Academic Booklet

Academic Year 2025-26

Bachelor of Technology

Computer Science & Engineering (CSE)

Semester 6

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

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 be a citadel of higher education widely acclaimed for its quality education and innovative research contributing towards development of competent professionals with human values for societal development.

MISSION

- To provide value-based quality education with relevant skill-set to become responsible productive citizen.
- To undertake innovative research and development activities to address challenges faced by mankind.
- To serve the society, community, industry in solving challenges improving scientific and cultural environment of the region to enrich quality of life.

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 FACULTY

The Faculty of Engineering and Technology (FET) stands as a beacon of innovation, excellence, and transformation — one of the earliest and most prestigious pillars of technical education of Parul University. Since its inception, FET has been instrumental in setting global benchmarks of brilliance across diverse disciplines of science and technology. It has continually contributed to society by developing ideas, solutions, and innovations that empower communities and advance the welfare of humanity.

At FET, we believe that engineers are not just creators of technology — they are architects of the future. With a powerful academic foundation comprising 17 diploma programs, 34 undergraduate programs, and 14 postgraduate programs, FET offers unparalleled opportunities for learning and growth. Our strength lies in our people — an elite faculty of 800+ members, including 390+ distinguished Ph.D. degree holders or currently pursuing their doctorates — who bring passion, experience, and expertise to every classroom and laboratory.

Home to a vibrant ecosystem of 33,000+ aspiring engineers, FET ensures a 360-degree learning journey that goes beyond textbooks. Through expert talks, workshops, seminars, industrial visits, and innovation showcases, students are encouraged to explore, experiment, and engineer their own success stories.

At the Faculty of Engineering and Technology, we don't just teach engineering — we inspire innovation, ignite curiosity, and engineer the future.

VISION

To develop highly skilled professionals to man positions in the industry responding to technological and scientific advancements.

MISSION

To develop centers of excellence through establishment of state-of-the-art laboratories/ workshops which will help students learn through hands-on experience the latest advances in technology.

ABOUT THE INSTITUTE

Established in 2003, the **Parul Institute of Engineering & Technology (PIET)** stands as the flagship engineering institute of Parul University, Vadodara, Gujarat. Over the years, PIET has emerged as a symbol of excellence in technical education, fostering innovation, creativity, and global competence. Recognized among the state's premier engineering institutes, PIET offers a **diverse portfolio of 22 undergraduate and 9 postgraduate programs** spanning key disciplines such as Computer Science & Engineering, Artificial Intelligence and Data Science, Artificial Intelligence and Machine Learning, CSE–Industry Embedded Program (IEP), Cyber Security, Information Technology, Electrical, Mechanical, Civil, Aeronautical, Mathematics & Computing, and Electronics & Communication Engineering, among others.

Home to a vibrant community of **19,000+ students**, PIET takes pride in its **350+ accomplished faculty members**, including **200+ Ph.D. holders** or **pursuing their doctoral research**. This powerful academic ecosystem ensures a perfect blend of experience, expertise, and innovation in teaching and research.

The institute's state-of-the-art, technology-driven campus features advanced laboratories, smart classrooms, and an industry-oriented curriculum designed to bridge the gap between education and enterprise. Strategic collaborations with leading companies offer students hands-on exposure through internships, live projects, and industrial interactions, shaping them into future-ready professionals. Beyond academics, PIET promotes holistic growth through a thriving culture of technical fests, student clubs, research initiatives, and sports activities, cultivating leadership and teamwork skills.

PIET's commitment to quality and innovation has earned it **prestigious national and international recognitions**—including the **coveted GSIRF 5-Star Rating by the Government of Gujarat**, the **Platinum Rating in Engineering by QS I-GAUGE**, the **AAA rating as a valuable NPTEL Local Chapter**, and an **impressive rank of 43rd in India, 8th in Zone, and 3rd in Gujarat** among the Best Private Engineering Colleges by the **Indian Institutional Ranking Framework (IIRF) 2024**.

With these distinctions and its unwavering pursuit of excellence, Parul Institute of Engineering & Technology continues to redefine the standards of engineering education in India—empowering minds, shaping innovators, and engineering the future.

VISION

To be a premier institution in Engineering and Technology that fosters excellence in education and research with ethics towards inspiring and developing future technocrats.

MISSION

- To impart quality educational experience with ethical and human approach and skills to students that enables them to become successful technocrats in their chosen career.

- To nurture scientific temperament and promote research and development activities.
- To provide service to industries and communities through educational, technical and professional activities.

QUALITY POLICY

Engineering is one of the earliest forms of technical studies, which has been vital in setting up the global standard of brilliance in the various disciplines of science and innovative technology. It has also delivered innumerable assets and utilities to the society, contributing to the welfare of humanity. The Faculty of Engineering and Technology plays the central role of grooming and developing engineers and technical experts who play the role of framing lives not only in the form of technology but also in the form of life sciences. Pioneering motives are at the heart of what engineers do to approach set-backs and thereby generating remarkable new technological advances. With our elite league of faculties, we focus on developing students who have the passion and desire to serve and impact society through the use of innovative technology, along with nurtured interpersonal skills. As the Faculty of Engineering, we ensure a 360-degree learning experience to our students by providing a wide range of academic exposure which includes expert talks, seminars, workshops and industrial visits. To keep up with the ever-changing trends, we continuously create platforms where students express their engineering innovation through practical exhibitions and projects where students can learn, enhance, develop and engineer the future.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering at Parul Institute of Engineering and Technology, Parul University, Vadodara, is a dynamic and progressive department focused on quality education and innovation. It aims to build a strong foundation in computing while encouraging creativity, problem-solving, and adaptability among students.

The B.Tech program combines theory with practical learning and covers key areas such as Artificial Intelligence, Machine Learning, Data Science, Cybersecurity, Cloud Computing, and the Internet of Things. Well-equipped laboratories and modern infrastructure provide students with valuable hands on experience that connects academics with real-world applications.

The department is supported by a team of experienced faculty members who guide students in academics, research, and professional development. Students are encouraged to participate in hackathons, workshops, and internships to gain industry exposure and confidence. In addition to technical knowledge, the department focuses on developing communication, teamwork, leadership, and ethical values. Aligned with the vision and mission of Parul University, it strives to nurture competent and responsible engineers who can contribute effectively to the ever evolving world of technology.

VISION

To be recognized as a leading department for excellence in Computer Science & Engineering education and research, driving innovation and sustainable solutions that significantly contribute to societal advancement.

MISSION

- To impart quality education in the field of computer science and its allied disciplines, fostering academic excellence and lifelong learning.

- The department is committed to conducting high-quality research and promoting continuous academic development to advance knowledge and innovation in computer science.
- It also strives to cultivate ethical awareness and moral values among students, guiding them toward career success and shaping them into responsible, socially conscious, and competent professionals who contribute meaning fully to the technological and societal progress of the nation.

QUALITY POLICY

The Department of Computer Science and Engineering is committed to providing quality education that fosters innovation, technical excellence, and ethical values. We aim to equip students with strong theoretical foundations and practical skills to meet global industry standards. Through continuous learning, research, and collaboration, we strive to cultivate creativity, critical thinking, and problem-solving abilities. The department emphasizes holistic development through seminars, workshops, and industry interactions. Our goal is to produce competent professionals who contribute effectively to technology and society.

CODE OF CONDUCT

- **Academic Integrity:** All students and faculty must uphold academic honesty by avoiding plagiarism, cheating, and falsifying academic work. Assignments, projects, and exams should reflect personal effort and genuine understanding.

- **Professional Behavior:** Students, staff, and faculty are expected to exhibit professionalism in all interactions, both inside and outside the classroom, showing respect for peers, faculty, and the institution.

- **Collaboration and Teamwork:** Cooperation in team projects and lab work is essential. Students are encouraged to share knowledge and support each other, while maintaining individual responsibility for their work.

- **Respect for Diversity and Inclusivity:** Every member of the department should foster an environment of respect for diverse opinions, backgrounds, and cultures, contributing to an inclusive and supportive community.

CODE OF DISCPLINE

- **Adherence to Academic Regulations:** All students must follow the university's academic guidelines on attendance, assignment submission, and exam conduct. Regular participation in classes and timely submission of academic work are mandatory.

- **Respect for Technology and Resources:** Use of computers, software, and lab equipment should be responsible, avoiding damage or misuse of institutional resources.

RULES FOR INAPPROPRIATE BEHAVIOR

- **Academic Misconduct:** Plagiarism, cheating, or any form of dishonesty in academic work will not be tolerated.

- **Disruptive Behavior:** Any behavior that disrupts the learning environment, including bullying, harassment, or abusive language, is unacceptable.
- **Cybersecurity Violations:** Unauthorized access to university systems, sharing confidential information, or any form of cyber misconduct will be strictly prohibited.
- **Substance Abuse or Violence:** Consumption of drugs, alcohol, or any violent conduct on campus or during university-sponsored activities is grounds for disciplinary action.

DISCIPLINARY MEASURES

- **Warnings:** Minor violations of discipline may result in a verbal or written warning.
- **Probation:** Repeated offenses may lead to academic or behavioral probation, restricting participation in certain activities.
- **Suspension/Expulsion:** Severe violations or persistent misconduct can result in suspension or expulsion from the program or university.
- **Loss of Privileges:** Students may lose access to labs, events, or other university resources as a penalty for disciplinary breaches.

CODE OF CONDUCT FOR STUDENTS

- 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 behaviour 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 behaviour 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/workshops/implements/equipments...
- 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 is 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.

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 have to 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 neighbours. They should maintain cordial relations with their neighbours and shall live in harmony with them. Further, they should not indulge in any boisterous behavior such as getting into altercation with neighbours, causing disturbance to them etc... Moreover, they shall always maintain the social decorum by behaving politely, wearing appropriate attire so as to ensure the amicable living atmosphere with others.

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

HOSTEL MESS

- There shall be as many messes as required on the university premises.
- All meals, including breakfast, will be served only in the mess.
- Boarders shall have their food only in the 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 shall 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.
- Any complaints regarding the quality of food shall be brought to the notice of the concerned Rectors and the Hostel Superintendent.
- The boarders shall strictly adhere to the mess timings.

PARUL UNIVERSITY

Office of the Registrar

R/Notification-1085/2023-24 July 1, 2023

NOTIFICATION

Sub: - Constitution of Student Grievance Redressal Committee in the University
Ref: University Grants Commission (Redressal of Grievances of Students) Regulations, 2023

UGC (Redressal of Grievances of Students) Regulations, 2023 stipulate that every university shall constitute Students' Grievance Redressal Committee in the university to provide opportunities for redressal of certain grievances of students already enrolled in any institution, as well as those seeking admission to the university.

The composition of Students' Grievance Redressal Committee constituted in the university is as follows:

1. Dr.Hemant Toshikhane, Dean, Faculty of Ayurved and Principal, Parul Institute of Ayurved
   hemant.toshikhane@paruluniversity.ac.in
   (M) 8469496525 — Chairperson
2. Dr.M.N.Parmar, Dean, Faculty of Social Work and Principal, Parul Institute of Social Work
   mnp.msu@gmail.com
   (M) 9824064291 — Member
3. Dr.Guno Chakraborty, Principal, Parul Institute of Pharmacy and Research
   g.chakraborthy19159@paruluniversity.ac.in
   (M)8800978930 — Member
4. Dr.Mehul Jadav, Principal, Parul Institute of Physiotherapy and Research
   piptr@paruluniversity.ac.in
   (M) 9825314847 — Member
5. Dr.Rekha M.Parmar, Professor, Parul Institute of Ayurved
   rekha.parmar@paruluniversity.ac.in
   (M) 9724306523 — Member
6. Susri. Khushi Singh, second year student of B.Sc in Microbiology, Parul Institute of Applied Sciences
   khushisinghrajput1210@gmail.com; (M) 6359826234 — Member
7. Shri.Umrao Singh Rathore, second year student in Parul Institute of Design
   heavenartworkk@gmail.com ; (M) 8290583206 — Member
8. Shri.Dhruvil Shah, Dean, Students' Welfare
   dsw@paruluniversity.ac.in (M) 7574809590 — Member Convener

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;
- harassment 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).

ANTI-RAGGING COMMITTEE & SQUAD MEMBERS

Name of College: Parul Institute of Engineering & Technology
Address: At Post-Limda, Ta-Waghodia and Dist. Vadodara
Phone No: 02668-260204, Fax No: 02668-260201
Web Site: www.paruluniversity.ac.in
Email ID: piet@paruluniversity.ac.in
Principal: Dr. Vipul Vekariya

(a) Anti Ragging Committee

Sr. No.	Name of the Committee Members with their Current Designation	Role in the Committee	Mobile No. and Office Landline Number	Email ID
1	Dr. Vipul Vekariya (HOI)	Chairman	9909459540, 02668260204	piet@paruluniversity.ac.in
2	Dr. Babita Chaube (Campus Director)	Member	8140745181, 02668260313	babita.chaube@paruluniversity.ac.in
3	Dr. Mehul Gor (Vice-Principal)	Member	9428222405, 02668260226	viceprincipal.piet@paruluniversity.ac.in
4	Dr. Shailendra K Mishra (HOD- CSE)	Member	9601492380, 02668260331	pietcomputerhod@paruluniversity.ac.in
5	Dr. Kamal Sutariya (HOD-CSE- AIML)	Member	9428232881, 02668260331	pietaimlhod@paruluniversity.ac.in
6	Dr. Ankita Gandhi (HOD-CSE- IEP)	Member	9924302839	pietcseiephod@paruluniversity.ac.in
7	Dr. Daxa Vekariya (HOD-CSE- CYBER)	Member	9909969540	pietcyberhod@paruluniversity.ac.in
8	Dr. Sanjay Agal (HOD-CSE- AIDS)	Member	9928292870	pietaidshod@paruluniversity.ac.in
9	Dr. Pooja Sapra (HOD-IT)	Member	9582888389, 02668260385	pietithod@paruluniversity.ac.in
10	Prof. Imran Molvi (HOD-ME)	Member	9825525985 02668-260341	pietmechanicalhod@paruluniversity.ac.in
11	Dr. Komal Mehta (HOD-CV)	Member	9870090661, 02668-260339	pietcivilhod@paruluniversity.ac.in
12	Prof. Rital Gajjar(HOD-EE)	Member	9427941055, 02668-260340	pietelectricalhod@paruluniversity.ac.in
13	Dr. Kalpesh Jadav(HOD-EC)	Member	9825837081, 02668-260345	pietechod@paruluniversity.ac.in
14	Dr. L. Balaji (HOD-AERO)	Member	9790115696, 02668-260318	pietaeronauticalhod@paruluniversity.ac.in
15	Dr. Mrudul Jani (HOD-ASH)	Member	9978929413	pietappliedscienceshod@paruluniversity.ac.in
16	Prof. Anil Patel (Sr. Faculty – CSE)	Member	9426890330	anilkumar.patel2986@paruluniversity.ac.in

17	Prof. Sapna Bhimajiyani (Sr. Faculty – IT)	Member	95272 26940	SAPNA.BHIMAJIYANI35053@paruluniversity.ac.in
18	Prof. Purvesh Patel (Sr. Faculty – MECH)	Member	9428303895	purvesh.patel@paruluniversity.ac.in
19	Prof.Darshit Shah (Sr. Faculty – CV)	Member	9724134657	darshit.shah30367@pauluniversitty.ac.in
20	Prof. Zankhna joshi (Sr. Faculty – EE)	Member	9624597982	zankhana.joshi41983@paruluniversity.ac.in
21	Prof. Hardik Patel (Sr. Faculty – EC)	Member	9904464655	hardik.patel21577@paruluniversity.ac.in
22	Prof.D.Naveen (Sr. Faculty – AERO)	Member	8686591855	Naveen.dubbaka35527@paruluniversity.ac.in
23	Dr. Rakeshkumar Mishra (Sr. Faculty – ASH)	Member	9473122585	rakeshkumar.mishra12731@paruluniversity.ac.in
24	Mr. Niraj Bhatt (Non-Teaching Staff)	Member	8141562095	niraj.bhatt@paruluniversity.ac.in
25	Kumari Vidhi (Fourth Year CSE Student)	Member	9472467799	mittalvidhi0704@gmail.com
26	Sompalli Manoj Kumar (Third Year CSE Student)	Member	9346853830	2303031241281@paruluniversity.ac.in
27	Mr.Ravi Kumar Shah B.Tech CSE 2nd Year (Parents of Student)	Member	9558809275	shahravi8707@gmail.com
28	Mr. N.S. Babu B.Tech IT 4th Year (Parents of Studnents)	Member	7567280574	suribabunaduri@gmail.com
29	Smt. Swati S. Bedekar, Representative of NGO,Vatsalya Foundation, 15/ Vrindavan Estate, Pashabhai Patel Park, Race Course, Vadodara-390007	Member	9824058675	swatibedekar@gmail.com
30	Mr. Som Bhai Head Constable	Member	9909757424	----

(b) Anti-Ragging Squads

Sr. No.	Name of the Committee Members with their Current Designation	Role in the Committee	Mobile No. and Office Landline Number	Email ID
1	Dr. Chaitanya Limberkar (Sr. Faculty – ASH)	Member	9974296555	chaitanya.limberkar36481@paruluniversity.ac.in
2	Dr.Setulaxmi Narayanan (Sr. Faculty – ASH)	Member	9663741986	sethulakshmi.narayanan41540@paruluniversity.ac.in
3	Dr. Mahtab (Sr. Faculty – CSE-AIML)	Member	9911034271	mahtab.alam40472@paruluniversity.ac.in
4	Prof. Bilal Khan Pathan (Sr. Faculty – CSE- Core)	Member	9021196538	bilalkhan.pathan29127@paruluniversity.ac.in
5	Prof. Vishal Singh (Sr. Faculty – CSE-Core)	Member	7633872665	vishal.singh39772@paruluniversity.ac.in
6	Dr. Mukesh Patidar (Sr. Faculty – CSE-Cyber)	Member	9770435369	mukesh.patidar34885@paruluniversity.ac.in
7	Ms. Parita Sodagar (Non-Teaching Staff)	Member	9099993938	parita.sodagar144008@paruluniversity.ac.in
8	Dev Solanki (Fourth Year CSE Student)	Member	9313334741	devsolanki8347706744@gmail.com
9	Bhoomika.m (Second Year CSE CloudStudent)	Member	9686869359	2403031300002@paruluniversity.ac.in
10	Abhishek Maram (Second Year CSE AIDS Student)	Member	9725941588	2403031590001@paruluniversity.ac.in

DETAILS ABOUT NEP-2020

From an engineering perspective, the National Education Policy 2020 (NEP 2020) brings several key changes aimed at enhancing the quality and flexibility of engineering education in India:

- Multidisciplinary Approach: Engineering programs will integrate arts, humanities, and social sciences to foster holistic education and innovation.
- Flexible Curriculum: Introduction of flexible course structures with multiple entry and exit options, including certificates, diplomas, and degrees.
- Research and Innovation: Establishment of a National Research Foundation to promote research and innovation in engineering and technology.
- Focus on Practical Skills: Emphasis on experiential learning, internships, and industry partnerships to bridge the gap between theoretical knowledge and practical application.
- Teacher Training: Continuous professional development programs for engineering faculty to keep them updated with the latest advancements in technology and pedagogy.

ABOUT THE PROGRAM

PROGRAM EDUCATIONAL OBJECTIVES

The statements below indicate the career and professional achievements that the B.Tech. Computer science engineering curriculum enables graduates to attain.

PEO 1: Pursue successful career in engineering involving professional knowledge and skills for analysis, design and solution of real time engineering problems.

PEO 2: Excel in professional career with sound fundamental knowledge and pursue life- long learning including higher education and research.

PEO 3: Demonstrate interpersonal skills, leadership ability and team building to achieve organization goals and serve society with professional ethics and integrity.

PROGRAM LEARNING OUTCOMES

PLO 1	**Engineering knowledge**	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PLO 2	**Problem analysis**	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.
PLO 3	**Design/development of solutions**	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.
PLO 4	**Conduct investigations of complex problems**	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.
PLO 5	**Modern tool usage**	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.
PLO 6	**The engineer and society**	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.
PLO 7	**Ethics**	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PLO 8	**Individual and team work**	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PLO 9	**Communication**	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.
PLO 10	**Project management and finance**	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.
PLO 11	**Life-long learning**	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

PSO 1	**Innovative Solution Design**	Design solutions that meet current industrial requirements and align with recent technological advancements.
PSO 2	**Technical Proficiency and System Analysis**	Test and analyze systems using appropriate software tools and techniques to model and optimize system performance.

