULT WITH SGPA

Sr. No.	Enrollment Number	Name Of Students	SGPA
1	2303051050382	KRISHNA KANT SHUKLA	9.26
2	2303051240095	JAY DHODI	9.22
3	2303051260062	SANDEEP MANDAL	8.76

#### INTERACTION OF VARIOUS MEDIA PLATFORMS

Sr. No.	Institute/ University	Social Media Platform	Link
1	Parul University	LinkedIn	<a href="https://www.linkedin.com/school/paruluniversity/posts/?feedView=all">https://www.linkedin.com/school/paruluniversity/posts/?feedView=all</a>

2	Parul University	Instagram	<a href="https://www.instagram.com/paruluniversity/?hl=en">https://www.instagram.com/paruluniversity/?hl=en</a>
3	Parul University	Facebook	<a href="https://www.facebook.com/ParulUniversity/">https://www.facebook.com/ParulUniversity/</a>
4	FET	Instagram	<a href="https://www.instagram.com/engineering.at.pu/?igsh=MWRwcTZxYjc0em8wbg%3D%3D#">https://www.instagram.com/engineering.at.pu/?igsh=MWRwcTZxYjc0em8wbg%3D%3D#</a>
5	Parul University	Instagram	<a href="https://www.instagram.com/paruluniversity/?hl=en">https://www.instagram.com/paruluniversity/?hl=en</a>
<b>6</b>	CSE Department	WhatsApp Channel	<a href="#">PIT-CSE Department   WhatsApp Channel</a>

## Information about the Various Cells

### Anti-Ragging Cell

<b>Sr. No.</b>	<b>Name of the Committee Members with their Current Designation</b>	<b>Designation / Role in the Committee</b>	<b>Mobile No. and Office Landline Number</b>	<b>Email Id</b>
1	Dr. Swapnil M Parikh, Principal, PIT	Chairperson	9998168061	pit@paruluniversity.ac.in
2	Dr. Jaymin Bhalani, Vice Principal, PIT	Member	9426352396	jaymin.bhalani25970@paruluniversity.ac.in
3	Dr. Prathamesh R. Potdar, HOD (Automobile)	Member	7977593007	pitautomobilehod@paruluniversity.ac.in
4	Dr. Vishal Sandhwar, HOD (Chemical)	Member	8307070357	pitchemicalhod@paruluniversity.ac.in
5	Miss. Shilpa Pathak, HOD (Civil)	Member	9227530080	pitcivilhod@paruluniversity.ac.in
6	Mr. Ravi Paliwal, HOD (Electrical)	Member	8758767101	ravikumar.paliwal@paruluniversity.ac.in
7	Dr. Heli Amit Shah	Member	9904444883	pitmechatronicshod@paruluniversity.ac.in
8	Miss. Dimpl Khambhati, HOD (Biomedical)	Member	9427529314	pitbiomedicalhod@paruluniversity.ac.in
9	Dr. Rajan Kumar Singh, HOD (Biotechnology)	Member	8438168284	pitbiotechnologyhod@paruluniversity.ac.in
10	Miss. Sumitra Menaria, HOD (CSE)	Member	9426765592	pitcomputerhod@paruluniversity.ac.in
11	Dr. Vijay Kele, HOD (Dairy Technology)	Member	8805886474	pitdairytechnologyhod@paruluniversity.ac.in
12	Dr. Nityangini Jhala, HOD (ASH)	Member	9974407307	pitappliedscienceshod@paruluniversity.ac.in

13	Mr. Saurav Sengupta, HOD (Petroleum)	Member	7002292161	saurav.sengupta8872@paruluniversity.ac.in
14	Mr. Divyesh Vaghela, HOD (Agriculture)	Member	9824568413	pitagriculturehod@paruluniversity.ac.in
15	Ms. Nidhi R. Joshi, (Assistant Professor) Dr. Soham Trivedi, (Assistant Professor)	Member(s)	9510407533 9825331356	nidhi.joshi8981@paruluniversity.ac.in soham.trivedi33461@paruluniversity.ac.in
16	Harsh Fanse, Clerk, ASH	Member Non-tech staff	8128771177	harsh.fanse41208@paruluniversity.ac.in
17	Manansingh Shekhavat Shivam kumar Thakur (Second year students)	Member(s)	9428464219 9534467705	2403051050851@paruluniversity.ac.in 2403051050527@paruluniversity.ac.in
18	Mr. Kishor bhai Rathod  Mr. Jagdishchandra Chauhan	Member(s)	99792 40899 93775 47682	PARENTS  (Will soon be provided from Institute coordinator)
19	Shri Siddharth Maniyar, Sr. Journalist, Sandesh Newspaper	Member	8000050255	siddharth.maniyar@gmail.com
20	Smt. Swati S. Bedekar, Representative of NGO, Vatsalya Foundation, 15/ Vrindavan Estate, Pashabhai Patel Park, Race Course, Vadodara-390007	Member	9824058675	swatibedekar@gmail.com
21	Police Inspector, Waghodia Police Station.	Member	02668-262233	polstn-wagh-vad@gujarat.gov.in