ACADEMIC CALENDAR 2025-26

Sr. No.	Events	Date
1	Commencement of Semester	24th November, 2025
2	Weekly Exam	Every Saturday from 27th December 2025 to 31st January 2026
3	Mid-Sem Exam	9th February 2026
4	Mid-Sem Result Declaration	23rd February 2026
5	Teaching End	28th March, 2026
6	End Sem Practical Exam	30th March to 11th April, 2026
7	End Sem Theory Exam	13th April to 25th April, 2026
8	End Sem Supplementary Exam	27th April 2026 Onwards
9	Parent Teaching Meeting	29th December 2025 to 2nd January 2026 23rd February 2025 to 7th March 2026
10	Semester Break	26th April to 7th June 2026
11	Commencement of Odd Sem 2026-27	8th June 2026

LIST OF HOLIDAYS

PARUL UNIVERSITY

List of Holidays for Jan – June 2026

Sr. No	DATE	NAME OF FESTIVAL
1	25 December 2025	Christmas
2	14 January 2026	Makar Sakranti
3	15 January 2026	Makar Sakranti 2nd Day
4	26 January 2026	Republic Day
5	05 March 2026	Dhuleti
6	20 March 2026	Eid-ul-Fitra
7	26 March 2026	Ram Navami
8	31 March 2026	Mahavir Janm Kalyanak
9	14 April 2026	Baba Saheb Ambedkar Jayanti

Faculty of Engineering & Technology

Parul® University — NAAC A++ Accredited University

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 Makar 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 Tech Expo	04 Tech Expo	05	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 Dhuleti	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-Fitra	21 TW Submission
18	23	24	25	26 Ram Navami	27	28 Teaching End
19 Mar/Apr	30 ESE (Practical)	31 Mahavir Janma Kalyanak	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

Weekly/Mid-Sem/University Exam Schedule

- **Weekly Examination** will be conducted every Saturday 27th December 2025 onwards.
- **Mid Sem Exam** will be conducted from 9th February to 14th February 2026.
- **Internal Term Work** Submission will be conducted from 16th March to 21st March 2026.
- **External Practical Exam** will be conducted from 30th March 2026 to 11th April 2026.
- **External Theory Exam** will be conducted from 13th April 2026 to 25th April 2026.

WEEKLY EXAM SCHEDULE

Date	Time	Subject
27-12-2025	7.30 pm to 08.00 pm	Weekly-1
03-01-2026	7.30 pm to 08.00 pm	Weekly -2
10-01-2026	7.30 pm to 08.00 pm	Weekly -3
17-01-2026	7.30 pm to 08.00 pm	Weekly -4
24-01-2026	7.30 pm to 08.00 pm	Weekly -5
31-01-2026	7.30 pm to 08.00 pm	Weekly -6

Time-Table

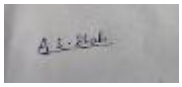
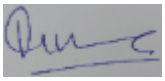
PARUL UNIVERSITY		
FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY		
INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY		
ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR	
SEMESTER: 6th	**LEVEL:** UG	**Effective from: 24-11-25**
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION: 6CSE1**	

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE1:QR:RNS:D-320	LIBRARY/SELF STUDY	6CSE1:ES:AZ:D-320	CODE CHEF	6CSE1:CD:SU:D-320	6CSE1:ML:NA:D-320
10:25 to 11:20	6CSE1:CD:SU:D-320		6CSE1:MAD:GN:D-320		6CSE1:MEARN:JH:D-320	6CSE1:MAD:GN:D-320
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE1:MEARN:JH:D-320	6CSE1:CD:SU:D-320	6CSE1:QR:RNS:D-320	CODE CHEF	LIBRARY/SELF STUDY	LIBRARY/SELF STUDY
01:15 to 02:10		6CSE1:MEARN:JH:D-320	6CSE1:MEARN:JH:D-320			
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE1:ML:NA:D-320	6CSE1:CD:SU:D-320	6CSE1:MAD:GN:D-320	CODE CHEF	6CSE1:ML:NA::D-320	6CSE1:ML:NA:D-320
03:25 to 04:20	6CSE1:MAD:GN:D-320				6CSE1:QR:RNS:D-320	

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	NA	Dr. Nithya Arumugam	Nithy_A40174@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	NA	Dr. Nithya Arumugam	Nithy_A40174@paruluniversity.ac.in
303105349	CD	Compiler Design	SU	Prof. SHUBHAM UPADHYAY	Shubham Upadhyay33477@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	SU	Prof. SHUBHAM UPADHYAY	Shubham Upadhyay33477@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	JH	Mr. Jazeel Ui Haq	jazeelulhaq2@gmail.com
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	JH	Mr.. Jazeel Ui Haq	jazeelulhaq2@gmail.com

303105311	QR	Quant, and Reasoning	RNS	Mr. Rajesh Narendra Salvi	Rajesh.Salvi40809@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303193353	ES	Employability Skills	AZ	DR. ALIZEHRA RAZA	alizehra.raza19436@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Mrs. RUPA SATISH BHATT** **rupa.purohit@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**D-320**		

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

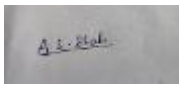
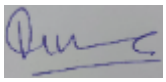
ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR
SEMESTER: 6th	**LEVEL:** UG
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE2

Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE2:CD:AM:D-402	6CSE2:ML:NP:D-320	CODE CHEF	6CSE2:CD:AM:D-320	LIBRARY/SELF STUDY	6CSE2:QR:HKT:D-402
10:25 to 11:20	6CSE2:MEARN:JH:D-402	6CSE2:CD:AM:D-320				6CSE2:ES:MM:D-402
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	LIBRARY/SELF STUDY	6CSE2:MEARN:JH:D-402	CODE CHEF	LIBRARY/SELF STUDY	6CSE2:MEARN:D-320	6CSE2:ML:NP:D-320
01:15 to 02:10		6CSE2:QR:HKT:D-402				6CSE2:MEARN:JH:D-320
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE2:QR:HKT:D-402	6CSE2:MAD:GN:D-402	CODE CHEF	6CSE2:ML:NP:D-320	6CSE2:ML:NP:D-402	6CSE2:MAD:GN:D-402
03:25 to 04:20	6CSE2:MAD:GN:D-402	6CSE2:MAD:GN:D-402				

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105349	CD	Compiler Design	AM	Prof. Amit Kumar	amitkumar.rajpoot33412@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	AM	Prof. Amit Kumar	amitkumar.rajpoot33412@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	JH	Mr. Jazeel UI Haq	jazeelulhaq2@gmail.com
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	JH	Mr. Jazeel UI Haq	jazeelulhaq2@gmail.com
303105311	QR	Quant, and Reasoning	HKT	Ms. Hiral Tadvi	hiral.tadvi26109@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303193353	ES	Employability Skills	MM	Ms. Mohini Macwan	mohini.macwan20067@paruluniversity.ac.in

LAB/ TUTORIAL LOCATION:	**D-320,D-420**	**MFT / FACULTY REPRESENTATIVE**	**RASHMI PAL rashmi.pal39925@paruluniversity.ac.in**

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR
SEMESTER: 6th	**LEVEL:** UG
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE3

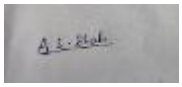
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	CODE CHEF	6CSE3:ML:KZ:D-402	6CSE3:QR:HKT:D-402	6CSE3:MAD:GN:D-402	6CSE3:ES:PC:D-402	6CSE3:MEARN:JH:D-403
10:25 to 11:20		6CSE3:CD:VK:D-402	6CSE3:MAD:GN:D-402		6CSE3:QR:HKT:D-402	6CSE3:QR:HKT:D-403
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	CODE CHEF	LIBRARY/SELF STUDY	6CSE3:CD:VK:D-402	6CSE3:MEARN:JH:D-320	6CSE3:MEARN:JH:D-402	6CSE3:CD:VK:D-402
01:15 to 02:10				6CSE3:MAD:GN:D-320		6CSE3:ML:KZ:D-402
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	CODE CHEF	6CSE3:MEARN:JH:D-403	6CSE2:ML:KZ:D-402	6CSE3:CD:VK:D-402	LIBRARY/SELF STUDY	LIBRARY/SELF STUDY
03:25 to 04:20		6CSE3:MAD:GN:D-403		6CSE3:ML:KZ:D-402		

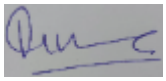
SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	ASK	Prof. ALOK SINGH KUSHWAHA	ALOK.KUSHWAHA35214@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	ASK	Prof. ALOK SINGH KUSHWAHA	ALOK.KUSHWAHA35214@paruluniversity.ac.in

303105349	CD	Compiler Design	VK	Dr. VIKRAM BABULAL KAUSHIK	vikram.kaushik40608@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	VK	Dr. Vikram Babulal Kaushik	vikram.kaushik40608@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	JH	Mr. Jazeel Ui Haq	jazeelulhaq2@gmail.com
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	JH	Mr. Jazeel Ui Haq	jazeelulhaq2@gmail.com
303105311	QR	Quant, and Reasoning	HKT	Ms. Hiral Tadvi	hiral.tadvi26109@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303193353	ES	Employability Skills	PC	Ms. Pratima Chaudhari	pratimaben.chaudhari35891@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Ms. Dhruvi Acharya dhruvi.acharya36195@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**D-402,D-403,D-320**		



SIGN
Prof. Ami Shah
Time Table Coordinator



SIGN & SEAL
Dr. Shailendra Mishra
Head of Department

SIGN & SEAL
Prof. (Dr.) Vipul Vekariya
Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

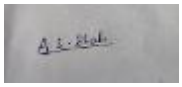
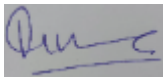
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE4

Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	LIBRARY/SELF STUDY	6CSE4:MEARN:JH:D-403	6CSE4:CD:PN:D-403	LIBRARY/SELF STUDY	6CSE4:MAD:GN:D-403	CODE CHEF
10:25 to 11:20		6CSE4:QR:HKT:D-403	6CSE4:ML:YVD-403		6CSE4:ES:SB:D-403	6CSE3:QR:HKT:D-403
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE4:ML:YV:D-402	6CSE4:ML:YV:D-403	6CSE4:MEARN:JH:D-403	6CSE4:MEARN:JH:D-402	LIBRARY/SELF STUDY	CODE CHEF
01:15 to 02:10	6CSE4:CD:PN:D-402		6CSE4:QR:HKT:D-403			
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE4:MEARN:JH:D-403	6CSE4:MAD:GN:D-419	6CSE4:MAD:GN:D-403	6CSE4:CD:PN:D-403	6CSE4:CD:PN:D-403	CODE CHEF
03:25 to 04:20	6CSE4:QR:HKT:D-403		6CSE4:MAD:GN:D-403	6CSE4:ML:YV:D-403		

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	YV	Prof. Yashvi Vegad	yashviben.vegad39987@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	YV	Prof. Yashvi Vegad	yashviben.vegad39987@paruluniversity.ac.in
303105349	CD	Compiler Design	PN	Prof. Patel Namrata	Namrata.patel390002@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	PN	Prof. Patel Namrata	Namrata.patel390002@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	JH	Mr. Jazeel Ui Haq	jazeelulhaq2@gmail.com
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	JH	Mr. Jazeel Ui Haq	jazeelulhaq2@gmail.com
303105311	QR	Quant, and Reasoning	HKT	Ms. Hiral Tadvi	hiral.tadvi26109@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GN	Ms. Gauri Nandan	gauri.upreti40699@paruluniversity.ac.in
303193353	ES	Employability Skills	SB	Mr. Santosh Bhagat	santosh.bhagat24268@paruluniversity.ac.in

LAB/ TUTORIAL LOCATION:	D-403,D-419	MFT / FACULTY REPRESENTATIVE	Prof. ANKITA SAXENA ankita.saxena38832@paruluniversity.ac.in

 SIGN Prof. Ami Shah Time Table Coordinator	 SIGN & SEAL Dr. Shailendra Mishra Head of Department	 SIGN & SEAL Prof. (Dr.) Vipul Vekariya Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

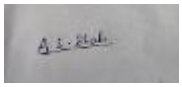
ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR
SEMESTER: 6th	**LEVEL:** UG
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE5

Effective from: 24-11-25

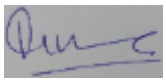
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	LIBRARY/SELF STUDY	CODE CHEF	6CSE5:CD:RS:D-419	6CSE5:MEARN:SK:D-403	LIBRARY/SELF STUDY	6CSE5:MAD:AU:D-419
10:25 to 11:20			6CSE5:MEARN:SK:D-419	6CSE5:QR:HKT:D-403		6CSE5:MAD:AU:D-419
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE5:CD:RS:D-403	CODE CHEF	6CSE5:MAD:AU:D-419	6CSE5:MAD:AU:D-403	6CSE5:MEARN:SK:D-403	6CSE5:ML:KA:D-403
01:15 to 02:10				6CSE5:ES:KT:D-403		
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE5:ML:KA:D-403	CODE CHEF	6CSE5:ML:KA:D-419	LIBRARY/SELF STUDY	6CSE5:CD:RS:D-419	6CSE5:MEARN:SK:D-403
03:25 to 04:20	6CSE5:CD:RS:D-403		6CSE5:QR:HKT:D-419		6CSE5:ML:KA:D-419	6CSE5:QR:HKT:D-403

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	ASK	Prof. Alok Singh Kushwaha	ALOK.KUSHWAHA35214@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	ASK	Prof. Alok Singh Kushwaha	ALOK.KUSHWAHA35214@paruluniversity.ac.in
303105349	CD	Compiler Design	RS	Prof. Rahul Singh	rahul.kumar39964@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	RS	Prof. Rahul Singh	rahul.kumar39964@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	HKT	Ms. Hiral Tadvi	hiral.tadvi26109@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303105380	MAD LAB	Mobile Application Development Laboratory	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303193353	ES	Employability Skills	KT	Mr. Karmesh Thakkar	karmesh.thakkar27107@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Sanjay Pagare sanjay.pagare36802@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**D-403,D-419**		



SIGN
Prof. Ami Shah
Time Table Coordinator



SIGN & SEAL
Dr. Shailendra Mishra
Head of Department

SIGN & SEAL
Prof. (Dr.) Vipul Vekariya
Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

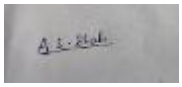
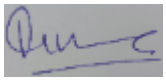
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE6

Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE6:CD:TV:D-419	6CSE6:MAD:AU:D-419	6CSE6:ES:KT:D-420	6CSE6:ML:NM:D-419	CODE CHEF	LIBRARY/SELF STUDY
10:25 to 11:20	6CSE6:QR:FPP:D-419		6CSE6:QR:FPP:D-420	6CSE6:CD:TV:D-419		
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE6:MEARN:SK:D-419	6CSE6:ML:NM:D-419	6CSE6:CD:TV:D-420	LIBRARY/SELF STUDY	CODE CHEF	6CSE6:MEARN:SK:D-419
01:15 to 02:10	6CSE6:MAD:AU:D-419	6CSE6:MEARN:SK:D-419				6CSE6:MAD:AU:D-419
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE6:ML:NM:D-419	LIBRARY/SELF STUDY	6CSE6:MAD:AU:D-420	6CSE6:MEARN:SK:D-419	CODE CHEF	6CSE6:ML:NM:D-419
03:25 to 04:20			6CSE6:QR:FPP:D-420			6CSE6:CD:TV:D-419

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	NM	Dr. Nitin Mishra	nitin.mishra37365@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	NM	Dr. Nitin Mishra	nitin.mishra37365@paruluniversity.ac.in
303105349	CD	Compiler Design	TV	Ms. Tandra Vennela	vennela.tandra35379@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	TV	Ms. Tandra Vennela	vennela.tandra35379@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	FPP	Ms. Falguni Parekh	falguni.parekh35618@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303105380	MAD LAB	Mobile Application Development Laboratory	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303193353	ES	Employability Skills	KT	Mr. Karmesh Thakkar	karmesh.thakkar27107@paruluniversity.ac.in

LAB/ TUTORIAL LOCATION:	D-420,D-419	MFT / FACULTY REPRESENTATIVE	Prof. Zulkifl Khairoowala zulkifl.khairoowala40439@parulunivesity.ac.in

 SIGN Prof. Ami Shah Time Table Coordinator	 SIGN & SEAL Dr. Shailendra Mishra Head of Department	 SIGN & SEAL Prof. (Dr.) Vipul Vekariya Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

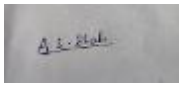
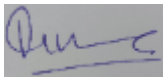
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE7

Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE7:CD:NP:D-420	LIBRARY/SELF STUDY	CODE CHEF	6CSE7:MEARN:SK:D-420	6CSE7:MEARN:SK:D-419	6CSE7:ML:SS:D-420
10:25 to 11:20					6CSE7:CD:NP:D-419	6CSE7:CD:NP:D-420
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE7:MEARN:SK:D-420	6CSE7:ML:SS:D-420	CODE CHEF	6CSE7:ML:SS:D-419	6CSE7:ML:APS:D-419	6CSE7:MEARN:SK:D-420
01:15 to 02:10	6CSE7:QR:DS:D-420	6CSE7:MAD:AU:D-420		6CSE7:CD:NP:D-419		6CSE7:QR:DS:D-420
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE7:ES:SC:D-420	6CSE7:QR:DS:D-420	CODE CHEF	LIBRARY/SELF STUDY	LIBRARY/SELF STUDY	6CSE7:MAD:AU:D-420
03:25 to 04:20	6CSE7:MAD:AU:D-420	6CSE7:MAD:AU:D-420				

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	ML	Dr. Saurabh Shah	Saurabh.shah37287@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	ML LAB	Prof. Arunesh Pratap Singh	arunesh.singh32826@paruluniversity.ac.in
303105349	CD	Compiler Design	CD	Prof. Nidhi Pandey	nidhi.pande38091@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	CD LAB	Prof. Nidhi Pandey	nidhi.pande38091@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	MEARN	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	MEARN LAB	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	QR	Mr. Dhananjay Shahani	dhananjay.sahani36616@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	MAD	Mr. Akash Umagugale	akashugale8554@gmail.com
303105380	MAD LAB	Mobile Application Development Laboratory	MAD LAB	Mr. Akash Umagugale	akashugale8554@gmail.com
303193353	ES	Employability Skills	ES	Mr. Shivani Choursia	Shivani.Kumari36832@paruluniversity.ac.in

LAB/ TUTORIAL LOCATION:	D-420.D-419	MFT / FACULTY REPRESENTATIVE	Prof. Kalpana Reddy (EC) kalpana.reddy28872@paruluniversity.ac.in

 SIGN Prof. Ami Shah Time Table Coordinator	 SIGN & SEAL Dr. Shailendra Mishra Head of Department	 SIGN & SEAL Prof. (Dr.) Vipul Vekariya Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE8

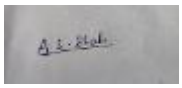
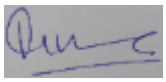
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	LIBRARY/SELF STUDY	6CSE8:ML:RG:D-420	CODE CHEF	LIBRARY/SELF STUDY	6CSE8:CD:PR:D-420	6CSE8:MAD:AU:D-425
10:25 to 11:20		6CSE8:CD:PR:D-420			6CSE8:QR:FPP:D-420	6CSE8:ES:PT:D-425
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE8:CD:PR:D-425	6CSE8:MEARN:SK:D-425	CODE CHEF	6CSE8:ML:RG:D-420	6CSE8:MAD:AU:D-420	LIBRARY/SELF STUDY
01:15 to 02:10	6CSE8:MEARN:SK:D-425			6CSE8:MEARN:SK:D-420	6CSE8:QR:FPP:D-420	
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE8:ML:RG:D-425	6CSE8:MAD:AU:D-425	CODE CHEF	6CSE8:CD:PR:D-420	6CSE8:MEARN:SK:D-420	6CSE8:ML:RG:D-425
03:25 to 04:20					6CSE8:MAD:AU:D-420	6CSE8:QR:FPP:D-425

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
3031053533	ML	Machine Learning	NA	Dr. Nithya Arumugam	NITHY_A40174@paruluniversity.ac.in
3031053534	ML LAB	Machine Learning Laboratory	NA	Dr. Nithya Arumugam	NITHY_A40174@paruluniversity.ac.in

303105349	CD	Compiler Design	PR	Prof. Pal Rashmi	rashmi.pal39925@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	PR	Prof. Pal Rashmi	rashmi.pal39925@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	SK	Prof. Shubham Kumar	shubham.kumar40635@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	FPP	Ms. Falguni Parekh	falguni.parekh35618@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303105380	MAD LAB	Mobile Application Development Laboratory	AU	Mr. Akash Umagugale	akashugale8554@gmail.com
303193353	ES	Employability Skills	PT	Prof. Poonam Thaker	poonam.thaker26707@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. Sanjay Pagare sanjay.pagare36802@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**D-420,D-425**		

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR
SEMESTER: 6th	**LEVEL:** UG
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE9

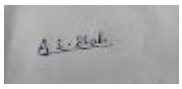
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	CODE CHEF	6CSE9:CD:NP:D-425	6CSE9:MAD:GP:D-425	6CSE9:ML:HT:D-425	LIBRARY/SELF STUDY	6CSE9:QR:RNS:A-204
10:25 to 11:20		6CSE9:ES:SC:D-425		6CSE9:MEARN:RK:D-425		6CSE9:CS:HT:A-204
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	CODE CHEF	6CSE9:ML:HT:A-204	6CSE9:MEARN:RK:D-425	6CSE9:ML:HT:D-425	6CSE9:MEARN:RK:D-425	6CSE9:CD:NP:D-425

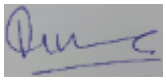
01:15 to 02:10		6CSE9:QR:RNS:A-204			6CSE9:MAD:GP:D-425	
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	CODE CHEF	LIBRARY/SELF STUDY	6CSE9:MEARN:RK:D-425	6CSE9:CD:NP:D-425	6CSE9:CD:NP:D-425	LIBRARY/SELF STUDY
03:25 to 04:20			6CSE9:MAD:GP:D-425	6CSE9:MAD:GP:D-425	6CSE9:QR:RNS:D-425	