## **Student Grievance Redressal Cell**

### **The grievances related to following instances will be considered by Students' Grievance Redressal Committee**

- Admission contrary to merit determined in accordance with the declared admission policy of the institution;
- Irregularity in the process under the declared admission policy of the institution; refusal to admit in accordance with the declared admission policy of the institution;
- Non-publication of a prospectus by the institution, in accordance with the provisions of these regulations;
- Publication by the institution of any information in the prospectus, which is false or misleading, and not based on facts;
- Withholding of, or refusal to return, any document in the form of certificates of degree, diploma or any other award or other document deposited by a student for the purpose of seeking admission in such institution, with a view to induce or compel such student to pay any fee or fees in respect of any course or program of study which such student does not intend to pursue;
- Demand of money in excess of that specified to be charged in the declared admission policy of the institution;
- Violation, by the institution, of any law for the time being in force in regard to reservation of seats in admission to different category of students;
- Non-payment or delay in payment of scholarships or financial aid admissible to any student under the declared admission policy of such institution, or under the conditions, if any, prescribed by the Commission;
- Delay by the institution in the conduct of examinations, or declaration of results, beyond the schedule specified in the academic calendar of the institution, or in such calendar prescribed by the Commission;
- Failure by the institution to provide student amenities as set out in the prospectus, or is required to be extended by the institution under any provisions of law for the time being in force;
- Non-transparent or unfair practices adopted by the institution for the evaluation of students;
- Delay in, or denial of, the refund of fees due to a student who withdraws admission within the time mentioned in the prospectus, subject to guidelines, if any, issued by the Commission, from time to time;
- Complaints of alleged discrimination of students from the Scheduled Castes, the Scheduled Tribes, Other Backward Classes, Women, Minorities or persons with disabilities categories;
- Denial of quality education as promised at the time of admission or required to be provided;

- Darassment or victimization of a student, other than cases of harassment, which are to be proceeded against under the penal provisions of any law for the time being in force;

The term of the chairperson and members shall be for a period of two years.

The term of the special invitee shall be one year.

The SGRC shall send its report with recommendations, if any, to the Provost and a copy thereof to the aggrieved student, preferably within a period of 15 working days from the date of receipt of the complaint.

Any student aggrieved by the decision of the Students' Grievance Redressal Committee may prefer an appeal to the Ombudsperson, within a period of fifteen days from the date of receipt of such decision.

### **OMBUDSMAN**

The university has appointed Prof. D.M.Patel, Retd. Principal, M.S.U.Polytechnic, Vadodara as OMBUDSMAN for redressal of grievances of students of the university.

His appointment as OMBUDSMAN shall be for a period of three years or until he attains the age of 70, whichever is earlier.

### **PROCEDURE FOR REDRESSAL OF GRIEVANCES BY OMBUDSPERSONS AND STUDENT GRIEVANCE REDRESSAL COMMITTEES:**

1. The university has created an online portal <https://paruluniversity.ac.in/student-services> where any aggrieved student may submit an application seeking redressal of grievance.
2. On receipt of an online complaint, HOI of the institution shall refer the complaint to the Students' Grievance Redressal Committee, along with its comments within 15 days of receipt of complaint on the online portal.
3. The Students' Grievance Redressal Committee shall fix a date for hearing the complaint which shall be communicated to the HOI of the institution and the aggrieved student.
4. An aggrieved student may appear either in person or authorize a representative to present the case.
5. Grievances not resolved by the Students' Grievance Redressal Committee within the time period provided in these regulations may be referred to the Ombudsperson by the university.
6. HOIs of Institutions shall extend co-operation to the Ombudsperson or the Student Grievance Redressal Committee(s), in early redressal of grievances.
7. The Ombudsperson shall, after giving reasonable opportunities of being heard to the parties concerned, on the conclusion of proceedings, pass such order, with reasons thereof, as may be deemed fit to redress the grievance and provide such relief as may be appropriate to the aggrieved student
8. The institution, as well as the aggrieved student, shall be provided with copies of the order under the signature of the Ombudsperson.
9. The institution shall comply with the recommendations of the Ombudsperson.

10. The Ombudsperson may recommend appropriate action against the complainant, where a complaint is found to be false or frivolous.

### **FUNCTIONS OF OMBUDSPERSON:**

- The Ombudsperson shall hear appeals from an aggrieved student, only after the student has availed all other remedies provided under these regulations.
- While issues of malpractices in the conduct of examination or in the process of evaluation may be referred to the Ombudsperson, no appeal or application for revaluation or re-totalling of answer sheets from an examination, shall be entertained by the Ombudsperson unless specific irregularity materially affecting the outcome or specific instance of discrimination is indicated.
- The Ombudsperson may avail assistance of any person, as amicus curiae, for hearing complaints of alleged discrimination.
- The Ombudsperson shall make all efforts to resolve the grievances within a period of 30 days of receiving the appeal from the aggrieved student(s).

### **Alumni Association cell**

Parul University Alumni Association (PUAA) proudly represents a global family of 80,000+ alumni across 38 constituent institutions, creating a lifelong network that connects graduates with their peers, mentors, and the University. PUAA serves as a bridge between past and present, fostering collaboration, mentorship, and professional growth while celebrating the achievements of our alumni community across the world.

Through its various initiatives, PUAA promotes knowledge sharing, career development, entrepreneurship, social impact, and global engagement, empowering every alumnus to contribute towards building a more innovative and inclusive future.

### **Our Chapters: Strengthening Global Bonds**

PUAA has established 08 National and 25 International Alumni Chapters that act as local hubs of networking, mentorship, and collaboration — with many more upcoming chapters set to further expand and enrich our global alumni network.

- National Chapters: Vadodara Chapter | Ahmedabad Chapter | Rajkot Chapter | Surat Chapter | Udaipur Chapter | Navsari Chapter | Hyderabad Chapter | Pune Chapter | Mumbai Chapter | Dahod Chapter.
- International Chapters: New Jersey Chapter – USA | Texas Chapter – USA | London Chapter – UK | Berlin Chapter – Germany | Paris Chapter – France | Bhutan Chapter | Nepal Chapter | Zimbabwe Chapter | Uganda Chapter | Kenya Chapter | Zambia Chapter | Lithuania Chapter | Dubai Chapter – UAE | Mozambique Chapter | South Sudan Chapter | Madagascar Chapter | Gambia Chapter | Guinea Chapter | Nigeria Chapter | Niger Chapter | Tanzania Chapter | Ethiopia Chapter | Cameroon Chapter | Ghana Chapter | Ivory Coast Chapter.

Each chapter promotes cultural exchange, professional opportunities, and university pride, reinforcing Parul University's global presence.

## **Student-Alumni Engagement Initiatives**

PUAA actively bridges the gap between students and alumni through various programs aimed at learning, growth, and career development:

- Alumni Talk Series: Alumni from diverse industries regularly visit the campus or connect virtually to share insights, experiences, and professional guidance with current students.
- ASMP – Alumni Student Mentorship Program (Industry Connect): A structured initiative pairing students with alumni mentors for personalized career guidance, higher education support, and skill development.
- HR Connect: Alumni working in HR, recruitment, and corporate sectors collaborate with the university to provide placement opportunities and industry exposure.
- Alumni Webinars & Industry Panels: Interactive sessions where global alumni discuss emerging trends, innovation, and career paths.
- Entrepreneur Connect: Alumni entrepreneurs inspire students to explore startup ideas, innovation, and business leadership.

# Notable Alumni: Our Pride, Our Inspiration

PUAA celebrates the accomplishments of its distinguished alumni who have excelled across diverse domains — from technology & Healthcare to entrepreneurship, public service, and research.



**Mr. Parth Patel**  
Systems Development Engineer III,  
Google



**Mr. Saurabh Verma**  
Software Engineer,  
Amazon



**Mr. Gurjeet Bhullar**  
Director, Business Operations,  
Mastercard, USA



**Mr. Tapan Dave**  
Engineering Manager and  
Enterprise Architect,  
Mastercard



**Mr. Binoy Jacob**  
Service Engineer,  
Microsoft



**Ms. Ruchika Tiwari**  
Program Manager II,  
Google



**Mr. Kuldeep Makwana**  
Data Annotations Specialist,  
Microsoft



**Ms. Swathi Rai**  
Senior Software Engineer,  
Apple, USA



**Mr. Sanjay Patel**  
Assistant Commissioner of State Tax  
State Tax Department,  
Government of Gujarat



**Dr. Amisha Patel**  
Assistant Commissioner of Labour  
Commissionerate of Labour,  
Government of Gujarat.



**Mr. Shubham Shukla**  
Deputy Superintendent of Police,  
Central Bureau of Investigation,  
Government of India



**Dr. Ajay Zampda**  
Deputy Collector,  
Government of Gujarat



**Dr. Kritika Thakur**  
Class - I Ayurvedic Medical Officer,  
Himachal Pradesh Public Service  
Commission, Govt. of India



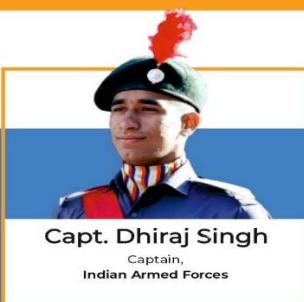
**Mr. Aryan Bagade**  
Flight Manager,  
Indigo