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	HT	Prof. Himanshu Tiwari	Himanshu.tiwari37802@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	HT	Prof. Himanshu Tiwari	Himanshu.tiwari37802@paruluniversity.ac.in
303105349	CD	Compiler Design	NP	Prof. Nidhi Pandey	nidhi.pande38091@parulunivers ity.ac.in
303105350	CD LAB	Compiler Design laboratory	NP	Prof. Nidhi Pandey	nidhi.pande38091@parulunivers ity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	RNS	Mr. Rajesh Narendra Salvi	Rajesh.Salvi40809@parulunivers ity.ac.in
303105379	MAD	Mobile Application Development	GP	Mr. Gaurav Pimplekar	Gaurav.Pimlekar40630@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GP	Mr. Gaurav Pimplekar	Gaurav.Pimlekar40630@paruluniversity.ac.in
303193353	ES	Employability Skills	SC	Ms. Shivani Chourasia	Shivani.kumari36832@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. Harsh Pateliya harsh.pateliya36741@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**D-425,D-420**		



SIGN
Prof. Ami Shah
Time Table Coordinator



SIGN & SEAL
Dr. Shailendra Mishra
Head of Department

SIGN & SEAL
Prof. (Dr.) Vipul Vekariya
Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE10

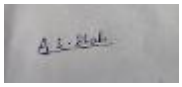
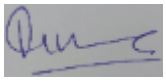
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	CODECHEF	6CSE10:MEARN: RK:A-204	6CSE10:MEARN:RK:A-204	LIBRARY/SELF STUDY	6CSE10:MEARN: RK:D-425	LIBRARY/SELF STUDY
10:25 to 11:20			6CSE10:MAD:GP:A-204		6CSE10:MAD:GP: D-425	
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	CODECHEF	LIBRARY/SELF STUDY	6CSE10:QR:DS:A-204	6CSE10:ML:NP:A -204	6CSE10:CD:NP:A -204	6CSE10:ML:NP:A -204
01:15 to 02:10			6CSE10:ES:SB:A-204	6CSE10:CD:NP:A -204		
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	CODECHEF	6CSE10:ML:NP:A -204	6CSE10:CD:NP:A-204	6CSE10:MAD:GP: A-204	6CSE10:ML:NP:A -204	6CSE10:CD:NP:A -204
03:25 to 04:20		6CSE10:MEARN: RK:A-204	6CSE10:MAD:GP:A-204		6CSE10:QR:DS:A-204	6CSE10:QR:DS:A -204

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105349	CD	Compiler Design	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	NP	Prof. Nidhi Patel	nidhi.patel270183@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in

303105311	QR	Quant, and Reasoning	DS	Mr. Dhananjay Shahani	dhananjay.sahani36616@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GP	Mr. Gaurav Pimplekar	Gaurav.Pimplekar40630@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GP	Mr. Gaurav Pimplekar	Gaurav.Pimplekar40630@paruluniversity.ac.in
303193353	ES	Employability Skills	SB	Mr. Santosh Bhagat	santosh.bhagat24268@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. Rajul Shah (EE) rajul.shah@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**A-204**		

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR
SEMESTER: 6th	**LEVEL:** UG
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE11

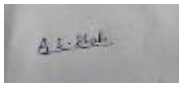
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	**6CSE11:MEARN:RK :D-425**	CODECHEF	6CSE11:CD:SU:A-209	6CSE11:MEARN:RK :A-204	6CSE11:ML:SP:A-204	LIBRARY/SELF STUDY
10:25 to 11:20	**6CSE11:ML:SP:D-425**		6CSE11:ML:SP:A-209	6CSE11:ES:MM:A-204	6CSE11:QR:RNS:A-204	
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	LIBRARY/SELF STUDY	CODECHEF	6CSE11:MAD:GP:A-205	6CSE11:ML:SP:A-209	6CSE11:CD:SU:A-209	6CSE11:MEARN:RK:A-209
01:15 to 02:10			6CSE11:MEARN:RK:A-205		6CSE11:MAD:GP:A-209	
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE11:MAD:GP:A-204	CODECHEF	6CSE11:QR:RNS:A-205	6CSE11:MAD:GP:A-	LIBRARY/SE	6CSE11:CD:SU:A-

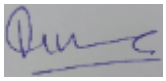
03:25 to 04:20	6CSE11:QR:RNS:A-204		6CSE11:CD:SU:A-205	205	LF STUDY	209

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
3031053533	ML	Machine Learning	SP	Prof. Sanjay Pagare	sanjay.pagare36802@paruluniversity.ac.in
3031053534	ML LAB	Machine Learning Laboratory	SP	Prof. Sanjay Pagare	sanjay.pagare36802@paruluniversity.ac.in
3031053449	CD	Compiler Design	SU	Prof. Shubham Upadhyay	shubham.kumar40635@paruluniversity.ac.in
3031053500	CD LAB	Compiler Design laboratory	SU	Prof. Shubham Upadhyay	shubham.kumar40635@paruluniversity.ac.in
3031053885	MEARN	MEA(R)N Stack Web Development	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
3031053886	MEARN LAB	MEA(R)N Stack Web Development Laboratory	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	RNS	Mr. Rajesh Narendra Salvi	RAJESH.SALVI40809@paruluniversity.ac.in
3031053779	MAD	Mobile Application Development	GP	Mr. Gaurav Pimplekar	Gaurav.Pimlekar40630@paruluniversity.ac.in
3031053880	MAD LAB	Mobile Application Development Laboratory	GP	Mr. Gaurav Pimplekar	Gaurav.Pimlekar40630@paruluniversity.ac.in
3031933533	ES	Employability Skills	MM	Ms. Mohini Macwan	mohini.macwan20067@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. Manju Yadav (EC) manju.yadav270110@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**A-204,A-205**		



SIGN
Prof. Ami Shah
Time Table Coordinator



SIGN & SEAL
Dr. Shailendra Mishra
Head of Department

SIGN & SEAL
Prof. (Dr.) Vipul Vekariya
Principal / Dean

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE12

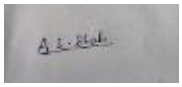
Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE12:MAD:GP:A-204	6CSE12:MERAN:RK:A-205	CODECHEF	6CSE12:MEARN:RK:A-205	6CSE12:MERAN:RK:A-	6CSE12:CD:AK:A-209

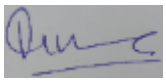
10:25 to 11:20	6CSE12:ML:APS:A-204	6CSE12:QR:FPP:A-205		6CSE12:QR:FPP:A-205	205	6CSE12:MAD:GP:A-209
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE12:MAD:GP:A-204	6CSE12:CD:AK:A-205	CODECHEF	6CSE12:ML:APS:A-205	6CSE12:CD:AK:A-205	LIBRARY/SELF STUDY
01:15 to 02:10		6CSE12:MAD:GP:A-205		6CSE12:CD:AK:A-205		
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	LIBRARY/SELF STUDY	6CSE12:ML:APS:A-205	CODECHEF	LIBRARY/SELF STUDY	6CSE12:MEARN:RK:A-205	6CSE12:QR:FPP:A-205
03:25 to 04:20					6CSE12:ES:SB:A-205	6CSE12:ML:APS:A-205

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	APS	Prof. Arunesh Pratap Singh	arunesh.singh32826@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	APS	Prof. Arunesh Pratap Singh	arunesh.singh32826@paruluniversity.ac.in
303105349	CD	Compiler Design	AM	Prof. Amit Kumar	amitkumar.rajpoot33412@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	AM	Prof. Amit Kumar	amitkumar.rajpoot33412@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	RK	Mr. Ranjith Kumar	ranjith.kumar40624@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	FPP	Ms. Falguni Parekh	falguni.parekh35618@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	GP	Mr. Gaurav Pimplekar	Gaurav.Pimplekar40630@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	GP	Mr. Gaurav Pimplekar	Gaurav.Pimplekar40630@paruluniversity.ac.in
303193353	ES	Employability Skills	SB	Mr. Santosh Bhagat	santosh.bhagat24268@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. Zulkifl Khairoowala zulkifl.khairoowala40439@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**A-204,A-205**		



SIGN
Prof. Ami Shah
Time Table Coordinator



SIGN & SEAL
Dr. Shailendra Mishra
Head of Department

SIGN & SEAL
Prof. (Dr.) Vipul Vekariya
Principal / Dean

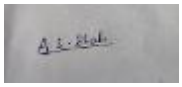
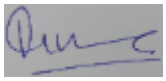
PARUL UNIVERSITY		
FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY		
INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY		
ACADEMIC YEAR: 2025-26	**YEAR:** 3rd YEAR	
SEMESTER: 6th	**LEVEL:** UG	**Effective from: 24-11-25**
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING	**DIVISION:** 6CSE13	

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	6CSE13:MAD:A-205	LIBRARY/SELF STUDY	CODECHEF	**6CSE13:ML:YV:D-404**	**6CSE13:MEARN:TS:D-404**	6CSE13:QR:A-205
10:25 to 11:20	6CSE13:ML:YV:A-205				**6CSE13:CD:PN:D-404**	6CSE13:MAD:A-205
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE13:MAD:A-205	6CSE13:CD:PN:D-404	CODECHEF	LIBRARY/SELF STUDY	6CSE13:QR:D-404	6CSE13:MEARN:TS:A-205
01:15 to 02:10					6CSE13:MAD:D-404	
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE13:CD:PN:A-205	6CSE13:ML:YV:D-404	CODECHEF	6CSE13:ML:YV:D-404	LIBRARY/SELF STUDY	6CSE13:ES:RB:D-404
03:25 to 04:20	6CSE13:MEARN:TS:A-205	6CSE13:CD:PN:D-404		6CSE13:QR:D-404		6CSE13:MEARN:TS:D-404

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	YV	Prof. Yashvi Vegad	yashviben.vegad39987@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	YV	Prof. Yashvi Vegad	yashviben.vegad39987@paruluniversity.ac.in
303105349	CD	Compiler Design	PN	Prof. Patel Namrata	Namrata.patel390002@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	PN	Prof. Patel Namrata	Namrata.patel390002@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	TS	Mr. Thirumurugan Suryaraj	S.THIRUMURUGAN40637@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	TS	Mr. Thirumurugan Suryaraj	S.THIRUMURUGAN40637@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	FPP	Ms. Falguni Parekh	falguni.parekh35618@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	PK	Mr. Pradeep Kumar	Pradeepkumar41783@paruluniversity.ac.in

303105380	MAD LAB	Mobile Application Development Laboratory	PK	Mr. Pradeep Kumar	Pradeepkumar41783@paruluniversity.ac.in
303193353	ES	Employability Skills	SB	Mr. Santosh Bhagat	santosh.bhagat24268@paruluniversity.ac.in

		MFT / FACULTY REPRESENTATIVE	**Prof. ANKITA SAXENA ankita.saxena38832@paruluniversity.ac.in**
LAB/ TUTORIAL LOCATION:	**A-205.D-404**		

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

PARUL UNIVERSITY

FACULTY NAME: FACULTY OF ENGINEERING & TECHNOLOGY

INSTITUTE NAME: PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC YEAR: 2025-26 | **YEAR:** 3rd YEAR

SEMESTER: 6th | **LEVEL:** UG

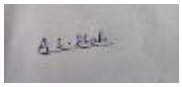
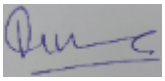
PROGRAM NAME: B.TECH COMPUTER SCIENCE & ENGINEERING | **DIVISION:** 6CSE14

Effective from: 24-11-25

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09:30 to 10:25	LIBRARY/SELF STUDY	6CSE14: MEARN: TS: D-404	CODECHEF	6CSE14:CD:RS:D-405	LIBRARY/SELF STUDY	6CSE14:MAD:D-404
10:25 to 11:20		6CSE14:CD:RS:D-404		6CSE14:MAD:D-405		
RECESS TIME: 11:20 - 12:20						
12:20 to 01:15	6CSE14:MEARN:TS:D-404	6CSE14:ML:KA:D-405	CODECHEF	LIBRARY/SELF STUDY	6CSE14:CD:RS:D-405	6CSE14:CD:RS:D-404
01:15 to 02:10		6CSE14:QR:RNS:D-405				6CSE14:ES:MC:D-404
RECESS TIME: 02:10 - 02:30						
02:30 to 03:25	6CSE14:ML:KA:D-404	**6CSE14:MAD:D-405**	CODECHEF	6CSE14:ML:KA:D-405	6CSE14:ML:KA:D-404	6CSE14:MEARN:D-405
03:25 to 04:20		**6CSE14:QR:RNS:D-405**			6CSE14:MEARN:TS:D-404	6CSE14:QR:RNS:D-405

SUBJECT CODE	SUBJECT INITIALS	SUBJECT FULL NAME	STAFF INITIALS	STAFF NAME	STAFF EMAIL ID
303105353	ML	Machine Learning	AJ	Prof. Anand Javdekar	anand.jawdekar35064@paruluniversity.ac.in
303105354	ML LAB	Machine Learning Laboratory	AJ	Prof. Anand Javdekar	anand.jawdekar35064@paruluniversity.ac.in
303105349	CD	Compiler Design	RS	Prof. Rahul Singh	rahul.kumar39964@paruluniversity.ac.in
303105350	CD LAB	Compiler Design laboratory	RS	Prof. Rahul Singh	rahul.kumar39964@paruluniversity.ac.in
303105385	MEARN	MEA(R)N Stack Web Development	TS	Mr. Thirumurugan Suryaraj	S.THIRUMURUGAN40637@paruluniversity.ac.in
303105386	MEARN LAB	MEA(R)N Stack Web Development Laboratory	TS	Mr. Thirumurugan Suryaraj	S.THIRUMURUGAN40637@paruluniversity.ac.in
303105311	QR	Quant, and Reasoning	RNS	Mr. Rajesh Narendra Salvi	RAJESH.SALVI40809@paruluniversity.ac.in
303105379	MAD	Mobile Application Development	PK	Mr. Pradeep Kumar	Pradeepkumar41783@paruluniversity.ac.in
303105380	MAD LAB	Mobile Application Development Laboratory	PK	Mr. Pradeep Kumar	Pradeepkumar41783@paruluniversity.ac.in
303193353	ES	Employability Skills	MC	Mr. Mehul Chauhan	mehulkumar.chauhan24701@paruluniversity.ac.in

LAB/ TUTORIAL LOCATION:	D-404,D-405	MFT / FACULTY REPRESENTATIVE	Prof. Monali Darji (ASH) monali.darji21238@paruluniversity.ac.in

 **SIGN** **Prof. Ami Shah** **Time Table Coordinator**	 **SIGN & SEAL** **Dr. Shailendra Mishra** **Head of Department**	 **SIGN & SEAL** **Prof. (Dr.) Vipul Vekariya** **Principal / Dean**

CONCERNED FACULTY LIST WITH CONTACT DETAIL

Subject code	Subject Name	Faculty name	Number
303105353	Machine Learning	Prof. Nidhi Patel	7574928925
303105354	Machine Learning Laboratory	Prof. Nidhi Patel	7574928925
303105349	Compiler Design	Prof. Shubham Upadhyay	8340622068
303105350	Compiler Design Laboratory	Prof. Shubham Upadhyay	8340622068
303105379	(PEC-02) Mobile Application Development	Mr. Akash Ugalmugale	9356172197
303105380	(PEC-02) Mobile Application Development Lab	Mr. Akash Ugalmugale	9356172197
303105385	(PEC-02) MEA(R)N Stack Web Development	Mr. Shubham Kumar	9356172197
303105386	(PEC-02) MEA(R)N Stack Web Development Lab	Mr. Shubham Kumar	9356172197
303105311	Quant, and Reasoning	Ms. Falguni Parekh	7069002250
303193353	Employability Skills	Dr. Ushma Pandya	123456789

MFT DETAILS

Sr. No.	Division	Name of Faculty	Mobile No	E-mail ID
1	6CSE1	Mrs. RUPA SATISH BHATT	8460089014	rupa.purohit@paruluniversity.ac.in
2	6CSE2	Prof. RASHMI PAL	7415456668	rashmi.pal39925@paruluniversity.ac.in
3	6CSE3	Ms. Dhruvi Acharya	654987123	--
4	6CSE4	Prof. Ankita Saxena	8319970450	ankita.saxena38832@paruluniversity.ac.in
5	6CSE5	Prof. Sanjay Pagare	9009744020	sanjay.pagare36802@paruluniversity.ac. in
6	6CSE6	Prof. Zulkifl Khairoowala	8445880096	zulkifl.khairoowala40439@paruluniversi ty.ac.in
7	6CSE7	Prof. Kalpana Reddy (Ec)	7022449014	kalpana.reddy28872@paruluniversity.ac.in
8	6CSE8	Prof. Sanjay Pagare	9009744020	sanjay.pagare36802@paruluniversity.ac. in
9	6CSE9	Prof. Harsh Pateliya	7016962479	harsh.pateliya36741@paruluniversity.ac. in
10	6CSE10	Prof. Rajul Shah (Ee)	9429113243	rajul.shah@paruluniversity.ac.in
11	6CSE11	Prof. Manju Yadav (Ec)	8320097751	manju.yadav270110@paruluniversity.ac. in
12	6CSE12	Prof. Zulkifl Khairoowala	8445880096	zulkifl.khairoowala40439@paruluniversi ty.ac.in
13	6CSE13	Prof. Ankita Saxena	8319970450	ankita.saxena38832@paruluniversity.ac.i n
14	6CSE14	Prof. Monali Darji (Ash)	654987123	monali.darji21238@paruluniversity.ac.in

Curriculum

Semester - 6						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.	
303105300	Project – I	3.00	0	6	0	20	-	20	60	-	40	-	100
303105353	Machine Learning	3.00	3	0	0	-	20	-	-	30	-	25	50
303105354	Machine Learning Laboratory	1.00	0	2	0	20	-	20	60	-	40	-	100
303105349	Compiler Design	3.00	3	0	0	-	20	-	-	30	-	25	50
303105350	Compiler Design Laboratory	1.00	0	2	0	20	-	20	60	-	40	-	100
303105379	Mobile Application Development	3.00	3	0	0	-	20	-	-	30	-	25	50
303105380	Mobile Application Development laboratory	1.00	0	2	0	20	-	20	60	-	40	-	100
303105385	MER(N) Stack Web Development	3.00	3	0	0	-	20	-	-	30	-	25	50
303105386	MER(N) Stack Web Development Laboratory	1.00	0	2	0	20	-	20	60	-	40	-	100
303105311	Quant and Reasoning	3.00	3	0	0	-	-	100	-	-	40	-	100
303193353	Employability Skills	1.00	0	2	0								800
	Total	**24**	**15**	**16**	**1**								

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing : 40% Practical Passing : 50%

303105300 - Project - 1

Course: BTech **Semester:** 6

Rationale : : One of the important criteria of "Project " is to develop the ability of "learning to Learn " on its own. This would go a long way helping the students in keeping pace with future changes in technology and in the acquisition of knowledge and skills as and when needed. The course of the "Project" is designed with an aim to all these requirements of the students. Which will include planning of the Programme, which must be completed within the time allocated. The Project should never have a single solution and process of arriving at a particular solution, the student must be required to make number of decisions after study information as he has gathered from experiments, surveys, analysis etc.

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	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:

1. Define characteristics of project.
2. Manage project plan, monitor and controlling project schedule and budget, tracking project progress 3. Deliver a seminar on the general area of work being undertaken and specific contributions to that field.
4. Prepare a formal report describing the work undertaken and results obtained so far.
5. Present the work in a forum involving poster presentations and demonstrations of operational hardware and software.

303105353 - Machine Learning

Course: BTech **Semester:** 6

Prerequisite: Data structure, automata, and languages, Mathematics, Python. | 203105212 - Python Programming Laboratory

Rationale : This course provides a broad introduction to Artificial Intelligence. AI techniques for search and knowledge representation also apply knowledge of AI planning and machine learning techniques to real-world problems.

Teaching and Examination Scheme

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

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

Reference Books

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

Course Content **W** - Weightage (%) , **T** - Teaching hours

Sr.	Topics	W	T
1	**IntroductionIntroduction** Introduction to Machine Learning – Learning Paradigms – PAC learning – Basics of Probability – Version Spaces **Machine Learning in Practice** 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	**Supervised Learning – I**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	**Supervised Learning - II**K-NN classifier – Logistic regression – Perceptrons – Single layer & Multi-layer – Support Vector Machines – Linear & Non-linear, Semi Supervised Learning	**20**	**9**
4	**Unsupervised Learning**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	**Evaluation Metrics**ROC Curves, Evaluation Metrics, Significance tests – Error correction in Perceptrons.	**10**	**6**
6	**Ensemble Learning**Bagging and Boosting, Random forests, Adaboost, XG boost inclusive.	**10**	**5**
	Total	**100**	**45**

Course Outcome

After Learning the Course the students shall be able to:

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.

303105353 - Machine Learning Laboratory

Course: BTech **Semester:** 6

Prerequisite: Data structure, automata, and languages, Mathematics, Python | 203105101 - Fundamentals of Programming

Rationale : This course provides a broad introduction to Artificial Intelligence. AI techniques for search and knowledge representation also apply knowledge of AI planning and machine learning techniques to real-world problems.

Teaching and Examination Scheme

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

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

Course Outcome

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

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.**

303105349 - Compiler Design

Course: BTech **Semester:** 6

Prerequisite: Algorithms, Data Structures, Assembly Language Program, Theory of Computation, C/C++ Programming Skills | 203105205 - Data Structure and Algorithms

Rationale : Compiler Design is a fundamental subject of Computer Engineering. Compiler design principles provide an in-depth view of translation, optimization and compilation of the entire source program. It also focuses on various designs of compiler and structuring of various phases of compiler. It is inevitable to grasp the knowledge of various types of grammar, lexical analysis, yacc, FSM(Finite State Machines) and correlative concepts of languages.