**Mr. Suraj Solanki**  
Assistant Commandant,  
Central Armed Police Forces,  
Government of India



**Mr. Parth Gabani**  
Quality Engineer,  
Tesla, Germany



**Capt. Dhiraj Singh**  
Captain,  
Indian Armed Forces



**Mr. Dhruv Varia**  
Community Health Officer,  
National Health Mission - Gujarat,  
Government of Gujarat



**Dr. Janki Panchal**  
Sports Physiotherapist,  
Reliance Foundation



**SLt. Gautam Jha**  
Sub Lieutenant,  
Indian Navy

## **NEP Cell**

**"Empowering Learners through Multidisciplinary and Holistic Education"**

Parul University, by its very structure, embodies the essence of a multidisciplinary institution, offering a wide range of programs across Engineering, Medicine, Management, Liberal Arts, Law, Pharmacy, Physiotherapy, Agriculture, Design, Hotel Management, Performing Arts, Fine Arts, Commerce, and Ayurveda.

This inherent diversity, supported by strong academic infrastructure and a vision for holistic education, has enabled the University to integrate and implement the National Education Policy (NEP) 2020 naturally and effectively.

The presence of multiple faculties under one umbrella promotes cross-disciplinary learning, flexible curriculum design, and innovative academic pathways in line with national educational reforms.

To ensure structured and coordinated policy implementation, Parul University established the National Education Policy Cell (NEP Cell) in 2022 and the Center for Multidisciplinary and Interdisciplinary Education (CMIE) in 2023. These dedicated bodies serve as institutional anchors for planning, coordination, and execution of NEP initiatives across faculties. The University's NEP journey began with the introduction of the Four-Year Undergraduate Programme (FYUP) across ten faculties in 2023–24, extended to Agriculture in 2024–25, and further expanding to Engineering from 2025–26.

The Four-Year Undergraduate Programme (FYUGP), as envisioned under NEP 2020, promotes academic flexibility, skill enhancement, and value-based learning. Parul University has adopted this framework to create a student-centric learning ecosystem integrating academic excellence, professional skills, and ethical values.

The curriculum includes the following categories of courses:

- Professional Core Courses (PCC): Form the backbone of the professional program, providing in-depth theoretical and practical knowledge specific to the chosen discipline. These courses develop essential competencies and technical expertise required for professional practice.
- Professional Elective Courses (PECs): Offer flexibility for learners to specialize in emerging areas or sub-domains of their profession. They enable students to tailor their learning pathway according to their interests, career goals, and industry trends.
- Humanities and Social Science, including Management Courses (HSMC): Promote a broad understanding of social, cultural, ethical, and economic contexts. These courses nurture communication, teamwork, leadership, and managerial skills essential for responsible and effective professional engagement.
- Basic Science Courses (BSC): Lay the scientific foundation necessary for engineering and technology education. They build analytical thinking and problem-solving abilities through subjects such as mathematics, physics, chemistry, and related

sciences.

- Engineering Science courses (ESC): Bridge the gap between basic sciences and professional engineering applications. These courses introduce fundamental engineering principles, tools, and methodologies that support design and innovation in technical domains.
- Multidisciplinary Open Professional Electives Courses (MOPECs): Encourage cross-disciplinary learning and innovation by allowing students to explore courses across different branches of engineering, technology, and applied sciences. They promote adaptability and a systems-thinking approach in solving complex real-world problems.
- Project Work /Skilling-Based Course/ Training/ Internship: Provide experiential learning through practical application of concepts in real-world environments. These components enhance hands-on skills, innovation, teamwork, and industry readiness through capstone projects, skill modules, and internships.
- Mandatory courses (MNC): Instill essential values and awareness regarding environmental sustainability, ethics, human values, and professional responsibility. These non-credit courses support holistic development and responsible citizenship among learners.

In alignment with UGC's SWAYAM and MOOC guidelines, Parul University recognizes online courses completed through the SWAYAM portal, enabling students to earn academic credits. The University also conducts in-house examinations for such approved MOOC courses, ensuring credit equivalence and smooth academic integration.

The NEP 2020 implementation at Parul University provides students with multiple academic advantages. It allows them to customize their learning pathways by choosing subject combinations across disciplines, thus promoting true academic freedom and holistic learning. The emphasis on experiential and multidisciplinary education equips students with practical skills, critical thinking, and problem-solving abilities essential for professional success. The adoption of a credit-based system encourages lifelong learning, while integration with digital platforms like SWAYAM enhances access to high-quality educational resources.

To ensure the successful execution of NEP 2020, Parul University emphasizes faculty empowerment as a cornerstone of its implementation strategy. All faculty members are encouraged to undergo the Malaviya Mission Teacher Training Programme (MMTTP) as recommended by the University Grants Commission (UGC).

#### Alignment with National Credit Framework (NCrF)

Parul University follows the National Credit Framework (NCrF) and National Higher Education Qualification Framework (NHEQF) guidelines to standardize credits and learning outcomes across all programs.