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	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	**Overview of compilation :** 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	**Introduction to syntax analysis** 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	**Top-down parsing** 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	**Syntax-directed definitions (attribute grammars)** Synthesized and inherited attributes, examples of SDDs, evaluation orders for attributes of an SDD, dependency graphs. S-ttributed and L-attributed SDDs and their implementation using LR-parsers and recursive-descent parsers respectively.	**15**	**6**
5	**Semantic analysis** 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**
6	**Intermediate code generation** 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 – it- 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.	**15**	**6**
7	**Run-time environments**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.	**10**	**3**
8	**Introduction to machine code generation and optimization** Simple machine code generation, examples of machine-independent code optimizations.	**5**	**2**
	Total	**100**	**45**

Reference Books	
1.	**Compilers: Principles, Techniques and Tools** By Aho, Lam, Sethi, and Ullman | Pearson | Second, Pub. Year 2014

Course Outcome
After Learning the Course the students shall 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 compiler: intermediate code, Code optimization Techniques and Error Recovery mechanisms 4. Understand issues of run time environments and scheduling for instruction level parallelism.

303105350 - Compiler Design Laboratory

Course: BTech **Semester:** 6

Prerequisite: Algorithms, Data Structures, Assembly Language Program, Theory of Computation, C/C++ Programming Skills | 203105205 - Data Structure and Algorithms

Rationale : Compiler Design is a fundamental subject of Computer Engineering. Compiler design principles provide an in-depth view of translation, optimization and compilation of the entire source program. It also focuses on various designs of compiler and structuring of various phases of compiler. It is inevitable to grasp the knowledge of various types of grammar, lexical analysis, yacc, FSM (Finite State Machines) and correlative concepts of languages.

Teaching and Examination Scheme

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

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

Course Outcome

After Learning the Course the students shall be able to:
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

List of Practical

1.	**Program to implement Lexical Analyzer.**
2.	**Program to count digits, vowels and symbols in C.**
3.	**Program to check validation of User Name and Password in C.**
4.	**Program to implement Predictive Parsing LL (1) in C.**
5.	**Program to implement Recursive Descent Parsing in C.**
6.	**Program to implement Operator Precedence Parsing in C.**
7.	**Program to implement LALR Parsing in C.**
8.	**To Study about Lexical Analyzer Generator (LEX) and Flex (Fast LexicalAnalyzer)**

9.	**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.
10.	**Implement following programs using Lex.** 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.

303105379 - Mobile App Development

Course: Btech **Semester:** 6

Prerequisite: Basic knowledge of java language

Rationale : The mobile application development syllabus covers the essential concepts and tools for building apps across platforms, including UI/UX design, app architecture, networking, databases, and deployment. It explores both native development (Android) and cross-platform frameworks, emphasizing practical skills for creating functional, user-friendly mobile applications.

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	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	**Android Operating System and Development Environment :** 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	**Android Components and Resource handling :** Components: Context, Activity, Intent, Service, Broadcast Receiver, Resources:String, Color, Drawable, Styles, Theme, Localization:Prepare Application for Localization	20	7
3	**Android User Interface Elements and Layouts:** Introduction of Material Design, UI and UX **Layouts:** 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	**Working with Views and Fragment:** GridView, WebView, ScrollView, ListView, RecyclerView, CardView Fragment: Introduction, life Cycle, Implementation	10	5
5	**Data Storage Techniques :** Shared Preferences, Files and Directories, SQLite Database Connectivity andOperations, Content Providers: Basics, Content URI, Content Resolver, Built-in content providers.	20	9

6	**Web Application Integration Techniques:** Introduction of AsyncTask, Communication with Web API, Introduction to JSON data, JSON Parsing,Implementation of Third-PartyLibraryto Fetch Network Data, Notifications, Telephony API, Google API	**10**	**8**
7	**Polish and Publish Application:** Different Ways to Monetize, Versioning, Signing, Packaging and Beta Test of Mobile Application, Distributing Application on Mobile Market Place	**10**	**5**
	Total	**100**	**45**

303105379 - Mobile App Development

Reference Books

1.	**Android Wireless Application Development By Lauren Darcey and Shane Conder | Pearson Education,2011 | second edition (TextBook)**
2.	**Head First Android Development: A Brain Friendly Guide, O`Reilly, David Griffiths and Dawn Griffiths**
3.	**Professional Android 4 Application Development, John Wiley & Sons Author(s): Reto Meier**
4.	**Beginning Android, Apress Author(s): Mark L Murphy**

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

303105380 - Mobile App Development Laboratory

Course: Btech **Semester:** 6

Prerequisite: Basic knowledge of java language

Rationale : The mobile application development syllabus covers the essential concepts and tools for building apps across platforms, including UI/UX design, app architecture, networking, databases, and deployment. It explores both native development (Android) and cross-platform frameworks, emphasizing practical skills for creating functional, user-friendly mobile applications.

Teaching and Examination Scheme

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

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

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.

303105380 - Mobile App Development Laboratory

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.
10.	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
11.	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.
12.	Create an app with a menu: Implement a menu with five options. The selected option should be displayed in a TextView.
13.	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.
14.	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.
15.	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.
16.	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.

303105385 - MEA(R)N Stack Web Development

Course: Btech **Semester:** 6

Prerequisite: Database Management system, SQL, Basics of Javascript and web development

Rationale : 1. Understanding the basics of web development and JavaScript programming 2. Learning how to use MongoDB, a popular NoSQL database, to store and retrieve data 3. Learning how to use Node.js, a server-side JavaScript runtime, to create APIs and handle server-side logic 4. Learning how to use Express.js, a lightweight web application framework for Node.js, to build web applications 5. Learning how to use AngularJS, a powerful front-end JavaScript framework, to create dynamic user interfaces and connect with APIs 6. Building a full-stack web application from scratch using the MEAN stack 7. Understanding best practices for deploying, testing, and maintaining MEAN stack applications

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	T	CE	P	T	P	
3	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	**Introduction to Web Development and the MEAN Stack:** Overview of web development, Introduction to the MEAN stack, Setting up the development environment	4	2
2	**MongoDB:** Introduction to NoSQL databases, Installation and configuration of MongoDB, CRUD operations in MongoDB, Indexing and querying in MongoDB, Schema design and data modeling	20	10
3	**Node.JS & Express JS:** 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	20	10
4	**Angular:** 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	30	13

5	**Integration:** Integrating the Angular frontend with the Express.js API, Authentication and user management integration , Handling real-time data with WebSockets, Error handling and testing	**10**	**3**
6	**Deployment and Best Practices:** Preparing the application for deployment, Hosting and server setup options, Security best practices, Performance optimization and testing, Version control and continuous integration.	**6**	**3**
7	**Final Project:**Project	**10**	**4**
	Total	**100**	**45**

Reference Books

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)**

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, Expíess.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 of contributing to open- source projects.

303105386-MEA(R)N Stack Web Development Laboratory

Course: BTech **Semester:** 6

Prerequisite: Database Management system, SQL, Basics of Javascript and web development

Rationale : 1. Understanding the basics of web development and JavaScript programming 2. Learning how to use MongoDB, a popular NoSQL database, to store and retrieve data 3. Learning how to use Node.js, a server-side JavaScript runtime, to create APIs and handle server-side logic 4. Learning how to use Express.js, a lightweight web application framework for Node.js, to build web applications 5. Learning how to use AngularJS, a powerful front-end JavaScript framework, to create dynamic user interfaces and connect with APIs 6. Building a full-stack web application from scratch using the MEAN stack 7. Understanding best practices for deploying, testing, and maintaining MEAN stack applications

Teaching and Examination Scheme

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

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

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, Expíess.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 of contributing to opensource projects.

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**

303105311 - Quant and Reasoning

Course: BTech **Semester:** 6

Prerequisite: Good fundamentals in calculations and ability to think logically

Rationale : The course aims on exploring the fundamentals of Aptitude & reasoning, which involves the ability to analyze and evaluate information logically. Students will learn essential skills such as critical thinking, problem-solving, and decision-making. These skills are vital for software engineers as they navigate complex problems and make sound judgments throughout the development process.

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	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	**UNIT-1**Number system , LCM & HCF simplifications and approximations	9	4
2	**UNIT-2**Averages , progessions,	9	4
3	**UNIT-3**Ratio and proportion,Problems on Ages, Percentages	12	5
4	**UNIT-4**Profit & loss, partnerships, S.I & C.I	12	5
5	**UNIT-5** Time & work , pipes and Cisterns, Time speed and distance , Problems on train crossings, Boats & streams ,	18	8
6	**UNIT-6**Permutations & combinations, probability	11	5
7	**UNIT-7**Directions, seating arrangements	4	2
8	**UNIT-8**Clocks, calenders	6	3
9	**UNIT-9**Cubes & Dice, syllogisms	9	4
10	**UNIT-10**Blood Relations	5	2
11	**UNIT-11**Series ,Analogy, odd man out, coding and Decoding	5	3
	Total	100	45

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

Course Outcome
After Learning the Course the students shall be able to:
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.

Miscellaneous	
Exam Requirement	Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc

303193353 - Employability Skills

Course: BTech **Semester:** 6

Prerequisite:

Rationale : -

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
					Internal Marks			External Marks		
Lecture Hrs/Week	Tutorial Hrs/Week	Lab Hrs/Week	Seminar Hrs/Week	Credit	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	**IELTS Mock Test** 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	**Resume Building** 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	**Advanced Group Discussion: Mock Round** 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	**Personal Interview: Mock Round** Preparing For The Interview Review Question Employer's Expectation Case Interview	25	4
	Total	100	15

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

COURSE LECTURES/LAB AND TUTORIAL PLANNING

Subject Name : MACHINE LEARNING Subject code : 303105353

Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE1	6CSE2	6CSE3
				Planned Date	Planned Date	Planned Date
1	1	Basics Learning Problems	9	24-11-25	24-11-25	25-11-25
2		Designing a Learning System		26-11-25	25-11-25	27-11-25
3		Issues with Machine Learning		27-11-25	28-11-25	29-11-25
4		Concept Learning		01-12-25	01-12-25	02-12-25
5		Version Spaces and Candidate Elimination		03-12-25	02-12-25	04-12-25
6		Inductive Bias		04-12-25	05-12-25	06-12-25
7	2	Decision Tree Representation, Appropriate problems for Decision tree learning	8	08-12-25	08-12-25	09-12-25
8		Algorithm		10-12-25	09-12-25	11-12-25
9		Hypothesis Space Search in Decision Tree Learning		11-12-25	12-12-25	13-12-25
10		Inductive Bias in Decision Tree Learning		15-12-25	15-12-25	16-12-25
11		Issues in Decision Tree Learning, K-Nearest Neighbour Learning		17-12-25	16-12-25	18-12-25
12		Locally Weighted Regression		18-12-25	19-12-25	20-12-25
13		Radial Basis Functions		22-12-25	22-12-25	23-12-25
14		Case-Based Reasoning		24-12-25	23-12-25	27-12-25
15	3	Neural Network Representation	9	29-12-25	29-12-25	30-12-25
16		Appropriate problems for Neural Network Learning		31-12-25	30-12-25	01-01-26
17		Perceptrons		01-01-26	02-01-26	03-01-26
18		Multilayer Networks and Back Propagation		05-01-26	05-01-26	06-01-26
19		Algorithms		07-01-26	06-01-26	08-01-26
20		Remarks on Back Propagation Algorithms		08-01-26	09-01-26	10-01-26
21		Case Study: face Recognition		13-01-26	13-01-26	16-01-26
22		Case Study: face Recognition		16-01-26	17-01-26	18-01-26
23	4	Bayes Theorem	8	20-01-26	20-01-26	21-01-26
24		Bayes Theorem and Concept Learning		22-01-26	21-01-26	23-01-26
25		Maximum Likelihood and Least squared Error Hypothesis		23-01-26	24-01-26	25-01-26
26		Bayes Optimal Classifier		27-01-26	27-01-26	28-01-26
27		Gibbs Algorithm		29-01-26	28-01-26	30-01-26
28		Naïve Bayes Classifier		30-01-26	31-01-26	01-02-26
29		Bayesian Belief Network		05-02-26	07-02-26	08-02-26
30		EM Algorithm Case Study: Learning to classify text		06-02-26	17-02-26	15-02-26
31	5	Classical Logic and Fuzzy logic	6	17-02-26	20-02-26	18-02-26
32		Fuzzy Rule based system		19-02-26	21-02-26	20-02-26
33		Fuzzy Decision making		20-02-26	24-02-26	22-02-26
34		Fuzzy Classification		24-02-26	27-02-26	25-02-26
35		Fuzzy Classification		26-02-26	28-02-26	27-02-26
36		Fuzzy Pattern Recognition		27-02-26	06-03-26	01-03-26

37		Fuzzy Pattern Recognition		04-03-26	07-03-26	04-03-26
38		Applications		09-03-26	10-03-26	06-03-26
39	6	Derivative based Optimization- Descent Methods	5	11-03-26	13-03-26	08-03-26
40		Genetic Algorithms – Ant Colony Optimization – Particle Swarm Optimization		12-03-26	14-03-26	11-03-26
41		Case Study - fraud detection		16-03-26	17-03-26	13-03-26
42		health care using Soft computing techniques		18-03-26	21-03-26	15-03-26

Subject Name : MACHINE LEARNING Subject code : 303105353

Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE4	6CSE5	6CSE6
				Planned Date	Planned Date	Planned Date
1	1	Basics Learning Problems	9	24-11-25	24-11-25	25-11-25
2		Designing a Learning System		26-11-25	25-11-25	27-11-25
3		Issues with Machine Learning		27-11-25	28-11-25	29-11-25
4		Concept Learning		01-12-25	01-12-25	02-12-25
5		Version Spaces and Candidate Elimination		03-12-25	02-12-25	04-12-25
6		Inductive Bias		04-12-25	05-12-25	06-12-25
7	2	Decision Tree Representation, Appropriate problems for Decision tree learning	8	08-12-25	08-12-25	09-12-25
8		Algorithm		10-12-25	09-12-25	11-12-25
9		Hypothesis Space Search in Decision Tree Learning		11-12-25	12-12-25	13-12-25
10		Inductive Bias in Decision Tree Learning		15-12-25	15-12-25	16-12-25
11		Issues in Decision Tree Learning, K-Nearest Neighbour Learning		17-12-25	16-12-25	18-12-25
12		Locally Weighted Regression		18-12-25	19-12-25	20-12-25
13		Radial Basis Functions		22-12-25	22-12-25	23-12-25
14		Case-Based Reasoning		24-12-25	23-12-25	27-12-25
15	3	Neural Network Representation	9	29-12-25	29-12-25	30-12-25
16		Appropriate problems for Neural Network Learning		31-12-25	30-12-25	01-01-26
17		Perceptrons		01-01-26	02-01-26	03-01-26
18		Multilayer Networks and Back Propagation		05-01-26	05-01-26	06-01-26
19		Algorithms		07-01-26	06-01-26	08-01-26
20		Remarks on Back Propagation Algorithms		08-01-26	09-01-26	10-01-26
21		Case Study: face Recognition		13-01-26	13-01-26	16-01-26
22		Case Study: face Recognition		16-01-26	17-01-26	18-01-26
23	4	Bayes Theorem	8	20-01-26	20-01-26	21-01-26
24		Bayes Theorem and Concept Learning		22-01-26	21-01-26	23-01-26
25		Maximum Likelihood and Least squared Error Hypothesis		23-01-26	24-01-26	25-01-26
26		Bayes Optimal Classifier		27-01-26	27-01-26	28-01-26
27		Gibbs Algorithm		29-01-26	28-01-26	30-01-26
28		Naïve Bayes Classifier		30-01-26	31-01-26	01-02-26

29		Bayesian Belief Network		05-02-26	07-02-26	08-02-26
30		EM Algorithm Case Study: Learning to classify text		06-02-26	17-02-26	15-02-26
31	5	Classical Logic and Fuzzy logic	6	17-02-26	20-02-26	18-02-26
32		Fuzzy Rule based system		19-02-26	21-02-26	20-02-26
33		Fuzzy Decision making		20-02-26	24-02-26	22-02-26
34		Fuzzy Classification		24-02-26	27-02-26	25-02-26
35		Fuzzy Classification		26-02-26	28-02-26	27-02-26
36		Fuzzy Pattern Recognition		27-02-26	06-03-26	01-03-26
37		Fuzzy Pattern Recognition		04-03-26	07-03-26	04-03-26
38		Applications		09-03-26	10-03-26	06-03-26
39	6	Derivative based Optimization- Descent Methods	5	11-03-26	13-03-26	08-03-26
40		Genetic Algorithms – Ant Colony Optimization – Particle Swarm Optimization		12-03-26	14-03-26	11-03-26
41		Case Study - fraud detection		16-03-26	17-03-26	13-03-26
42		health care using Soft computing techniques		18-03-26	21-03-26	15-03-26

Subject Name : MACHINE LEARNING Subject code : 303105353

Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE7	6CSE8	6CSE9
				Planned Date	Planned Date	Planned Date
1	1	Basics Learning Problems	9	24-11-25	24-11-25	25-11-25
2		Designing a Learning System		26-11-25	25-11-25	27-11-25
3		Issues with Machine Learning		27-11-25	28-11-25	29-11-25
4		Concept Learning		01-12-25	01-12-25	02-12-25
5		Version Spaces and Candidate Elimination		03-12-25	02-12-25	04-12-25
6		Inductive Bias		04-12-25	05-12-25	06-12-25
7	2	Decision Tree Representation, Appropriate problems for Decision tree learning	8	08-12-25	08-12-25	09-12-25
8		Algorithm		10-12-25	09-12-25	11-12-25
9		Hypothesis Space Search in Decision Tree Learning		11-12-25	12-12-25	13-12-25
10		Inductive Bias in Decision Tree Learning		15-12-25	15-12-25	16-12-25
11		Issues in Decision Tree Learning, K-Nearest Neighbour Learning		17-12-25	16-12-25	18-12-25
12		Locally Weighted Regression		18-12-25	19-12-25	20-12-25
13		Radial Basis Functions		22-12-25	22-12-25	23-12-25
14		Case-Based Reasoning		24-12-25	23-12-25	27-12-25
15	3	Neural Network Representation	9	29-12-25	29-12-25	30-12-25
16		Appropriate problems for Neural Network Learning		31-12-25	30-12-25	01-01-26
17		Perceptrons		01-01-26	02-01-26	03-01-26
18		Multilayer Networks and Back Propagation		05-01-26	05-01-26	06-01-26
19		Algorithms		07-01-26	06-01-26	08-01-26
20		Remarks on Back Propagation Algorithms		08-01-26	09-01-26	10-01-26

21		Case Study: face Recognition		13-01-26	13-01-26	16-01-26
22		Case Study: face Recognition		16-01-26	17-01-26	18-01-26
23	4	Bayes Theorem	8	20-01-26	20-01-26	21-01-26
24		Bayes Theorem and Concept Learning		22-01-26	21-01-26	23-01-26
25		Maximum Likelihood and Least squared Error Hypothesis		23-01-26	24-01-26	25-01-26
26		Bayes Optimal Classifier		27-01-26	27-01-26	28-01-26
27		Gibbs Algorithm		29-01-26	28-01-26	30-01-26
28		Naïve Bayes Classifier		30-01-26	31-01-26	01-02-26
29		Bayesian Belief Network		05-02-26	07-02-26	08-02-26
30		EM Algorithm Case Study: Learning to classify text		06-02-26	17-02-26	15-02-26
31	5	Classical Logic and Fuzzy logic	6	17-02-26	20-02-26	18-02-26
32		Fuzzy Rule based system		19-02-26	21-02-26	20-02-26
33		Fuzzy Decision making		20-02-26	24-02-26	22-02-26
34		Fuzzy Classification		24-02-26	27-02-26	25-02-26
35		Fuzzy Classification		26-02-26	28-02-26	27-02-26
36		Fuzzy Pattern Recognition		27-02-26	06-03-26	01-03-26
37		Fuzzy Pattern Recognition		04-03-26	07-03-26	04-03-26
38		Applications		09-03-26	10-03-26	06-03-26
39	6	Derivative based Optimization- Descent Methods	5	11-03-26	13-03-26	08-03-26
40		Genetic Algorithms – Ant Colony Optimization – Particle Swarm Optimization		12-03-26	14-03-26	11-03-26
41		Case Study - fraud detection		16-03-26	17-03-26	13-03-26
42		health care using Soft computing techniques		18-03-26	21-03-26	15-03-26

Subject Name : MACHINE LEARNING Subject code : 303105353

Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE10	6CSE11	6CSE12
				Planned Date	Planned Date	Planned Date
1	1	Basics Learning Problems	9	24-11-25	24-11-25	25-11-25
2		Designing a Learning System		26-11-25	25-11-25	27-11-25
3		Issues with Machine Learning		27-11-25	28-11-25	29-11-25
4		Concept Learning		01-12-25	01-12-25	02-12-25
5		Version Spaces and Candidate Elimination		03-12-25	02-12-25	04-12-25
6		Inductive Bias		04-12-25	05-12-25	06-12-25
7	2	Decision Tree Representation, Appropriate problems for Decision tree learning	8	08-12-25	08-12-25	09-12-25
8		Algorithm		10-12-25	09-12-25	11-12-25
9		Hypothesis Space Search in Decision Tree Learning		11-12-25	12-12-25	13-12-25
10		Inductive Bias in Decision Tree Learning		15-12-25	15-12-25	16-12-25
11		Issues in Decision Tree Learning, K-Nearest Neighbour Learning		17-12-25	16-12-25	18-12-25
12		Locally Weighted Regression		18-12-25	19-12-25	20-12-25