Table- 1 Implementation Framework – Diploma/UG/PG/Ph.D Level Program

<b>NCrF/ NHEQF Level</b>	<b>Qualification Title</b>	<b>Minimum Credit Requirement</b>
Level 3.5	Certificate of Vocation Programme Duration: First year or two semesters of the diploma programme	40
Level 4.0	Diploma of Vocation Programme Duration: Two year or four semesters of the diploma programme	80
Level 4.5	Diploma Degree Programme Duration: Three year or six semesters of the Diploma programme	120
Level 4.5	Undergraduate Certificate Programme Duration: First year or two semesters of the undergraduate programme	40
Level 5.0	Undergraduate Diploma Programme Duration: First two years or four semesters of the undergraduate programme	80
Level 5.5	Bachelor of Vocational Programme Duration: Three years or six semesters	120
Level 6.0	Bachelor's Degree Programme Duration: Four years or eight semesters	160
Level 6.5	Postgraduate Diploma Programme Duration: One year or two semesters	40
Level 7.0	Postgraduate Degree (Master's Degree) Programme Duration: Two years or four semesters	80
Level 8.0	Doctoral Degree (Ph.D.)	40

This ensures credit mobility, enabling students to transfer, accumulate, and redeem credits nationally through the Academic Bank of Credits (ABC).

### **Centre for Distance and online Education (CDoE)**

#### **Backdrop**

The Centre for Distance & Online Education (CDOE) at Parul University is committed to democratizing access to quality higher education by leveraging flexible, technology-enabled learning modes. Our mission is to empower learners—especially working professionals, remote learners, and lifelong learners—with UGC-approved, digitally delivered programmes that maintain the highest academic standards.

#### **Key Features & Strengths**

- **UGC-Recognized & Regulated:** The programs offered under CDOE comply with UGC (OL & ODL) regulations, ensuring equivalence with regular-mode degrees.
- **NAAC A++ Accredited University:** Parul University's institutional reputation adds strength and credibility to its distance and online and distance program offerings.
- **Diverse Program Portfolio:** CDOE offers a wide range of undergraduate and postgraduate online and distance programs—spanning Arts, Commerce, Science, Management, Computer Applications and more.
- **Flexible Learning Mode:** Examinations for Online learners are conducted in online mode to suit remote learners.
- **Scholarship & Dual Degree Options:** Offered programs include scholarship options and dual degree options to maximize value for students.
- **Global & Virtual Exposure:** Through virtual classrooms and global exchange programs, learners get exposure to international perspectives and best practices.

### **Why Choose CDOE, Parul?**

- **Accessibility & Convenience:** Learn from anywhere, anytime, without needing to relocate to campus.
- **Quality & Credibility:** Degrees awarded are recognized and equivalent to traditional formats under UGC norms.
- **Industry-Relevant Curriculum:** Programs are designed to meet evolving industry needs, with input from domain experts and faculty.
- **Learner Support & Resources:** Digital libraries, faculty mentors, technical support, and online study materials ensure smooth learning experiences.
- **Career Advancement & Upskilling:** Ideal for professionals aiming to progress in their careers without interrupting work commitments.

**The list of program offerings are as below:-**

S.No.	Type	Programme Name	Progra mme Name.	Durat ion	Eligibility	Lump Sum Fee	Annua l Fee	Semester Fee
1	Online Learning (OL)	Bachelor of Arts	B.A.	3 Years	10+2 Examination or any other equivalent Examination	₹ 70000.0	₹ 90000 ₹ 30,000 per year	₹111000 ₹18,500 per semester
2	Online	Bachelor of	B.B.A.	3	10+2	₹ 70000.0	₹	₹111000

	Learning (OL)	Business Administration		Years	Examination or any other equivalent Examination		90000 ₹ 30,000 per year	₹18,500 per semester
3	Online Learning (OL)	Bachelor of Computer Application	B.C.A.	3 Years	10+2 Examination or any other equivalent Examination "	₹ 70000.0	₹ 90000 ₹ 30,000 per year	₹ 111000 ₹ 18,500 per semester
4	Online Learning (OL)	Master of Business Administration	M.B.A.	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 90000.0	₹ 1,10,000.00 ₹ 55,000 per year	₹ 1,50,000.00 ₹ 37,500 per semester
5	Online Learning (OL)	Master of Computer Application	M.C.A.	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 80000.0	₹ 1,00,000.00 ₹ 50,000 per year	₹ 1,20,000.00 ₹ 30,000 per semester
6	Online Learning (OL)	Master of Commerce	M. Com	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 1,00,000.00 ₹ 50,000 per year	₹ 60,000.00 ₹ 15,000 per semester
7	Online Learning (OL)	Master of Arts - Journalism & Mass Communication	M.A. - J.M.C.	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 1,00,000.00 ₹ 50,000 per year	₹ 60,000.00 ₹ 15,000 per semester
8	Online Learning (OL)	Master of Arts - English Language Teaching	M.A. - E.L.T.	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 1,00,000.00 ₹ 50,000 per year	₹ 60,000.00 ₹ 15,000 per semester