13		Radial Basis Functions		22-12-25	22-12-25	23-12-25
14		Case-Based Reasoning		24-12-25	23-12-25	27-12-25
15	3	Neural Network Representation	9	29-12-25	29-12-25	30-12-25
16		Appropriate problems for Neural Network Learning		31-12-25	30-12-25	01-01-26
17		Perceptrons		01-01-26	02-01-26	03-01-26
18		Multilayer Networks and Back Propagation		05-01-26	05-01-26	06-01-26
19		Algorithms		07-01-26	06-01-26	08-01-26
20		Remarks on Back Propagation Algorithms		08-01-26	09-01-26	10-01-26
21		Case Study: face Recognition		13-01-26	13-01-26	16-01-26
22		Case Study: face Recognition		16-01-26	17-01-26	18-01-26
23	4	Bayes Theorem	8	20-01-26	20-01-26	21-01-26
24		Bayes Theorem and Concept Learning		22-01-26	21-01-26	23-01-26
25		Maximum Likelihood and Least squared Error Hypothesis		23-01-26	24-01-26	25-01-26
26		Bayes Optimal Classifier		27-01-26	27-01-26	28-01-26
27		Gibbs Algorithm		29-01-26	28-01-26	30-01-26
28		Naïve Bayes Classifier		30-01-26	31-01-26	01-02-26
29		Bayesian Belief Network		05-02-26	07-02-26	08-02-26
30		EM Algorithm Case Study: Learning to classify text		06-02-26	17-02-26	15-02-26
31	5	Classical Logic and Fuzzy logic	6	17-02-26	20-02-26	18-02-26
32		Fuzzy Rule based system		19-02-26	21-02-26	20-02-26
33		Fuzzy Decision making		20-02-26	24-02-26	22-02-26
34		Fuzzy Classification		24-02-26	27-02-26	25-02-26
35		Fuzzy Classification		26-02-26	28-02-26	27-02-26
36		Fuzzy Pattern Recognition		27-02-26	06-03-26	01-03-26
37		Fuzzy Pattern Recognition		04-03-26	07-03-26	04-03-26
38		Applications		09-03-26	10-03-26	06-03-26
39	6	Derivative based Optimization- Descent Methods	5	11-03-26	13-03-26	08-03-26
40		Genetic Algorithms – Ant Colony Optimization – Particle Swarm Optimization		12-03-26	14-03-26	11-03-26
41		Case Study - fraud detection		16-03-26	17-03-26	13-03-26
42		health care using Soft computing techniques		18-03-26	21-03-26	15-03-26

Subject Name : MACHINE LEARNING Subject code : 303105353

Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE13	6CSE14
				Planned Date	Planned Date
1	1	Basics Learning Problems	9	24-11-25	24-11-25
2		Designing a Learning System		26-11-25	25-11-25
3		Issues with Machine Learning		27-11-25	28-11-25
4		Concept Learning		01-12-25	01-12-25
5		Version Spaces and Candidate Elimination		03-12-25	02-12-25

6		Inductive Bias		04-12-25	05-12-25
7	2	Decision Tree Representation, Appropriate problems for Decision tree learning	8	08-12-25	08-12-25
8		Algorithm		10-12-25	09-12-25
9		Hypothesis Space Search in Decision Tree Learning		11-12-25	12-12-25
10		Inductive Bias in Decision Tree Learning		15-12-25	15-12-25
11		Issues in Decision Tree Learning, K-Nearest Neighbour Learning		17-12-25	16-12-25
12		Locally Weighted Regression		18-12-25	19-12-25
13		Radial Basis Functions		22-12-25	22-12-25
14		Case-Based Reasoning		24-12-25	23-12-25
15	3	Neural Network Representation	9	29-12-25	29-12-25
16		Appropriate problems for Neural Network Learning		31-12-25	30-12-25
17		Perceptrons		01-01-26	02-01-26
18		Multilayer Networks and Back Propagation		05-01-26	05-01-26
19		Algorithms		07-01-26	06-01-26
20		Remarks on Back Propagation Algorithms		08-01-26	09-01-26
21		Case Study: face Recognition		13-01-26	13-01-26
22		Case Study: face Recognition		16-01-26	17-01-26
23	4	Bayes Theorem	8	20-01-26	20-01-26
24		Bayes Theorem and Concept Learning		22-01-26	21-01-26
25		Maximum Likelihood and Least squared Error Hypothesis		23-01-26	24-01-26
26		Bayes Optimal Classifier		27-01-26	27-01-26
27		Gibbs Algorithm		29-01-26	28-01-26
28		Naïve Bayes Classifier		30-01-26	31-01-26
29		Bayesian Belief Network		05-02-26	07-02-26
30		EM Algorithm Case Study: Learning to classify text		06-02-26	17-02-26
31	5	Classical Logic and Fuzzy logic	6	17-02-26	20-02-26
32		Fuzzy Rule based system		19-02-26	21-02-26
33		Fuzzy Decision making		20-02-26	24-02-26
34		Fuzzy Classification		24-02-26	27-02-26
35		Fuzzy Classification		26-02-26	28-02-26
36		Fuzzy Pattern Recognition		27-02-26	06-03-26
37		Fuzzy Pattern Recognition		04-03-26	07-03-26
38		Applications		09-03-26	10-03-26
39	6	Derivative based Optimization- Descent Methods	5	11-03-26	13-03-26
40		Genetic Algorithms – Ant Colony Optimization – Particle Swarm Optimization		12-03-26	14-03-26
41		Case Study - fraud detection		16-03-26	17-03-26
42		health care using Soft computing techniques		18-03-26	21-03-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE

Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE1 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	28-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	05-12-25
3	3	Write a program to 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.	2	12-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	19-12-25
5	5	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.	2	26-12-25
6	6	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.	2	02-01-26
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	09-01-26
8	8	Implement linear regression and logistic regression	2	16-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	23-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	30-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE

Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE2 Planned Date

1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	24-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	01-12-25
3	3	Write a program to 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.	2	08-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	15-12-25
5	5	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.	2	22-12-25
6	6	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.	2	29-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	05-01-26
8	8	Implement linear regression and logistic regression	2	12-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	19-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	02-02-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE3 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	25-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	02-12-25
3	3	Write a program to 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.	2	09-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	16-12-25
5	5	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.	2	23-12-25
6	6	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.	2	30-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	06-01-26
8	8	Implement linear regression and logistic regression	2	13-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	20-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	27-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE4 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	28-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	05-12-25
3	3	Write a program to 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.	2	12-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	19-12-25
5	5	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.	2	26-12-25
6	6	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.	2	02-01-26
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	09-01-26
8	8	Implement linear regression and logistic regression	2	16-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	23-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	30-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE5 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	24-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	01-12-25
3	3	Write a program to 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.	2	08-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	15-12-25
5	5	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.	2	22-12-25
6	6	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.	2	29-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	05-01-26
8	8	Implement linear regression and logistic regression	2	12-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	19-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	02-02-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE6 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	25-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	02-12-25
3	3	Write a program to 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.	2	09-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	16-12-25
5	5	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.	2	23-12-25
6	6	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.	2	30-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	06-01-26
8	8	Implement linear regression and logistic regression	2	13-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	20-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	27-01-26

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Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE7 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	28-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	05-12-25
3	3	Write a program to 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.	2	12-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	19-12-25
5	5	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.	2	26-12-25
6	6	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.	2	02-01-26
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	09-01-26
8	8	Implement linear regression and logistic regression	2	16-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	23-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	30-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE8 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	24-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	01-12-25
3	3	Write a program to 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.	2	08-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	15-12-25
5	5	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.	2	22-12-25
6	6	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.	2	29-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	05-01-26
8	8	Implement linear regression and logistic regression	2	12-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	19-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	02-02-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE9 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	25-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	02-12-25
3	3	Write a program to 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.	2	09-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	16-12-25
5	5	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.	2	23-12-25
6	6	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.	2	30-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	06-01-26
8	8	Implement linear regression and logistic regression	2	13-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	20-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	27-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE10 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	28-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	05-12-25
3	3	Write a program to 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.	2	12-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	19-12-25
5	5	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.	2	26-12-25
6	6	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.	2	02-01-26
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	09-01-26
8	8	Implement linear regression and logistic regression	2	16-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	23-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	30-01-26

Subject Name : MACHINE LEARNING Subject code : 303105354

Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE11 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	24-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	01-12-25
3	3	Write a program to 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.	2	08-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	15-12-25
5	5	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.	2	22-12-25
6	6	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.	2	29-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	05-01-26
8	8	Implement linear regression and logistic regression	2	12-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	19-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	02-02-26

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Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE12 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	25-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	02-12-25
3	3	Write a program to 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.	2	09-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	16-12-25
5	5	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.	2	23-12-25
6	6	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.	2	30-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	06-01-26
8	8	Implement linear regression and logistic regression	2	13-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	20-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	27-01-26

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Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE13 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	28-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	05-12-25
3	3	Write a program to 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.	2	12-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	19-12-25
5	5	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.	2	26-12-25
6	6	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.	2	02-01-26
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	09-01-26
8	8	Implement linear regression and logistic regression	2	16-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	23-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	30-01-26

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Semester : 6th Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE14 Planned Date
1	1	Write a program to demonstrate the working of the decision tree-based ID3 algorithm.	2	24-11-25
2	2	Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.	2	01-12-25
3	3	Write a program to 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.	2	08-12-25
4	4	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	2	15-12-25
5	5	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.	2	22-12-25
6	6	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.	2	29-12-25
7	7	Write a program to implement the K-Nearest Neighbour algorithm to classify the iris data set.	2	05-01-26
8	8	Implement linear regression and logistic regression	2	12-01-26
9	9	Compare the various supervised learning algorithm by using appropriate dataset.	2	19-01-26
10	10	Compare the various Unsupervised learning algorithm by using the appropriate datasets.	2	02-02-26

Subject Name : Compliler Design(EVEN 2025-26) Subject code : 303105349

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE1 Planned Date	6CSE2 Planned Date	6CSE3 Planned Date
1	1	Overview of Compilation	8	24-11-25	25-11-25	24-11-25
2		The structure of compiler and applications of compiler technology		27-11-25	26-11-25	25-11-25
3		Lexical Analysis		28-11-25	29-11-25	28-11-25
4		The role of lexical analyzer		01-12-25	02-12-25	01-12-25
5		Specification of tokens, recognition of tokens		04-12-25	03-12-25	02-12-25
6		Hand-written lexical analyzers		05-12-25	06-12-25	05-12-25
7		Introduction to LEX		08-12-25	09-12-25	08-12-25
8		Examples of LEX programs		11-12-25	10-12-25	9-12-25
9	2	Introduction to syntax analysis	7	12-12-25	13-12-25	12-12-25
10		Role of parser		15-12-25	16-12-25	15-12-25
11		Use of context free grammar (CFG) in the specification of programming languages		18-12-25	17-12-25	16-12-25
12		Techniques for writing grammars for programming languages (removal of left recursion)		19-12-25	20-12-25	19-12-25
13		Non-context free constructs in programming languages		22-12-25	23-12-25	22-12-25
14		Parse tree and ambiguity		26-12-25	27-12-25	23-12-25
15		Examples of programming languages grammars		29-12-25	30-12-25	26-12-25
16	3	TOP down parsing	7	01-01-26	31-12-25	29-12-25
17		FIRST & FOLLOW sets		08-01-26	07-01-26	30-12-25
18		LL(1) conditions		09-01-26	13-01-26	02-01-26
19		Predictive parsing		12-01-26	21-01-26	05-01-26
20		Recursive descent parsing		22-01-26	24-01-26	06-01-26
21		Error recovery, LR parsing-handle puring		23-01-26	28-01-26	09-01-26
22		Shift-reduce parsing, viable prefixes, valid items		29-01-26	04-02-26	12-01-26
23		LR(0) automation, LR parsing algorithm, SLR(1)		30-01-26	11-02-26	13-01-26
24		LR(1), LALR(1) parsing		06-02-26	17-02-26	16-01-26
25		YACC, error recovery with YACC and examples of YACC specifications		16-02-26	18-02-26	19-01-26
26	4	Syntax directed definitions (attribute grammars)	6	19-02-26	21-02-26	20-01-26
27		Synthesized and inherited attributes		20-02-26	24-02-26	23-01-26
28		Examples of SDDs		23-02-26	25-02-26	27-01-26
29		Evaluation orders for attributes of an SDD, dependency graphs		26-02-26	28-02-26	30-01-26
30		S-tributed and L-attributed SDDs and their implementation using LR parsers		27-02-26	03-03-26	02-02-26
31		Recursive descent parsers		02-03-26	07-03-26	06-02-26
32	5	Semantic analysis	6	06-03-26	10-03-26	10-02-26
33		Symbol table and their data structures		09-03-26	11-03-26	16-02-26
34		Representation of 'scope', semantic analysis of expressions, assignment, and control flow statements		12-03-26	14-03-26	20-02-26

35	5	Declaration of variables and functions, function calls, etc. using S- and L- attributed SDDs	6	13-03-26	17-03-26	23-02-26
36		Semantic error recovery		16-03-26	18-03-26	24-02-26
37	6	Intermediate code generation		19-03-26	21-03-26	27-02-26
38		Different intermediate code generations - quadruples, triples, trees, flow graphs		23-03-26	24-03-26	02-03-26
39		SSA forms, and their uses. Translation of expressions and assignment statements		27-03-26	25-03-26	06-03-26
40		Translation of control flow statements - if-then-else, while-do and switch		24-11-25	28-03-26	09-03-26
41		Short circuit code and control flow translation of Boolean expressions		27-11-25	25-11-25	12-03-26
42		Back patching - examples to illustrate intermediate code generation for all constructs		28-11-25	26-11-25	13-03-26
43	7	Runtime environments	3	01-12-25	29-11-25	16-03-26
44		Stack allocation of space and activation records		04-12-25	02-12-25	19-03-26
45		Access to non-local data on the stack in the case of procedures with and without nesting of procedures		05-12-25	03-12-25	23-03-26
46	8	Introduction to machine code generation and optimization	2	08-12-25	06-12-25	27-03-26
47		Simple machine code generation		11-12-25	09-12-25	24-11-25
48		Examples of machine independent code optimizations		11-12-25	10-12-25	25-11-25

Subject Name : Compliler Design(EVEN 2025-26) Subject code : 303105349

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE4	6CSE5	6CSE6
				Planned Date	Planned Date	Planned Date
1	1	Overview of Compilation	8	24-11-25	25-11-25	24-11-25
2		The structure of compiler and applications of compiler technology		27-11-25	26-11-25	25-11-25
3		Lexical Analysis		28-11-25	29-11-25	28-11-25
4		The role of lexical analyzer		01-12-25	02-12-25	01-12-25
5		Specification of tokens, recognition of tokens		04-12-25	03-12-25	02-12-25
6		Hand-written lexical analyzers		05-12-25	06-12-25	05-12-25
7		Introduction to LEX		08-12-25	09-12-25	08-12-25
8		Examples of LEX programs		11-12-25	10-12-25	9-12-25
9	2	Introduction to syntax analysis	7	12-12-25	13-12-25	12-12-25
10		Role of parser		15-12-25	16-12-25	15-12-25
11		Use of context free grammar (CFG) in the specification of programming languages		18-12-25	17-12-25	16-12-25
12		Techniques for writing grammars for programming languages (removal of left recursion)		19-12-25	20-12-25	19-12-25
13		Non-context free constructs in programming languages		22-12-25	23-12-25	22-12-25
14		Parse tree and ambiguity		26-12-25	27-12-25	23-12-25
15		Examples of programming languages grammars		29-12-25	30-12-25	26-12-25
16	3	TOP down parsing	7	01-01-26	31-12-25	29-12-25
17		FIRST & FOLLOW sets		08-01-26	07-01-26	30-12-25
18		LL(1) conditions		09-01-26	13-01-26	02-01-26
19		Predictive parsing		12-01-26	21-01-26	05-01-26
20		Recursive descent parsing		22-01-26	24-01-26	06-01-26
21		Error recovery, LR parsing-handle puring		23-01-26	28-01-26	09-01-26
22		Shift-reduce parsing, viable prefixes, valid items		29-01-26	04-02-26	12-01-26
23		LR(0) automation, LR parsing algorithm, SLR(1)		30-01-26	11-02-26	13-01-26
24		LR(1), LALR(1) parsing		06-02-26	17-02-26	16-01-26
25		YACC, error recovery with YACC and examples of YACC specifications		16-02-26	18-02-26	19-01-26
26	4	Syntax directed definitions (attribute grammars)	6	19-02-26	21-02-26	20-01-26
27		Synthesized and inherited attributes		20-02-26	24-02-26	23-01-26
28		Examples of SDDs		23-02-26	25-02-26	27-01-26
29		Evaluation orders for attributes of an SDD, dependency graphs		26-02-26	28-02-26	30-01-26
30		S-tributed and L-attributed SDDs and their implementation using LR parsers		27-02-26	03-03-26	02-02-26
31		Recursive descent parsers		02-03-26	07-03-26	06-02-26
32		Semantic analysis		06-03-26	10-03-26	10-02-26
33		Symbol table and their data structures		09-03-26	11-03-26	16-02-26
34		Representation of 'scope', semantic analysis of		12-03-26	14-03-26	20-02-26

		expressions, assignment, and control flow statements	6			
35		Declaration of variables and functions, function calls, etc. using S- and L- attributed SDDs		13-03-26	17-03-26	23-02-26
36	5	Semantic error recovery		16-03-26	18-03-26	24-02-26
37		Intermediate code generation		19-03-26	21-03-26	27-02-26
38		Different intermediate code generations - quadruples, triples, trees, flow graphs		23-03-26	24-03-26	02-03-26
39		SSA forms, and their uses. Translation of expressions and assignment statements	6	27-03-26	25-03-26	06-03-26
40		Translation of control flow statements - if-then-else, while-do and switch		24-11-25	28-03-26	09-03-26
41		Short circuit code and control flow translation of Boolean expressions		27-11-25	25-11-25	12-03-26
42	6	Back patching - examples to illustrate intermediate code generation for all constructs		28-11-25	26-11-25	13-03-26
43		Runtime environments		01-12-25	29-11-25	16-03-26
44		Stack allocation of space and activation records	3	04-12-25	02-12-25	19-03-26
45	7	Access to non-local data on the stack in the case of procedures with and without nesting of procedures		05-12-25	03-12-25	23-03-26
46		Introduction to machine code generation and optimization		08-12-25	06-12-25	27-03-26
47		Simple machine code generation	2	11-12-25	09-12-25	24-11-25
48	8	Examples of machine independent code optimizations		11-12-25	10-12-25	25-11-25

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Semester : 6th Branch : CSE
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SR NO.	UNIT	TOPIC	Hrs	6CSE7	6CSE8	6CSE9
				Planned Date	Planned Date	Planned Date
1	1	Overview of Compilation	8	24-11-25	25-11-25	24-11-25
2		The structure of compiler and applications of compiler technology		27-11-25	26-11-25	25-11-25
3		Lexical Analysis		28-11-25	29-11-25	28-11-25
4		The role of lexical analyzer		01-12-25	02-12-25	01-12-25
5		Specification of tokens, recognition of tokens		04-12-25	03-12-25	02-12-25
6		Hand-written lexical analyzers		05-12-25	06-12-25	05-12-25
7		Introduction to LEX		08-12-25	09-12-25	08-12-25
8		Examples of LEX programs		11-12-25	10-12-25	9-12-25
9	2	Introduction to syntax analysis	7	12-12-25	13-12-25	12-12-25
10		Role of parser		15-12-25	16-12-25	15-12-25
11		Use of context free grammar (CFG) in the specification of programming languages		18-12-25	17-12-25	16-12-25
12		Techniques for writing grammars for programming languages (removal of left recursion)		19-12-25	20-12-25	19-12-25
13		Non-context free constructs in programming languages		22-12-25	23-12-25	22-12-25
14		Parse tree and ambiguity		26-12-25	27-12-25	23-12-25
15		Examples of programming languages grammars		29-12-25	30-12-25	26-12-25
16	3	TOP down parsing	7	01-01-26	31-12-25	29-12-25
17		FIRST & FOLLOW sets		08-01-26	07-01-26	30-12-25
18		LL(1) conditions		09-01-26	13-01-26	02-01-26
19		Predictive parsing		12-01-26	21-01-26	05-01-26
20		Recursive descent parsing		22-01-26	24-01-26	06-01-26
21		Error recovery, LR parsing-handle puring		23-01-26	28-01-26	09-01-26
22		Shift-reduce parsing, viable prefixes, valid items		29-01-26	04-02-26	12-01-26
23		LR(0) automation, LR parsing algorithm, SLR(1)		30-01-26	11-02-26	13-01-26
24		LR(1), LALR(1) parsing		06-02-26	17-02-26	16-01-26
25		YACC, error recovery with YACC and examples of YACC specifications		16-02-26	18-02-26	19-01-26
26	4	Syntax directed definitions (attribute grammars)	6	19-02-26	21-02-26	20-01-26
27		Synthesized and inherited attributes		20-02-26	24-02-26	23-01-26
28		Examples of SDDs		23-02-26	25-02-26	27-01-26
29		Evaluation orders for attributes of an SDD, dependency graphs		26-02-26	28-02-26	30-01-26
30		S-tributed and L-attributed SDDs and their implementation using LR parsers		27-02-26	03-03-26	02-02-26
31		Recursive descent parsers		02-03-26	07-03-26	06-02-26
32		Semantic analysis		06-03-26	10-03-26	10-02-26
33		Symbol table and their data structures		09-03-26	11-03-26	16-02-26
34		Representation of 'scope', semantic analysis of expressions, assignment,		12-03-26	14-03-26	20-02-26

		and control flow statements	6			
35		Declaration of variables and functions, function calls, etc. using S- and L- attributed SDDs		13-03-26	17-03-26	23-02-26
36	5	Semantic error recovery		16-03-26	18-03-26	24-02-26
37		Intermediate code generation		19-03-26	21-03-26	27-02-26
38		Different intermediate code generations - quadruples, triples, trees, flow graphs		23-03-26	24-03-26	02-03-26
39		SSA forms, and their uses. Translation of expressions and assignment statements	6	27-03-26	25-03-26	06-03-26
40		Translation of control flow statements - if-then-else, while-do and switch		24-11-25	28-03-26	09-03-26
41		Short circuit code and control flow translation of Boolean expressions		27-11-25	25-11-25	12-03-26
42	6	Back patching - examples to illustrate intermediate code generation for all constructs		28-11-25	26-11-25	13-03-26
43		Runtime environments		01-12-25	29-11-25	16-03-26
44		Stack allocation of space and activation records	3	04-12-25	02-12-25	19-03-26
45	7	Access to non-local data on the stack in the case of procedures with and without nesting of procedures		05-12-25	03-12-25	23-03-26
46		Introduction to machine code generation and optimization		08-12-25	06-12-25	27-03-26
47		Simple machine code generation	2	11-12-25	09-12-25	24-11-25
48	8	Examples of machine independent code optimizations		11-12-25	10-12-25	25-11-25