9	Online Learning (OL)	Master of Social work	M. S. W.	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 1,00,000.00 ₹ 50,000 per year	₹ 60,000.00 ₹15,000 per semester
10	Online Learning (OL)	Master of Science - Applied Mathematics	M. Sc. - Applied Mathematics	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category) with mathematics at the 10+2 or graduation level	₹ 40000.0	₹ 50,000.00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester
11	Open & Distance Learning (ODL)	Bachelor of Arts - Economics (Hons)	B. Arts - Economics (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
12	Open & Distance Learning (ODL)	Bachelor of Arts - English (Hons)	B.Arts-English (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
13	Open & Distance Learning (ODL)	Bachelor of Arts - Political Science (Hons)	B. Arts - Political Science (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
14	Open & Distance Learning (ODL)	Bachelor of Arts - Sociology (Hons)	B.Arts-Sociology (Hons)	4 Years	10+2 Examination or any other equivalent	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500

					Examination		30,000 per year	per semester
15	Open & Distance Learning (ODL)	Bachelor of Science - Mathematics (Hons)	B.Sc - Mathematics (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
16	Open & Distance Learning (ODL)	Bachelor of Social Work (Hons)	B.S.W - (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
17	Open & Distance Learning (ODL)	Bachelor of Business Administration (Hons)	B.B.A (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
18	Open & Distance Learning (ODL)	Bachelor of Computer Application (Hons)	B.C. A (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
19	Open & Distance Learning (ODL)	Bachelor of Commerce (Hons)	B.Com (Hons)	4 Years	10+2 Examination or any other equivalent Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 per semester
20	Open & Distance Learning (ODL)	Master of Business Administration	MBA	2 Years	Graduates with minimum 50% marks (45% for SC/ST category)	₹ 90000.0	₹ 1,10,000.00 ₹ 55,000 per year	₹ 1,50,000.00 ₹37,500 per semester
21	Open &	Master of	MCA	2	Graduates	₹ 80000.0	₹	₹

	Distance Learning (ODL)	Computer Application		Years	with minimum 50% marks (45% for SC/ST/OBC category)		1,00,00 0.00 ₹ 50,000 per year	1,20,000.0 0 ₹30,000 per semester
22	Open & Distance Learning (ODL)	Master of Commerce	M. Com	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 50,000. 00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester
23	Open & Distance Learning (ODL)	Master of Arts - English Language Teaching	M.A. - ELT	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 50,000. 00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester
24	Open & Distance Learning (ODL)	Master of Arts (Economics)	M.Arts (Economics)	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 50,000. 00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester
25	Open & Distance Learning (ODL)	Master of Arts (English Literature)	M. Arts (English Literature)	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 50,000. 00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester
26	Open & Distance Learning (ODL)	Master of Arts (Geography)	M.Arts (Geography)	2 Years	Graduates with minimum 50% marks (45% for SC/ST/OBC category)	₹ 40000.0	₹ 50,000. 00 ₹ 25,000 per year	₹ 60,000.00 ₹15,000 per semester

The learner can register and log in at <https://admissions.paruluniversity.ac.in/student/login> for your admission formalities.

### Continuing Education Programs (CEP)

Parul University's Continuing Education Programs stands at the forefront of skill-based education, dedicated to bridging the gap between the dynamic demands of industry and the expertise of today's professionals. With an expansive range of flexible learning programs, CEP is designed to meet the evolving needs of students and organizations alike, equipping learners with in-demand skills and fostering growth in their careers and entrepreneurial pursuits.

### **About Certificate Programs Offered:**

CEP offers diverse programs developed in line with current industry standards, allowing individuals and organizations to choose learning paths that match their interests and goals. From Certificate to Fellowship our offerings promote professional development through a unique blend of online and offline lectures, experiential learning, practical projects, and engaging activities.

### **About Dual Degree Programs Offered:**

As per the University Grants Commission (UGC), candidates are allowed to pursue two academic degrees. They can pursue up to two courses affiliated with the same university or from different universities simultaneously. With the ever-increasing knowledge and skills in today's competitive world, Dual Degree opportunities allow you to pursue two degrees at the same time. Studying dual degrees will provide you with the most competitive advantage and give you diverse knowledge in multiple fields and disciplines. Undergraduate and Postgraduate students can study two degree programs in multiple fields and fulfill the coursework and program requirements

### **Diploma and Post Graduate Diploma Programs Offered by Parul University as Dual Degree**

#### **Diploma Programs**

- Native Mobile Application Development
- AR VR (Augmented Reality Virtual Reality)
- Neural Network and Deep Learning
- Blockchain Technology (Online Mode)
- Robotics and Automation
- Industrial Design
- Infection Prevention Control and Patient Safety
- Biomedical Instrumentation
- Green and Sustainable Technology
- Digital Marketing (Online Mode)
- Computer Application and Business Management
- Financial Services and Portfolio Management (Online Mode)
- Bharatnatyam
- Theatre
- Music
- Industrial Automation
- Cyber Crimes and Security Laws
- Regulatory Affairs
- Semiconductor Technology

- Game Design & Development
- Business Analytics (Online Mode)
- Journalism

Program Fees – 25000/- (Duration – 1 year)

#### **PG Diploma Programs**

- Intellectual Property Rights
- Digital and social Media Marketing
- Industrial Relations and Personnel Management (Online Mode)
- Labour Law
- Diabetic Educator

Program Fees – 30000/- (Duration – 1 year)

#### **For More Information Contact to:**

Sr. No.	Name of Staff	Contact Number	Room No.	Location
1.	Mr. Ankit Dudrejiya, Manager	+917486009889	122	Subhashchandra Bose Bhawan (Agriculture Building), Parul University
2.	Mr. Ravi Kadramekar, Deputy Manager	+919510971637	122	

#### **Office of International Affairs**

The Office of International Affairs (OIA) at Parul University serves as the central coordinating body for all international academic, administrative, and student-related functions. It is dedicated to fostering global engagement, facilitating international students services, and ensuring the holistic integration of international students into the academic and cultural life of the University.

OIA functions as a single window of support for all international students—assisting them from the point of admission and visa facilitation to academic onboarding, accommodation, and cultural orientation. The Office is committed to creating a safe, inclusive, and multicultural environment that enables every student to thrive both academically and personally.

Through its various operational divisions, OIA oversees international admissions, student welfare, immigration compliance, academic coordination, and institutional collaborations.

The Office also organizes intercultural exchange events and student engagement programs that promote global learning and diversity on campus.

Guided by the mission of “making the globe our classroom,” OIA strives to position Parul

University as a globally recognized institution that embodies excellence, inclusivity, and innovation in international higher education.

### Contact Information:

#### **Office of International Affairs (OIA)**

Parul University, Vadodara, Gujarat, India

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[www.paruluniversity.ac.in](http://www.paruluniversity.ac.in)

Instagram: @ParulUniversityGlobal | Facebook: @PUGlobal

### **Unfair Means (UFM)**

#### Guidelines

- The cases of malpractices related to any examination shall be referred to the "Disciplinary Committee for Unfair Means in Examination". This committee, consisting of three deans of faculties nominated by honorable Provost in each semester, after proper inquiry and judicious evaluation of all available documents and after giving fair and reasonable opportunity of being heard in each case, will recommend the punishment for further action to the concerned competent authority.
- In some categories, the degree of culpability of all cases falling under a particular category may not be the same. Different levels of punishment are therefore recommended or such categories, so that the Disciplinary Committee for Unfair Means in Examination can recommend punishment at the appropriate level.
- Essentially, these recommendations are for guidance of the Disciplinary Committee for Unfair Means in Examination. The committee may recommend milder or harsher punishment than that shown in the guidelines if it feels that such punishment is justified in a particular case. In the overall perspective what is necessary is, that the Disciplinary Committee for Unfair Means in Examination should have a corrective rather than a punitive approach, while at the same time, it should preserve the honesty and integrity of the exam system.
- The Committee recommends punishment with reference to the malpractice involved in each case but the effect of the punishment recommended is to be read with academic regulations laid down by the university from time to time.

#### **Note:**

The following explanations will apply to the various guidelines in table format and terms which are not defined are to be interpreted as per the regulations notified by the university from time to time.

- Reference to a male candidate implies similar reference to a female candidate.
- Reference to certain words in singular form implies reference to their plural form also, where the context is obvious e.g. answer book / answer books, note/notes, chit/chits, page/pages etc.
- Reference to answer book implies reference to main answer books.

- "Examination" means an examination or a test for theory, practical, termwork including viva, term assignment, class test dissertation, project work synopsis/thesis of Ph.D. etc. and any other form of evaluation conducted by University or by any Institution of the University.
- Supplementary Examination is not a separate Examination but it is a part of End Semester Examination and hence whenever the punishment is imposed for Supplementary Examination it should be considered as a part of End Semester Examination.
- Cancellation of result shall mean cancellation of appearance in the examination.
- Whenever there is more than one punishment imposed, then the penalty will have effect one after another i.e. only after completion of one penalty other will start.

The applicable punishments with reference to nature of malpractices are as mentioned below.  
Punishment: UF-1 Cancellation of the result of the respective subject.

- If a candidate disobeys the instruction of the authorized officer of the University or block Supervisor regarding maintaining silence, discipline, obstructing the process of examination in any way.
- If the candidate found using indecent or abusing words in the answer book. Attempts to remove encrypted code or any sticker on the answer book. Indulges in writing the matter relevant to the subject before commencement of exam.
- If a candidate, in association with other candidate/s, attempts to copy the answer in any manner.

Punishment: UF-2 Cancellation of the result of all subjects of the concerned semester / term / year.