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SR NO.	UNIT	TOPIC	Hrs	6CSE10 Planned Date	6CSE11 Planned Date	6CSE12 Planned Date
1	1	Overview of Compilation	8	24-11-25	25-11-25	24-11-25
2		The structure of compiler and applications of compiler technology		27-11-25	26-11-25	25-11-25
3		Lexical Analysis		28-11-25	29-11-25	28-11-25
4		The role of lexical analyzer		01-12-25	02-12-25	01-12-25
5		Specification of tokens, recognition of tokens		04-12-25	03-12-25	02-12-25
6		Hand-written lexical analyzers		05-12-25	06-12-25	05-12-25
7		Introduction to LEX		08-12-25	09-12-25	08-12-25
8		Examples of LEX programs		11-12-25	10-12-25	9-12-25
9	2	Introduction to syntax analysis	7	12-12-25	13-12-25	12-12-25
10		Role of parser		15-12-25	16-12-25	15-12-25
11		Use of context free grammar (CFG) in the specification of programming languages		18-12-25	17-12-25	16-12-25
12		Techniques for writing grammars for programming languages (removal of left recursion)		19-12-25	20-12-25	19-12-25
13		Non-context free constructs in programming languages		22-12-25	23-12-25	22-12-25
14		Parse tree and ambiguity		26-12-25	27-12-25	23-12-25
15		Examples of programming languages grammars		29-12-25	30-12-25	26-12-25
16	3	TOP down parsing	7	01-01-26	31-12-25	29-12-25
17		FIRST & FOLLOW sets		08-01-26	07-01-26	30-12-25
18		LL(1) conditions		09-01-26	13-01-26	02-01-26
19		Predictive parsing		12-01-26	21-01-26	05-01-26
20		Recursive descent parsing		22-01-26	24-01-26	06-01-26
21		Error recovery, LR parsing-handle puring		23-01-26	28-01-26	09-01-26
22		Shift-reduce parsing, viable prefixes, valid items		29-01-26	04-02-26	12-01-26
23		LR(0) automation, LR parsing algorithm, SLR(1)		30-01-26	11-02-26	13-01-26
24		LR(1), LALR(1) parsing		06-02-26	17-02-26	16-01-26
25		YACC, error recovery with YACC and examples of YACC specifications		16-02-26	18-02-26	19-01-26
26	4	Syntax directed definitions (attribute grammars)	6	19-02-26	21-02-26	20-01-26
27		Synthesized and inherited attributes		20-02-26	24-02-26	23-01-26
28		Examples of SDDs		23-02-26	25-02-26	27-01-26
29		Evaluation orders for attributes of an SDD, dependency graphs		26-02-26	28-02-26	30-01-26
30		S-tributed and L-attributed SDDs and their implementation using LR parsers		27-02-26	03-03-26	02-02-26
31		Recursive descent parsers		02-03-26	07-03-26	06-02-26
32		Semantic analysis		06-03-26	10-03-26	10-02-26
33		Symbol table and their data structures		09-03-26	11-03-26	16-02-26
34		Representation of 'scope', semantic analysis of expressions, assignment,		12-03-26	14-03-26	20-02-26

		and control flow statements	6			
35		Declaration of variables and functions, function calls, etc. using S- and L- attributed SDDs		13-03-26	17-03-26	23-02-26
36	5	Semantic error recovery		16-03-26	18-03-26	24-02-26
37		Intermediate code generation		19-03-26	21-03-26	27-02-26
38		Different intermediate code generations - quadruples, triples, trees, flow graphs		23-03-26	24-03-26	02-03-26
39		SSA forms, and their uses. Translation of expressions and assignment statements	6	27-03-26	25-03-26	06-03-26
40		Translation of control flow statements - if-then-else, while-do and switch		24-11-25	28-03-26	09-03-26
41		Short circuit code and control flow translation of Boolean expressions		27-11-25	25-11-25	12-03-26
42	6	Back patching - examples to illustrate intermediate code generation for all constructs		28-11-25	26-11-25	13-03-26
43		Runtime environments		01-12-25	29-11-25	16-03-26
44		Stack allocation of space and activation records	3	04-12-25	02-12-25	19-03-26
45	7	Access to non-local data on the stack in the case of procedures with and without nesting of procedures		05-12-25	03-12-25	23-03-26
46		Introduction to machine code generation and optimization		08-12-25	06-12-25	27-03-26
47		Simple machine code generation	2	11-12-25	09-12-25	24-11-25
48	8	Examples of machine independent code optimizations		11-12-25	10-12-25	25-11-25

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SR NO.	UNIT	TOPIC	Hrs	6CSE13 Planned Date	6CSE14 Planned Date	6CSE14 Planned Date
1	1	Overview of Compilation	8	24-11-25	25-11-25	24-11-25
2		The structure of compiler and applications of compiler technology		27-11-25	26-11-25	25-11-25
3		Lexical Analysis		28-11-25	29-11-25	28-11-25
4		The role of lexical analyzer		01-12-25	02-12-25	01-12-25
5		Specification of tokens, recognition of tokens		04-12-25	03-12-25	02-12-25
6		Hand-written lexical analyzers		05-12-25	06-12-25	05-12-25
7		Introduction to LEX		08-12-25	09-12-25	08-12-25
8		Examples of LEX programs		11-12-25	10-12-25	9-12-25
9	2	Introduction to syntax analysis	7	12-12-25	13-12-25	12-12-25
10		Role of parser		15-12-25	16-12-25	15-12-25
11		Use of context free grammar (CFG) in the specification of programming languages		18-12-25	17-12-25	16-12-25
12		Techniques for writing grammars for programming languages (removal of left recursion)		19-12-25	20-12-25	19-12-25
13		Non-context free constructs in programming languages		22-12-25	23-12-25	22-12-25
14		Parse tree and ambiguity		26-12-25	27-12-25	23-12-25
15		Examples of programming languages grammars		29-12-25	30-12-25	26-12-25
16	3	TOP down parsing	7	01-01-26	31-12-25	29-12-25
17		FIRST & FOLLOW sets		08-01-26	07-01-26	30-12-25
18		LL(1) conditions		09-01-26	13-01-26	02-01-26
19		Predictive parsing		12-01-26	21-01-26	05-01-26
20		Recursive descent parsing		22-01-26	24-01-26	06-01-26
21		Error recovery, LR parsing-handle puring		23-01-26	28-01-26	09-01-26
22		Shift-reduce parsing, viable prefixes, valid items		29-01-26	04-02-26	12-01-26
23		LR(0) automation, LR parsing algorithm, SLR(1)		30-01-26	11-02-26	13-01-26
24		LR(1), LALR(1) parsing		06-02-26	17-02-26	16-01-26
25		YACC, error recovery with YACC and examples of YACC specifications		16-02-26	18-02-26	19-01-26
26	4	Syntax directed definitions (attribute grammars)	6	19-02-26	21-02-26	20-01-26
27		Synthesized and inherited attributes		20-02-26	24-02-26	23-01-26
28		Examples of SDDs		23-02-26	25-02-26	27-01-26
29		Evaluation orders for attributes of an SDD, dependency graphs		26-02-26	28-02-26	30-01-26
30		S-tributed and L-attributed SDDs and their implementation using LR parsers		27-02-26	03-03-26	02-02-26
31		Recursive descent parsers		02-03-26	07-03-26	06-02-26
32		Semantic analysis		06-03-26	10-03-26	10-02-26
33		Symbol table and their data structures		09-03-26	11-03-26	16-02-26
34		Representation of 'scope', semantic analysis of expressions, assignment,		12-03-26	14-03-26	20-02-26

		and control flow statements	6			
35		Declaration of variables and functions, function calls, etc. using S- and L- attributed SDDs		13-03-26	17-03-26	23-02-26
36	5	Semantic error recovery		16-03-26	18-03-26	24-02-26
37		Intermediate code generation		19-03-26	21-03-26	27-02-26
38		Different intermediate code generations - quadruples, triples, trees, flow graphs		23-03-26	24-03-26	02-03-26
39		SSA forms, and their uses. Translation of expressions and assignment statements	6	27-03-26	25-03-26	06-03-26
40		Translation of control flow statements - if-then-else, while-do and switch		24-11-25	28-03-26	09-03-26
41		Short circuit code and control flow translation of Boolean expressions		27-11-25	25-11-25	12-03-26
42	6	Back patching - examples to illustrate intermediate code generation for all constructs		28-11-25	26-11-25	13-03-26
43		Runtime environments		01-12-25	29-11-25	16-03-26
44		Stack allocation of space and activation records	3	04-12-25	02-12-25	19-03-26
45	7	Access to non-local data on the stack in the case of procedures with and without nesting of procedures		05-12-25	03-12-25	23-03-26
46		Introduction to machine code generation and optimization		08-12-25	06-12-25	27-03-26
47		Simple machine code generation	2	11-12-25	09-12-25	24-11-25
48	8	Examples of machine independent code optimizations		11-12-25	10-12-25	25-11-25

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Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE1
				Planned Date
1	1	Program to implement Lexical Analyzer	2	28-11-25
2	2	Program to count digits, vowels and symbols in C.	2	05-12-25
3	3	Program to check validation of username and password in C	2	12-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	19-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	26-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	02-01-26
7	7	Program to implement LALR Parsing in C.	2	09-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	16-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	23-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	30-01-26

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SR NO.	Practical No.	Practical Title	Lab Hours	6CSE2
				Planned Date
1	1	Program to implement Lexical Analyzer	2	24-11-25
2	2	Program to count digits, vowels and symbols in C.	2	01-12-25
3	3	Program to check validation of username and password in C	2	08-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	15-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	22-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	29-12-25
7	7	Program to implement LALR Parsing in C.	2	05-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	12-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	19-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	02-02-26

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Semester : 6th Branch : CSE

Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE3 Planned Date
1	1	Program to implement Lexical Analyzer	2	25-11-25
2	2	Program to count digits, vowels and symbols in C.	2	02-12-25
3	3	Program to check validation of username and password in C	2	09-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	16-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	23-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	30-12-25
7	7	Program to implement LALR Parsing in C.	2	06-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	13-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	20-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	27-01-26

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Semester : 6th Branch : CSE
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SR NO.	ractical No.	Practical Title	Lab Hours	6CSE4
				Planned Date
1	1	Program to implement Lexical Analyzer	2	28-11-25
2	2	Program to count digits, vowels and symbols in C.	2	05-12-25
3	3	Program to check validation of username and password in C	2	12-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	19-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	26-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	02-01-26
7	7	Program to implement LALR Parsing in C.	2	09-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	16-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	23-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	30-01-26

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Semester : 6th Branch : CSE

Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE5 Planned Date
1	1	Program to implement Lexical Analyzer	2	24-11-25
2	2	Program to count digits, vowels and symbols in C.	2	01-12-25
3	3	Program to check validation of username and password in C	2	08-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	15-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	22-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	29-12-25
7	7	Program to implement LALR Parsing in C.	2	05-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	12-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	19-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	02-02-26

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Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE6 Planned Date
1	1	Program to implement Lexical Analyzer	2	25-11-25
2	2	Program to count digits, vowels and symbols in C.	2	02-12-25
3	3	Program to check validation of username and password in C	2	09-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	16-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	23-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	30-12-25
7	7	Program to implement LALR Parsing in C.	2	06-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	13-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	20-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	27-01-26

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Semester : 6th Branch : CSE

Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE7 Planned Date
1	1	Program to implement Lexical Analyzer	2	28-11-25
2	2	Program to count digits, vowels and symbols in C.	2	05-12-25
3	3	Program to check validation of username and password in C	2	12-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	19-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	26-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	02-01-26
7	7	Program to implement LALR Parsing in C.	2	09-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	16-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	23-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	30-01-26

Subject Name : Compiler Design Laboratory(EVEN 2025-26) Subject code : 303105350

Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE8 Planned Date
1	1	Program to implement Lexical Analyzer	2	24-11-25
2	2	Program to count digits, vowels and symbols in C.	2	01-12-25
3	3	Program to check validation of username and password in C	2	08-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	15-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	22-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	29-12-25
7	7	Program to implement LALR Parsing in C.	2	05-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	12-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	19-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	02-02-26

Subject Name : Compiler Design Laboratory(EVEN 2025-26) Subject code : 303105350

Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE9 Planned Date
1	1	Program to implement Lexical Analyzer	2	25-11-25
2	2	Program to count digits, vowels and symbols in C.	2	02-12-25
3	3	Program to check validation of username and password in C	2	09-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	16-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	23-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	30-12-25
7	7	Program to implement LALR Parsing in C.	2	06-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	13-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	20-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	27-01-26

Subject Name : Compiler Design Laboratory(EVEN 2025-26) Subject code : 303105350

Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE10 Planned Date
1	1	Program to implement Lexical Analyzer	2	28-11-25
2	2	Program to count digits, vowels and symbols in C.	2	05-12-25
3	3	Program to check validation of username and password in C	2	12-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	19-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	26-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	02-01-26
7	7	Program to implement LALR Parsing in C.	2	09-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	16-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	23-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	30-01-26

Subject Name : Compiler Design Laboratory(EVEN 2025-26) Subject code : 303105350

Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE11 Planned Date
1	1	Program to implement Lexical Analyzer	2	24-11-25
2	2	Program to count digits, vowels and symbols in C.	2	01-12-25
3	3	Program to check validation of username and password in C	2	08-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	15-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	22-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	29-12-25
7	7	Program to implement LALR Parsing in C.	2	05-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	12-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	19-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	02-02-26

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Semester : 6th Branch : CSE
Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE12
				Planned Date
1	1	Program to implement Lexical Analyzer	2	25-11-25
2	2	Program to count digits, vowels and symbols in C.	2	02-12-25
3	3	Program to check validation of username and password in C	2	09-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	16-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	23-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	30-12-25
7	7	Program to implement LALR Parsing in C.	2	06-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	13-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	20-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	27-01-26

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Semester : 6th Branch : CSE

Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE13 Planned Date
1	1	Program to implement Lexical Analyzer	2	28-11-25
2	2	Program to count digits, vowels and symbols in C.	2	05-12-25
3	3	Program to check validation of username and password in C	2	12-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	19-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	26-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	02-01-26
7	7	Program to implement LALR Parsing in C.	2	09-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	16-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	23-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	30-01-26

Subject Name : Compiler Design Laboratory(EVEN 2025-26) Subject code : 303105350

Semester : 6th Branch : CSE

Lecture/Week:3 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE14 Planned Date
1	1	Program to implement Lexical Analyzer	2	24-11-25
2	2	Program to count digits, vowels and symbols in C.	2	01-12-25
3	3	Program to check validation of username and password in C	2	08-12-25
4	4	Program to implement Predictive Parsing LL (1) in C.	2	15-12-25
5	5	Program to implement Recursive Descent Parsing in C.	2	22-12-25
6	6	Program to implement Operator Precedence Parsing in C.	2	29-12-25
7	7	Program to implement LALR Parsing in C.	2	05-01-26
8	8	To study Lexical Analyzer Generator (LEX) and FLEX (Fast Lexical Analyzer)	2	12-01-26
9	9	Implement following programs using LEX. A. Create a Lexer to take input from text file and count no. of characters, no. of lines and no. of words.B. Write a Lex program to count number of vowels and consonants in a given input string.	2	19-01-26
10	10	Implement following programs using LEX.A. Write a Lex program to print out all numbers from the given file.B. Write a Lex program to print out 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.	2	02-02-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE1	6CSE2
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	24-11-25	25-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		27-11-25	26-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		28-11-25	29-11-25
4		JavaScript Fundamentals & ES6+ Features Review		01-12-25	02-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		04-12-25	03-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		05-12-25	06-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		08-12-25	09-12-25
8		CRUD Operations: Read (find, query selectors, projection).		11-12-25	10-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	12-12-25	13-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		15-12-25	16-12-25
11	3	Introduction to Node.js and its Architecture		18-12-25	17-12-25
12		Node.js Modules: Core Modules (fs		19-12-25	20-12-25
13		NPM (Node Package Manager) and package.json		22-12-25	23-12-25
14		Introduction to Express.js		26-12-25	27-12-25
15		Express.js Routing		29-12-25	30-12-25
16		Express.js Middleware	7	01-01-26	31-12-25
17		Building a RESTful API with Express.js		08-01-26	07-01-26
18		Connecting Express to MongoDB with Mongoose		09-01-26	13-01-26
19		Error Handling in Express		12-01-26	21-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		22-01-26	24-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		23-01-26	28-01-26
22		Environment Variables and API Security		29-01-26	04-02-26
23	4	Introduction to SPAs and Angular		30-01-26	11-02-26
24		Creating Your First Angular App and Understanding Components		06-02-26	17-02-26
25		Angular Templates		16-02-26	18-02-26
26		Angular Structural Directives (*ngIf	5	19-02-26	21-02-26
27		Component Interaction (		20-02-26	24-02-26
28		Angular Services and Dependency Injection		23-02-26	25-02-26
29		Angular Routing - Part 1		26-02-26	28-02-26
30		Angular Routing - Part 2		27-02-26	03-03-26
31		Introduction to RxJS and Observables		02-03-26	07-03-26
32		Making HTTP Requests with HttpClient		06-03-26	10-03-26
33		Handling HTTP POST		09-03-26	11-03-26

34	5	Template-Driven Forms	5	12-03-26	14-03-26
35		Reactive Forms		13-03-26	17-03-26
36		Reactive Forms Validation		16-03-26	18-03-26
37		Integrating the Angular Frontend with the Express.js API	5	19-03-26	21-03-26
38		Handling CORS (Cross-Origin Resource Sharing)		23-03-26	24-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		27-03-26	25-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		24-11-25	28-03-26
41	6	Real-time Data Communication with WebSockets and Socket.IO		27-11-25	25-11-25
42		Introduction to Testing: Unit Testing Concepts		28-11-25	26-11-25
43		Preparing the Application for Deployment: Production Builds	3	01-12-25	29-11-25
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		01-12-25	29-11-25
45		Security Best Practices and Version Control with Git		05-12-25	03-12-25
46		Final Project: Requirement Analysis and Application Planning	3	04-12-25	02-12-25
47		Final Project: Guided Session for Backend Development		05-12-25	03-12-25

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE3	6CSE4
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	24-11-25	24-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		25-11-25	27-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		28-11-25	28-11-25
4		JavaScript Fundamentals & ES6+ Features Review		01-12-25	01-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		02-12-25	04-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		05-12-25	05-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		08-12-25	08-12-25
8		CRUD Operations: Read (find, query selectors, projection).		9-12-25	11-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	12-12-25	12-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		15-12-25	15-12-25
11	3	Introduction to Node.js and its Architecture		16-12-25	18-12-25
12		Node.js Modules: Core Modules (fs		19-12-25	19-12-25
13		NPM (Node Package Manager) and package.json		22-12-25	22-12-25
14		Introduction to Express.js		23-12-25	26-12-25
15		Express.js Routing		26-12-25	29-12-25
16		Express.js Middleware	7	29-12-25	01-01-26
17		Building a RESTful API with Express.js		30-12-25	08-01-26
18		Connecting Express to MongoDB with Mongoose		02-01-26	09-01-26
19		Error Handling in Express		05-01-26	12-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		06-01-26	22-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		09-01-26	23-01-26
22		Environment Variables and API Security		12-01-26	29-01-26
23	4	Introduction to SPAs and Angular		13-01-26	30-01-26
24		Creating Your First Angular App and Understanding Components		16-01-26	06-02-26
25		Angular Templates		19-01-26	16-02-26
26		Angular Structural Directives (*ngIf	5	20-01-26	19-02-26
27		Component Interaction (		23-01-26	20-02-26
28		Angular Services and Dependency Injection		27-01-26	23-02-26
29		Angular Routing - Part 1		30-01-26	26-02-26
30		Angular Routing - Part 2		02-02-26	27-02-26
31		Introduction to RxJS and Observables		06-02-26	02-03-26
32		Making HTTP Requests with HttpClient		10-02-26	06-03-26
33		Handling HTTP POST		16-02-26	09-03-26

34	5	Template-Driven Forms	5	20-02-26	12-03-26
35		Reactive Forms		23-02-26	13-03-26
36		Reactive Forms Validation		24-02-26	16-03-26
37		Integrating the Angular Frontend with the Express.js API	5	27-02-26	19-03-26
38		Handling CORS (Cross-Origin Resource Sharing)		02-03-26	23-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		06-03-26	27-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		09-03-26	24-11-25
41	6	Real-time Data Communication with WebSockets and Socket.IO		12-03-26	27-11-25
42		Introduction to Testing: Unit Testing Concepts		13-03-26	28-11-25
43		Preparing the Application for Deployment: Production Builds	3	16-03-26	01-12-25
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		16-03-26	01-12-25
45		Security Best Practices and Version Control with Git		23-03-26	05-12-25
46		Final Project: Requirement Analysis and Application Planning	3	19-03-26	04-12-25
47		Final Project: Guided Session for Backend Development		23-03-26	05-12-25

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE5	6CSE6
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	25-11-25	24-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		26-11-25	25-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		29-11-25	28-11-25
4		JavaScript Fundamentals & ES6+ Features Review		02-12-25	01-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		03-12-25	02-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		06-12-25	05-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		09-12-25	08-12-25
8		CRUD Operations: Read (find, query selectors, projection).		10-12-25	9-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	13-12-25	12-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		16-12-25	15-12-25
11	3	Introduction to Node.js and its Architecture		17-12-25	16-12-25
12		Node.js Modules: Core Modules (fs		20-12-25	19-12-25
13		NPM (Node Package Manager) and package.json		23-12-25	22-12-25
14		Introduction to Express.js		27-12-25	23-12-25
15		Express.js Routing		30-12-25	26-12-25
16		Express.js Middleware	7	31-12-25	29-12-25
17		Building a RESTful API with Express.js		07-01-26	30-12-25
18		Connecting Express to MongoDB with Mongoose		13-01-26	02-01-26
19		Error Handling in Express		21-01-26	05-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		24-01-26	06-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		28-01-26	09-01-26
22		Environment Variables and API Security		04-02-26	12-01-26
23	4	Introduction to SPAs and Angular		11-02-26	13-01-26
24		Creating Your First Angular App and Understanding Components		17-02-26	16-01-26
25		Angular Templates		18-02-26	19-01-26
26		Angular Structural Directives (*ngIf	5	21-02-26	20-01-26
27		Component Interaction (		24-02-26	23-01-26
28		Angular Services and Dependency Injection		25-02-26	27-01-26
29		Angular Routing - Part 1		28-02-26	30-01-26
30		Angular Routing - Part 2		03-03-26	02-02-26
31		Introduction to RxJS and Observables		07-03-26	06-02-26
32		Making HTTP Requests with HttpClient		10-03-26	10-02-26

33	5	Handling HTTP POST	5	11-03-26	16-02-26
34		Template-Driven Forms		14-03-26	20-02-26
35		Reactive Forms		17-03-26	23-02-26
36		Reactive Forms Validation		18-03-26	24-02-26
37		Integrating the Angular Frontend with the Express.js API	5	21-03-26	27-02-26
38		Handling CORS (Cross-Origin Resource Sharing)		24-03-26	02-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		25-03-26	06-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		28-03-26	09-03-26
41	6	Real-time Data Communication with WebSockets and Socket.IO		25-11-25	12-03-26
42		Introduction to Testing: Unit Testing Concepts		26-11-25	13-03-26
43		Preparing the Application for Deployment: Production Builds	3	29-11-25	16-03-26
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		29-11-25	16-03-26
45		Security Best Practices and Version Control with Git		03-12-25	23-03-26
46		Final Project: Requirement Analysis and Application Planning	3	02-12-25	19-03-26
47		Final Project: Guided Session for Backend Development		03-12-25	23-03-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE7	6CSE8
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	24-11-25	25-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		27-11-25	26-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		28-11-25	29-11-25
4		JavaScript Fundamentals & ES6+ Features Review		01-12-25	02-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		04-12-25	03-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		05-12-25	06-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		08-12-25	09-12-25
8		CRUD Operations: Read (find, query selectors, projection).		11-12-25	10-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	12-12-25	13-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		15-12-25	16-12-25
11	3	Introduction to Node.js and its Architecture		18-12-25	17-12-25
12		Node.js Modules: Core Modules (fs		19-12-25	20-12-25
13		NPM (Node Package Manager) and package.json		22-12-25	23-12-25
14		Introduction to Express.js		26-12-25	27-12-25
15		Express.js Routing		29-12-25	30-12-25
16		Express.js Middleware	7	01-01-26	31-12-25
17		Building a RESTful API with Express.js		08-01-26	07-01-26
18		Connecting Express to MongoDB with Mongoose		09-01-26	13-01-26
19		Error Handling in Express		12-01-26	21-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		22-01-26	24-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		23-01-26	28-01-26
22		Environment Variables and API Security		29-01-26	04-02-26
23	4	Introduction to SPAs and Angular		30-01-26	11-02-26
24		Creating Your First Angular App and Understanding Components		06-02-26	17-02-26
25		Angular Templates		16-02-26	18-02-26
26		Angular Structural Directives (*ngIf	5	19-02-26	21-02-26
27		Component Interaction (		20-02-26	24-02-26
28		Angular Services and Dependency Injection		23-02-26	25-02-26
29		Angular Routing - Part 1		26-02-26	28-02-26
30		Angular Routing - Part 2		27-02-26	03-03-26
31		Introduction to RxJS and Observables		02-03-26	07-03-26
32		Making HTTP Requests with HttpClient		06-03-26	10-03-26

33	5	Handling HTTP POST	5	09-03-26	11-03-26
34		Template-Driven Forms		12-03-26	14-03-26
35		Reactive Forms		13-03-26	17-03-26
36		Reactive Forms Validation		16-03-26	18-03-26
37		Integrating the Angular Frontend with the Express.js API	5	19-03-26	21-03-26
38		Handling CORS (Cross-Origin Resource Sharing)		23-03-26	24-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		27-03-26	25-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		24-11-25	28-03-26
41	6	Real-time Data Communication with WebSockets and Socket.IO		27-11-25	25-11-25
42		Introduction to Testing: Unit Testing Concepts		28-11-25	26-11-25
43		Preparing the Application for Deployment: Production Builds	3	01-12-25	29-11-25
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		01-12-25	29-11-25
45		Security Best Practices and Version Control with Git		05-12-25	03-12-25
46		Final Project: Requirement Analysis and Application Planning	3	04-12-25	02-12-25
47		Final Project: Guided Session for Backend Development		05-12-25	03-12-25

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE9	6CSE10
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	24-11-25	24-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		25-11-25	27-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		28-11-25	28-11-25
4		JavaScript Fundamentals & ES6+ Features Review		01-12-25	01-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		02-12-25	04-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		05-12-25	05-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		08-12-25	08-12-25
8		CRUD Operations: Read (find, query selectors, projection).		9-12-25	11-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	12-12-25	12-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		15-12-25	15-12-25
11	3	Introduction to Node.js and its Architecture		16-12-25	18-12-25
12		Node.js Modules: Core Modules (fs		19-12-25	19-12-25
13		NPM (Node Package Manager) and package.json		22-12-25	22-12-25
14		Introduction to Express.js		23-12-25	26-12-25
15		Express.js Routing		26-12-25	29-12-25
16		Express.js Middleware	7	29-12-25	01-01-26
17		Building a RESTful API with Express.js		30-12-25	08-01-26
18		Connecting Express to MongoDB with Mongoose		02-01-26	09-01-26
19		Error Handling in Express		05-01-26	12-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		06-01-26	22-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		09-01-26	23-01-26
22		Environment Variables and API Security		12-01-26	29-01-26
23	4	Introduction to SPAs and Angular		13-01-26	30-01-26
24		Creating Your First Angular App and Understanding Components		16-01-26	06-02-26
25		Angular Templates		19-01-26	16-02-26
26		Angular Structural Directives (*ngIf	5	20-01-26	19-02-26
27		Component Interaction (		23-01-26	20-02-26
28		Angular Services and Dependency Injection		27-01-26	23-02-26
29		Angular Routing - Part 1		30-01-26	26-02-26
30		Angular Routing - Part 2		02-02-26	27-02-26
31		Introduction to RxJS and Observables		06-02-26	02-03-26
32		Making HTTP Requests with HttpClient		10-02-26	06-03-26

33	5	Handling HTTP POST	5	16-02-26	09-03-26
34		Template-Driven Forms		20-02-26	12-03-26
35		Reactive Forms		23-02-26	13-03-26
36		Reactive Forms Validation		24-02-26	16-03-26
37		Integrating the Angular Frontend with the Express.js API	5	27-02-26	19-03-26
38		Handling CORS (Cross-Origin Resource Sharing)		02-03-26	23-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		06-03-26	27-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		09-03-26	24-11-25
41	6	Real-time Data Communication with WebSockets and Socket.IO		12-03-26	27-11-25
42		Introduction to Testing: Unit Testing Concepts		13-03-26	28-11-25
43		Preparing the Application for Deployment: Production Builds	3	16-03-26	01-12-25
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		16-03-26	01-12-25
45		Security Best Practices and Version Control with Git		23-03-26	05-12-25
46		Final Project: Requirement Analysis and Application Planning	3	19-03-26	04-12-25
47		Final Project: Guided Session for Backend Development		23-03-26	05-12-25

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE11	6CSE12
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	25-11-25	24-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		26-11-25	25-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		29-11-25	28-11-25
4		JavaScript Fundamentals & ES6+ Features Review		02-12-25	01-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		03-12-25	02-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		06-12-25	05-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		09-12-25	08-12-25
8		CRUD Operations: Read (find, query selectors, projection).		10-12-25	9-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	13-12-25	12-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		16-12-25	15-12-25
11	3	Introduction to Node.js and its Architecture		17-12-25	16-12-25
12		Node.js Modules: Core Modules (fs		20-12-25	19-12-25
13		NPM (Node Package Manager) and package.json		23-12-25	22-12-25
14		Introduction to Express.js		27-12-25	23-12-25
15		Express.js Routing		30-12-25	26-12-25
16		Express.js Middleware	7	31-12-25	29-12-25
17		Building a RESTful API with Express.js		07-01-26	30-12-25
18		Connecting Express to MongoDB with Mongoose		13-01-26	02-01-26
19		Error Handling in Express		21-01-26	05-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		24-01-26	06-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		28-01-26	09-01-26
22		Environment Variables and API Security		04-02-26	12-01-26
23	4	Introduction to SPAs and Angular		11-02-26	13-01-26
24		Creating Your First Angular App and Understanding Components		17-02-26	16-01-26
25		Angular Templates		18-02-26	19-01-26
26		Angular Structural Directives (*ngIf	5	21-02-26	20-01-26
27		Component Interaction (		24-02-26	23-01-26
28		Angular Services and Dependency Injection		25-02-26	27-01-26
29		Angular Routing - Part 1		28-02-26	30-01-26
30		Angular Routing - Part 2		03-03-26	02-02-26
31		Introduction to RxJS and Observables		07-03-26	06-02-26
32		Making HTTP Requests with HttpClient		10-03-26	10-02-26

33	5	Handling HTTP POST	5	11-03-26	16-02-26
34		Template-Driven Forms		14-03-26	20-02-26
35		Reactive Forms		17-03-26	23-02-26
36		Reactive Forms Validation		18-03-26	24-02-26
37		Integrating the Angular Frontend with the Express.js API	5	21-03-26	27-02-26
38		Handling CORS (Cross-Origin Resource Sharing)		24-03-26	02-03-26
39		Handling CORS (Cross-Origin Resource Sharing)		25-03-26	06-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		28-03-26	09-03-26
41	6	Real-time Data Communication with WebSockets and Socket.IO		25-11-25	12-03-26
42		Introduction to Testing: Unit Testing Concepts		26-11-25	13-03-26
43		Preparing the Application for Deployment: Production Builds	3	29-11-25	16-03-26
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).		29-11-25	16-03-26
45		Security Best Practices and Version Control with Git		03-12-25	23-03-26
46		Final Project: Requirement Analysis and Application Planning	3	02-12-25	19-03-26
47		Final Project: Guided Session for Backend Development		03-12-25	23-03-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105385
Semester : 6th Branch : CSE
Lecture/Week:3 Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hr.	6CSE13	6CSE14
				Planned Date	Planned Date
1	1	Intro to Web DeC7:C22velopment, Overview of Web Development: Client- side vs. Server-side technologies.	8	24-11-25	25-11-25
2		MEAN Stack Architecture, Introduction to the MEAN Stack Architecture (MongoDB, Express, Angular, Node.js).		27-11-25	26-11-25
3		Environment Setup: Installing Node.js, npm, VS Code, and Postman.		28-11-25	29-11-25
4		JavaScript Fundamentals & ES6+ Features Review		01-12-25	02-12-25
5	2	Introduction to NoSQL Databases & MongoDB Core Concepts.		04-12-25	03-12-25
6		MongoDB Installation, Configuration, and Mongo Shell Basics.		05-12-25	06-12-25
7		CRUD Operations: Create (insert, insertOne, insertMany).		08-12-25	09-12-25
8		CRUD Operations: Read (find, query selectors, projection).		11-12-25	10-12-25
9		CRUD Operations: Update (updateOne, updateMany, replaceOne).	7	12-12-25	13-12-25
10		CRUD Operations: Delete (deleteOne, deleteMany).		15-12-25	16-12-25
11	3	Introduction to Node.js and its Architecture		18-12-25	17-12-25
12		Node.js Modules: Core Modules (fs		19-12-25	20-12-25
13		NPM (Node Package Manager) and package.json		22-12-25	23-12-25
14		Introduction to Express.js		26-12-25	27-12-25
15		Express.js Routing		29-12-25	30-12-25
16		Express.js Middleware	7	01-01-26	31-12-25
17		Building a RESTful API with Express.js		08-01-26	07-01-26
18		Connecting Express to MongoDB with Mongoose		09-01-26	13-01-26
19		Error Handling in Express		12-01-26	21-01-26
20		API Authentication with JWT (JSON Web Tokens) - Part 1		22-01-26	24-01-26
21		API Authentication with JWT (JSON Web Tokens) - Part 2		23-01-26	28-01-26
22		Environment Variables and API Security		29-01-26	04-02-26
23	4	Introduction to SPAs and Angular		30-01-26	11-02-26
24		Creating Your First Angular App and Understanding Components		06-02-26	17-02-26
25		Angular Templates		16-02-26	18-02-26
26		Angular Structural Directives (*ngIf	5	19-02-26	21-02-26
27		Component Interaction (		20-02-26	24-02-26
28		Angular Services and Dependency Injection		23-02-26	25-02-26
29		Angular Routing - Part 1		26-02-26	28-02-26
30		Angular Routing - Part 2		27-02-26	03-03-26
31		Introduction to RxJS and Observables		02-03-26	07-03-26

32		Making HTTP Requests with HttpClient		06-03-26	10-03-26
33		Handling HTTP POST		09-03-26	11-03-26
34		Template-Driven Forms	5	12-03-26	14-03-26
35		Reactive Forms		13-03-26	17-03-26
36	5	Reactive Forms Validation		16-03-26	18-03-26
37		Integrating the Angular Frontend with the Express.js API		19-03-26	21-03-26
38		Handling CORS (Cross-Origin Resource Sharing)		23-03-26	24-03-26
39		Handling CORS (Cross-Origin Resource Sharing)	5	27-03-26	25-03-26
40		Full-Stack Authentication: Route Guards and HTTP Interceptors		24-11-25	28-03-26
41		Real-time Data Communication with WebSockets and Socket.IO		27-11-25	25-11-25
42		Introduction to Testing: Unit Testing Concepts		28-11-25	26-11-25
43	6	Preparing the Application for Deployment: Production Builds		01-12-25	29-11-25
44		Hosting and Server Setup Options (Heroku, AWS, DigitalOcean).	3	01-12-25	29-11-25
45		Security Best Practices and Version Control with Git		05-12-25	03-12-25
46		Final Project: Requirement Analysis and Application Planning	3	04-12-25	02-12-25
47		Final Project: Guided Session for Backend Development		05-12-25	03-12-25

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE

Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE1
				Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	28-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	05-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	12-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	19-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	26-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	02-01-26
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	09-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	16-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	23-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	30-01-26

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Semester : Branch : CSE

Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE2
				Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	24-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	01-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	08-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	15-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	22-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	29-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	05-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	12-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	19-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	02-02-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE3
				Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	25-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	02-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	09-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	16-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	23-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	30-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	06-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	13-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	20-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	27-01-26

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Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE4
				Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	28-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	05-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	12-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	19-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	26-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	02-01-26
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	09-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	16-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	23-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	30-01-26

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Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE5 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	24-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	01-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	08-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	15-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	22-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	29-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	05-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	12-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	19-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	02-02-26

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Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE6
				Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	25-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	02-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	09-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	16-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	23-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	30-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	06-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	13-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	20-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	27-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE7 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	28-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	05-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	12-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	19-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	26-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	02-01-26
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	09-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	16-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	23-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	30-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE8 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	24-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	01-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	08-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	15-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	22-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	29-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	05-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	12-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	19-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	02-02-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE9 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	25-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	02-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	09-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	16-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	23-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	30-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	06-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	13-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	20-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	27-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE10 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	28-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	05-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	12-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	19-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	26-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	02-01-26
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	09-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	16-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	23-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	30-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE11 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	24-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	01-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	08-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	15-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	22-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	29-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	05-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	12-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	19-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	02-02-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE12 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	25-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	02-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	09-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	16-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	23-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	30-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	06-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	13-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	20-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	27-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE13 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	28-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	05-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	12-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	19-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	26-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	02-01-26
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	09-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	16-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	23-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	30-01-26

Subject Name : (PEC-02) MEA(R)N Stack Web Development (EVEN 2025-26) Subject code : 303105386

Semester : Branch : CSE
Lecture/Week:4 Hrs. Academic Year : 2025-2026

SR NO.	Practical No.	Practical Title	Lab Hours	6CSE14 Planned Date
1	1	Study and Perform: Introduction to MEAN Stack and Environment Setup	2	24-11-25
2	2	Study and Perform: Getting Started with MongoDB	2	01-12-25
3	3	Study and Perform: Setting Up Express.js and Creating Routes	2	08-12-25
4	4	Study and Perform: Building RESTful APIs with Express.js and MongoDB	2	15-12-25
5	5	Study and Perform: Introduction to Angular and Project Setup	2	22-12-25
6	6	Study and Perform: Developing a Single-Page Application (SPA) with Angular	2	29-12-25
7	7	Study and Perform: Introduction to Node.js and Core Modules	2	05-01-26
8	8	Study and Perform: Building Server-Side Applications with Node.js	2	12-01-26
9	9	Study and Perform: Integrating MongoDB, Express, Angular, and Node.js	2	19-01-26
10	10	Study and Perform: Testing, Debugging, and Deploying MEAN Applications	2	02-02-26

Subject Name : Quant and Reasoning Subject code : 303105311

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE1	6CSE2	6CSE3
				Planned Date	Planned Date	Planned Date
1	1	Number system	6	24-11-25	25-11-25	24-11-25
2		Number system		27-11-25	26-11-25	25-11-25
3		HCF and LCM		28-11-25	29-11-25	28-11-25
4		HCF and LCM		01-12-25	02-12-25	01-12-25
5		Simplification		04-12-25	03-12-25	02-12-25
6		Approximations		05-12-25	06-12-25	05-12-25
7	2	Averages	8	08-12-25	09-12-25	08-12-25
8		Averages		11-12-25	10-12-25	9-12-25
9		Arithmetic progressions		12-12-25	13-12-25	12-12-25
10		Geometric Progressions		15-12-25	16-12-25	15-12-25
11		Directions		18-12-25	17-12-25	16-12-25
12		Seating Arrangements		19-12-25	20-12-25	19-12-25
13		Permutations		22-12-25	23-12-25	22-12-25
14		Combinations		26-12-25	27-12-25	23-12-25
15	3	Probability	8	29-12-25	30-12-25	26-12-25
16		Ratio and Proportion		01-01-26	31-12-25	29-12-25
17		Ratio and Proportion		08-01-26	07-01-26	30-12-25
18		Problems on Ages		09-01-26	13-01-26	02-01-26
19		Problems on Ages		12-01-26	21-01-26	05-01-26
20		Percentages		22-01-26	24-01-26	06-01-26
21		Time and Work		23-01-26	28-01-26	09-01-26
22		Time and Work		29-01-26	04-02-26	12-01-26
23	4	Pipe and Cisterns	8	30-01-26	11-02-26	13-01-26
24		Time, speed and distance		06-02-26	17-02-26	16-01-26
25		Time, speed and distance		16-02-26	18-02-26	19-01-26
26		Problems on train crossing		19-02-26	21-02-26	20-01-26
27		Problems on train crossing		20-02-26	24-02-26	23-01-26
28		Boats and Streams		23-02-26	25-02-26	27-01-26
29		Problem Solving		26-02-26	28-02-26	30-01-26
30		Profit and loss		27-02-26	03-03-26	02-02-26
31	5	Partnership	8	02-03-26	07-03-26	06-02-26
32		Simple Interest		06-03-26	10-03-26	10-02-26
33		Compound Interest		09-03-26	11-03-26	16-02-26
34		Compound Interest		12-03-26	14-03-26	20-02-26
35		Cubes and Dice		13-03-26	17-03-26	23-02-26
36		Syllogism		16-03-26	18-03-26	24-02-26