- If the candidate gives his address /email/phone no. etc. or discloses his identity in any manner in the answer book (which is not permitted). Possess any sort of exam relevant material in the examination hall or even outside the examination hall like toilet, lobby etc. or tries to contact any unauthorized person during the exam timings.
- During the examination, if the candidate
  - Has changed the allocated seat without permission. Communicate with another examinee or try to pass information even after a word of caution from any authority. Any sort of writing on the question paper.
  - Is found to be in possession of unauthorized electronics device(s) including mobile phone except recommended calculator irrespective of whether it is used or not used.
  - The candidate tries to destroy evidence of malpractice by throwing it away, chewing it, or by any means which was found in his possession during examination.
  - During the assessment, the examiner reports that the handwriting in some portion of the answer book differs from the usual handwriting of the candidate found from the answer book of a candidate.
  - A candidate is found requesting and using writer by submitting false/fraud evidence.
  - If the candidate is caught indulging in malpractice in examination and makes an attempt to influence -The authorized person for conduct of examination / member/s of the Disciplinary Committee for

Unfair Means in Examination / examiner concerned for seeking his favor or exerting personal pressure. -The examiner for seeking his favors either by bribing/hiding currency notes in the answer sheets or the examiner for seeking answer-books or threatens any of the authorized

officers for conduct of examination.

Punishment: UF-3 Cancellation of the results of examination of \*two subjects of concerned semester/term/year.

- During the examination, if a student is found in possession of any hand-written/printed/non printed/photocopy/typed/soft material etc. on his/her body or inside the clothes or under any of his/her implements like calculator, Compass, etc. on in his/her vicinity either reported by the Supervisor or subsequently by the examiner either used or unused,
- If a candidate, in association with other candidate/s, attempts to copy the answer in any manner which may include the following. The candidate has copied from the answer book of another candidate/s. Exchanges / borrows / takes written answer book or question paper or material in any form other candidate.

Punishment: UF-4 Cancellation of the results of all Examinations of all the subjects of concerned semester/term/year.

- During the Examination if the candidate

- Is found to be in possession of unauthorized answer book or part thereof, either blank or written upon or
- Attempts to throw or carry away the answer book or part thereof outside the examination hall or
- Is found to have torn the answer book or part thereof, of his own or of other candidate or
- Is found to have made corrections in the seat/roll nos. on the answer-books or other writing himself or with the help of the other person/s.

- If a candidate snatches away or takes away or uses answer book or part thereof or question paper of other candidate.

Punishment: UF-5 Cancellation of result of all the subjects of the current semester/term examination and initiate the criminal proceeding including filing FIR against the student/person involved in this incident.

- Physically assaulting the Block Supervisor / any other person appointed to conduct the examination or threatening the staff or carrying and/or using offensive tools/weapons for intimidation / causing injuries.

Punishment: UF-6 Cancellation of result of all the subjects of the current semester examination and debarred to appear in next four summer/winter, regular/supplementary all examinations to be conducted by the University.

- If the examinee carries away an answer book, supplementary or practical job or part thereof outside the exam hall. Leaves the examination hall without submitting his answer book or tries to destroy it.

Punishment UF-7 Initiate the criminal proceeding including filing FIR for the impersonate involved in this incident and dismissing the student of the constituent college of the Parul University. Debarring both of them from the university for a period of two years if both are from within constituent colleges.

- If one impersonates as a candidate on behalf of a candidate of any constituent college of Parul University and is found appearing in the examination in place of an eligible student of the constituent college of Parul University.

Punishment: UF 8 Deferred submission of thesis/dissertation/ project work for a period of 1

year in case of Masters. The resubmission of the thesis/project work/dissertation shall be with fresh work. It may be understood that the student will have to go through all the stages of evaluation of his/her fresh work.

- If an examinee of P.G. courses is found guilty of plagiarism of a thesis/dissertation/ project work during the period of assessment

Punishment: UF-9 The degree awarded shall be withdrawn by the University.

- If a candidate who is awarded Masters from the University, is found guilty of plagiarism by the University.

During or after the examination, if any candidate is found to have indulged in any form of malpractices which are not covered in categories mentioned in the above guidelines having bearing on the examination or result of the candidate and/or of any other candidate. - The Disciplinary Committee for Unfair Means in examination shall recommend the punishment depending upon the nature and gravity of the malpractice.

In case where the punishment "cancellation of the result of the two subjects" is awarded the one subject will be the subject in which he/she is caught for indulging in unfair means, while the other subject will be in which the candidate shall be declared "pass" and in which he/she shall have received the lowest grades compared to other subjects.

In the eventuality, where the scores obtained by the candidate is equal in two subjects, the other subject will be considered as per the chronological order of the subject of the concerned semester/term/year.

## GLIMPSES OF EVENT



TECH EXPO 2025



NATIONAL SCIENCE DAY 2025



PLACEMENT DAY 2025



DHOOM 2025