37		Clocks		19-03-26	21-03-26	27-02-26
38		Clocks		23-03-26	24-03-26	02-03-26
39		Problem Solving		27-03-26	25-03-26	06-03-26
40		Blood Relations		24-11-25	28-03-26	09-03-26
41		Blood Relations		27-11-25	25-11-25	12-03-26
42	**6**	Series and Analogy	7	28-11-25	26-11-25	13-03-26
43		Odd man out		01-12-25	29-11-25	16-03-26
44		Coding and Decoding		04-12-25	02-12-25	19-03-26
45		Problem Solving		05-12-25	03-12-25	23-03-26

Subject Name : Quant and Reasoning Subject code : 303105311

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE4	6CSE5	6CSE6
				Planned Date	Planned Date	Planned Date
1	1	Number system	6	24-11-25	25-11-25	24-11-25
2		Number system		27-11-25	26-11-25	25-11-25
3		HCF and LCM		28-11-25	29-11-25	28-11-25
4		HCF and LCM		01-12-25	02-12-25	01-12-25
5		Simplification		04-12-25	03-12-25	02-12-25
6		Approximations		05-12-25	06-12-25	05-12-25
7	2	Averages	8	08-12-25	09-12-25	08-12-25
8		Averages		11-12-25	10-12-25	9-12-25
9		Arithmetic progressions		12-12-25	13-12-25	12-12-25
10		Geometric Progressions		15-12-25	16-12-25	15-12-25
11		Directions		18-12-25	17-12-25	16-12-25
12		Seating Arrangements		19-12-25	20-12-25	19-12-25
13		Permutations		22-12-25	23-12-25	22-12-25
14		Combinations		26-12-25	27-12-25	23-12-25
15	3	Probability	8	29-12-25	30-12-25	26-12-25
16		Ratio and Proportion		01-01-26	31-12-25	29-12-25
17		Ratio and Proportion		08-01-26	07-01-26	30-12-25
18		Problems on Ages		09-01-26	13-01-26	02-01-26
19		Problems on Ages		12-01-26	21-01-26	05-01-26
20		Percentages		22-01-26	24-01-26	06-01-26
21		Time and Work		23-01-26	28-01-26	09-01-26
22		Time and Work		29-01-26	04-02-26	12-01-26
23	4	Pipe and Cisterns	8	30-01-26	11-02-26	13-01-26
24		Time, speed and distance		06-02-26	17-02-26	16-01-26
25		Time, speed and distance		16-02-26	18-02-26	19-01-26
26		Problems on train crossing		19-02-26	21-02-26	20-01-26
27		Problems on train crossing		20-02-26	24-02-26	23-01-26
28		Boats and Streams		23-02-26	25-02-26	27-01-26
29		Problem Solving		26-02-26	28-02-26	30-01-26
30		Profit and loss		27-02-26	03-03-26	02-02-26
31	5	Partnership	8	02-03-26	07-03-26	06-02-26
32		Simple Interest		06-03-26	10-03-26	10-02-26
33		Compound Interest		09-03-26	11-03-26	16-02-26
34		Compound Interest		12-03-26	14-03-26	20-02-26
35		Cubes and Dice		13-03-26	17-03-26	23-02-26
36		Syllogism		16-03-26	18-03-26	24-02-26

37		Clocks		19-03-26	21-03-26	27-02-26
38		Clocks		23-03-26	24-03-26	02-03-26
39		Problem Solving		27-03-26	25-03-26	06-03-26
40		Blood Relations		24-11-25	28-03-26	09-03-26
41		Blood Relations		27-11-25	25-11-25	12-03-26
42	**6**	Series and Analogy	7	28-11-25	26-11-25	13-03-26
43		Odd man out		01-12-25	29-11-25	16-03-26
44		Coding and Decoding		04-12-25	02-12-25	19-03-26
45		Problem Solving		05-12-25	03-12-25	23-03-26

Subject Name : Quant and Reasoning Subject code : 303105311

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE7	6CSE8	6CSE9
				Planned Date	Planned Date	Planned Date
1	1	Number system	6	24-11-25	25-11-25	24-11-25
2		Number system		27-11-25	26-11-25	25-11-25
3		HCF and LCM		28-11-25	29-11-25	28-11-25
4		HCF and LCM		01-12-25	02-12-25	01-12-25
5		Simplification		04-12-25	03-12-25	02-12-25
6		Approximations		05-12-25	06-12-25	05-12-25
7	2	Averages	8	08-12-25	09-12-25	08-12-25
8		Averages		11-12-25	10-12-25	9-12-25
9		Arithmetic progressions		12-12-25	13-12-25	12-12-25
10		Geometric Progressions		15-12-25	16-12-25	15-12-25
11		Directions		18-12-25	17-12-25	16-12-25
12		Seating Arrangements		19-12-25	20-12-25	19-12-25
13		Permutations		22-12-25	23-12-25	22-12-25
14		Combinations		26-12-25	27-12-25	23-12-25
15	3	Probability	8	29-12-25	30-12-25	26-12-25
16		Ratio and Proportion		01-01-26	31-12-25	29-12-25
17		Ratio and Proportion		08-01-26	07-01-26	30-12-25
18		Problems on Ages		09-01-26	13-01-26	02-01-26
19		Problems on Ages		12-01-26	21-01-26	05-01-26
20		Percentages		22-01-26	24-01-26	06-01-26
21		Time and Work		23-01-26	28-01-26	09-01-26
22		Time and Work		29-01-26	04-02-26	12-01-26
23	4	Pipe and Cisterns	8	30-01-26	11-02-26	13-01-26
24		Time, speed and distance		06-02-26	17-02-26	16-01-26
25		Time, speed and distance		16-02-26	18-02-26	19-01-26
26		Problems on train crossing		19-02-26	21-02-26	20-01-26
27		Problems on train crossing		20-02-26	24-02-26	23-01-26
28		Boats and Streams		23-02-26	25-02-26	27-01-26
29		Problem Solving		26-02-26	28-02-26	30-01-26
30		Profit and loss		27-02-26	03-03-26	02-02-26
31	5	Partnership	8	02-03-26	07-03-26	06-02-26
32		Simple Interest		06-03-26	10-03-26	10-02-26
33		Compound Interest		09-03-26	11-03-26	16-02-26
34		Compound Interest		12-03-26	14-03-26	20-02-26
35		Cubes and Dice		13-03-26	17-03-26	23-02-26
36		Syllogism		16-03-26	18-03-26	24-02-26

37		Clocks		19-03-26	21-03-26	27-02-26
38		Clocks		23-03-26	24-03-26	02-03-26
39		Problem Solving		27-03-26	25-03-26	06-03-26
40		Blood Relations		24-11-25	28-03-26	09-03-26
41		Blood Relations		27-11-25	25-11-25	12-03-26
42	**6**	Series and Analogy	7	28-11-25	26-11-25	13-03-26
43		Odd man out		01-12-25	29-11-25	16-03-26
44		Coding and Decoding		04-12-25	02-12-25	19-03-26
45		Problem Solving		05-12-25	03-12-25	23-03-26

Subject Name : Quant and Reasoning Subject code : 303105311

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE10	6CSE11	6CSE12
				Planned Date	Planned Date	Planned Date
1	1	Number system	6	24-11-25	25-11-25	24-11-25
2		Number system		27-11-25	26-11-25	25-11-25
3		HCF and LCM		28-11-25	29-11-25	28-11-25
4		HCF and LCM		01-12-25	02-12-25	01-12-25
5		Simplification		04-12-25	03-12-25	02-12-25
6		Approximations		05-12-25	06-12-25	05-12-25
7	2	Averages	8	08-12-25	09-12-25	08-12-25
8		Averages		11-12-25	10-12-25	9-12-25
9		Arithmetic progressions		12-12-25	13-12-25	12-12-25
10		Geometric Progressions		15-12-25	16-12-25	15-12-25
11		Directions		18-12-25	17-12-25	16-12-25
12		Seating Arrangements		19-12-25	20-12-25	19-12-25
13		Permutations		22-12-25	23-12-25	22-12-25
14		Combinations		26-12-25	27-12-25	23-12-25
15	3	Probability	8	29-12-25	30-12-25	26-12-25
16		Ratio and Proportion		01-01-26	31-12-25	29-12-25
17		Ratio and Proportion		08-01-26	07-01-26	30-12-25
18		Problems on Ages		09-01-26	13-01-26	02-01-26
19		Problems on Ages		12-01-26	21-01-26	05-01-26
20		Percentages		22-01-26	24-01-26	06-01-26
21		Time and Work		23-01-26	28-01-26	09-01-26
22		Time and Work		29-01-26	04-02-26	12-01-26
23	4	Pipe and Cisterns	8	30-01-26	11-02-26	13-01-26
24		Time, speed and distance		06-02-26	17-02-26	16-01-26
25		Time, speed and distance		16-02-26	18-02-26	19-01-26
26		Problems on train crossing		19-02-26	21-02-26	20-01-26
27		Problems on train crossing		20-02-26	24-02-26	23-01-26
28		Boats and Streams		23-02-26	25-02-26	27-01-26
29		Problem Solving		26-02-26	28-02-26	30-01-26
30		Profit and loss		27-02-26	03-03-26	02-02-26
31	5	Partnership	8	02-03-26	07-03-26	06-02-26
32		Simple Interest		06-03-26	10-03-26	10-02-26
33		Compound Interest		09-03-26	11-03-26	16-02-26
34		Compound Interest		12-03-26	14-03-26	20-02-26
35		Cubes and Dice		13-03-26	17-03-26	23-02-26
36		Syllogism		16-03-26	18-03-26	24-02-26

37		Clocks		19-03-26	21-03-26	27-02-26
38		Clocks		23-03-26	24-03-26	02-03-26
39		Problem Solving		27-03-26	25-03-26	06-03-26
40		Blood Relations		24-11-25	28-03-26	09-03-26
41		Blood Relations		27-11-25	25-11-25	12-03-26
42	**6**	Series and Analogy	7	28-11-25	26-11-25	13-03-26
43		Odd man out		01-12-25	29-11-25	16-03-26
44		Coding and Decoding		04-12-25	02-12-25	19-03-26
45		Problem Solving		05-12-25	03-12-25	23-03-26

Subject Name : Quant and Reasoning Subject code : 303105311

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE13	6CSE14	6CSE14
				Planned Date	Planned Date	Planned Date
1	1	Number system	6	24-11-25	25-11-25	24-11-25
2		Number system		27-11-25	26-11-25	25-11-25
3		HCF and LCM		28-11-25	29-11-25	28-11-25
4		HCF and LCM		01-12-25	02-12-25	01-12-25
5		Simplification		04-12-25	03-12-25	02-12-25
6		Approximations		05-12-25	06-12-25	05-12-25
7	2	Averages	8	08-12-25	09-12-25	08-12-25
8		Averages		11-12-25	10-12-25	9-12-25
9		Arithmetic progressions		12-12-25	13-12-25	12-12-25
10		Geometric Progressions		15-12-25	16-12-25	15-12-25
11		Directions		18-12-25	17-12-25	16-12-25
12		Seating Arrangements		19-12-25	20-12-25	19-12-25
13		Permutations		22-12-25	23-12-25	22-12-25
14		Combinations		26-12-25	27-12-25	23-12-25
15	3	Probability	8	29-12-25	30-12-25	26-12-25
16		Ratio and Proportion		01-01-26	31-12-25	29-12-25
17		Ratio and Proportion		08-01-26	07-01-26	30-12-25
18		Problems on Ages		09-01-26	13-01-26	02-01-26
19		Problems on Ages		12-01-26	21-01-26	05-01-26
20		Percentages		22-01-26	24-01-26	06-01-26
21		Time and Work		23-01-26	28-01-26	09-01-26
22		Time and Work		29-01-26	04-02-26	12-01-26
23	4	Pipe and Cisterns	8	30-01-26	11-02-26	13-01-26
24		Time, speed and distance		06-02-26	17-02-26	16-01-26
25		Time, speed and distance		16-02-26	18-02-26	19-01-26
26		Problems on train crossing		19-02-26	21-02-26	20-01-26
27		Problems on train crossing		20-02-26	24-02-26	23-01-26
28		Boats and Streams		23-02-26	25-02-26	27-01-26
29		Problem Solving		26-02-26	28-02-26	30-01-26
30		Profit and loss		27-02-26	03-03-26	02-02-26
31	5	Partnership	8	02-03-26	07-03-26	06-02-26
32		Simple Interest		06-03-26	10-03-26	10-02-26
33		Compound Interest		09-03-26	11-03-26	16-02-26
34		Compound Interest		12-03-26	14-03-26	20-02-26
35		Cubes and Dice		13-03-26	17-03-26	23-02-26
36		Syllogism		16-03-26	18-03-26	24-02-26

37		Clocks		19-03-26	21-03-26	27-02-26
38		Clocks		23-03-26	24-03-26	02-03-26
39		Problem Solving		27-03-26	25-03-26	06-03-26
40		Blood Relations		24-11-25	28-03-26	09-03-26
41		Blood Relations		27-11-25	25-11-25	12-03-26
42	**6**	Series and Analogy	7	28-11-25	26-11-25	13-03-26
43		Odd man out		01-12-25	29-11-25	16-03-26
44		Coding and Decoding		04-12-25	02-12-25	19-03-26
45		Problem Solving		05-12-25	03-12-25	23-03-26

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE

Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE1	6CSE2
				Planned Date	Planned Date
1		IELTS Mock Test		29-11-2025	29-11-2025
2		Listening		06-12-2025	06-12-2025
3		Speaking		13-12-2025	13-12-2025
4		Reading		20-12-2025	20-12-2025
5		Writing	5	27-12-2025	27-12-2025
6	1	All Continuous Evaluation		03-01-2026	03-01-2026
7		Resume Building		10-01-2026	10-01-2026
8		Resume Building		17-01-2026	17-01-2026
9	2	Resume Drafting	2	24-01-2026	24-01-2026
10		Advanced Group Discussion: Mock Round		31-01-2026	31-01-2026
11		Advanced Group Discussion (4 sessions)		07-02-2026	07-02-2026
12	3	Continuous Evaluation	4	21-02-2026	21-02-2026
13		Personal Interview: Mock Round		28-02-2026	28-02-2026
14		Personal Interview (3 sessions)		07-03-26	07-03-26
15	4	Personal Interview Continuous Evaluation	4	14-03-2026	14-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE3	6CSE4
				Planned Date	Planned Date
1		IELTS Mock Test		26-11-2025	29-11-2025
2		Listening		03-12-2025	06-12-2025
3		Speaking		10-12-2025	13-12-2025
4		Reading		17-12-2025	20-12-2025
5		Writing	5	24-12-2025	27-12-2025
6	1	All Continuous Evaluation		31-12-2025	03-01-2026
7		Resume Building		07-01-2026	10-01-2026
8		Resume Building		21-01-2026	17-01-2026
9	2	Resume Drafting	2	28-01-2026	24-01-2026
10		Advanced Group Discussion: Mock Round		11/2/2026	31-01-2026
11		Advanced Group Discussion (4 sessions)		18-02-2026	07-02-2026
12	3	Continuous Evaluation	4	25-02-2026	21-02-2026
13		Personal Interview: Mock Round		04-03-2026	28-02-2026
14		Personal Interview (3 sessions)		11-03-2026	07-03-26
15	4	Personal Interview Continuous Evaluation	4	18-03-2026	14-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE

Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE5	6CSE6
				Planned Date	Planned Date
1		IELTS Mock Test		29-11-2025	26-11-2025
2		Listening		06-12-2025	03-12-2025
3		Speaking		13-12-2025	10-12-2025
4		Reading		20-12-2025	17-12-2025
5		Writing	5	27-12-2025	24-12-2025
6	1	All Continuous Evaluation		03-01-2026	31-12-2025
7		Resume Building		10-01-2026	07-01-2026
8		Resume Building		17-01-2026	21-01-2026
9	2	Resume Drafting	2	24-01-2026	28-01-2026
10		Advanced Group Discussion: Mock Round		31-01-2026	11/2/2026
11		Advanced Group Discussion (4 sessions)		07-02-2026	18-02-2026
12	3	Continuous Evaluation	4	21-02-2026	25-02-2026
13		Personal Interview: Mock Round		28-02-2026	04-03-2026
14		Personal Interview (3 sessions)		07-03-26	11-03-2026
15	4	Personal Interview Continuous Evaluation	4	14-03-2026	18-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE7	6CSE8
				Planned Date	Planned Date
1		IELTS Mock Test		29-11-2025	29-11-2025
2		Listening		06-12-2025	06-12-2025
3		Speaking		13-12-2025	13-12-2025
4		Reading		20-12-2025	20-12-2025
5		Writing	5	27-12-2025	27-12-2025
6	1	All Continuous Evaluation		03-01-2026	03-01-2026
7		Resume Building		10-01-2026	10-01-2026
8		Resume Building		17-01-2026	17-01-2026
9	2	Resume Drafting	2	24-01-2026	24-01-2026
10		Advanced Group Discussion: Mock Round		31-01-2026	31-01-2026
11		Advanced Group Discussion (4 sessions)		07-02-2026	07-02-2026
12	3	Continuous Evaluation	4	21-02-2026	21-02-2026
13		Personal Interview: Mock Round		28-02-2026	28-02-2026
14		Personal Interview (3 sessions)		07-03-26	07-03-26
15	4	Personal Interview Continuous Evaluation	4	14-03-2026	14-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE9	6CSE10
				Planned Date	Planned Date
1		IELTS Mock Test		26-11-2025	29-11-2025
2		Listening		03-12-2025	06-12-2025
3		Speaking		10-12-2025	13-12-2025
4		Reading		17-12-2025	20-12-2025
5		Writing	5	24-12-2025	27-12-2025
6	1	All Continuous Evaluation		31-12-2025	03-01-2026
7		Resume Building		07-01-2026	10-01-2026
8		Resume Building		21-01-2026	17-01-2026
9	2	Resume Drafting	2	28-01-2026	24-01-2026
10		Advanced Group Discussion: Mock Round		11/2/2026	31-01-2026
11		Advanced Group Discussion (4 sessions)		18-02-2026	07-02-2026
12	3	Continuous Evaluation	4	25-02-2026	21-02-2026
13		Personal Interview: Mock Round		04-03-2026	28-02-2026
14		Personal Interview (3 sessions)		11-03-2026	07-03-26
15	4	Personal Interview Continuous Evaluation	4	18-03-2026	14-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE11	6CSE12
				Planned Date	Planned Date
1		IELTS Mock Test		29-11-2025	26-11-2025
2		Listening		06-12-2025	03-12-2025
3		Speaking		13-12-2025	10-12-2025
4		Reading		20-12-2025	17-12-2025
5		Writing	5	27-12-2025	24-12-2025
6	1	All Continuous Evaluation		03-01-2026	31-12-2025
7		Resume Building		10-01-2026	07-01-2026
8		Resume Building		17-01-2026	21-01-2026
9	2	Resume Drafting	2	24-01-2026	28-01-2026
10		Advanced Group Discussion: Mock Round		31-01-2026	11/2/2026
11		Advanced Group Discussion (4 sessions)		07-02-2026	18-02-2026
12	3	Continuous Evaluation	4	21-02-2026	25-02-2026
13		Personal Interview: Mock Round		28-02-2026	04-03-2026
14		Personal Interview (3 sessions)		07-03-26	11-03-2026
15	4	Personal Interview Continuous Evaluation	4	14-03-2026	18-03-2026

Subject Name : Employability Skill (EVEN 2025-26) Subject code : 303193353

Semester : 6th Branch : CSE
Lecture/Week: Academic Year : 2025-2026

SR NO.	UNIT	TOPIC	Hrs	6CSE13	6CSE14
				Planned Date	Planned Date
1		IELTS Mock Test		29-11-2025	29-11-2025
2		Listening		06-12-2025	06-12-2025
3		Speaking		13-12-2025	13-12-2025
4		Reading		20-12-2025	20-12-2025
5		Writing	5	27-12-2025	27-12-2025
6	1	All Continuous Evaluation		03-01-2026	03-01-2026
7		Resume Building		10-01-2026	10-01-2026
8		Resume Building		17-01-2026	17-01-2026
9	2	Resume Drafting	2	24-01-2026	24-01-2026
10		Advanced Group Discussion: Mock Round		31-01-2026	31-01-2026
11		Advanced Group Discussion (4 sessions)		07-02-2026	07-02-2026
12	3	Continuous Evaluation	4	21-02-2026	21-02-2026
13		Personal Interview: Mock Round		28-02-2026	28-02-2026
14		Personal Interview (3 sessions)		07-03-26	07-03-26
15	4	Personal Interview Continuous Evaluation	4	14-03-2026	14-03-2026

SUMMARY OF TEXTBOOK

SEMESTER	SUBJECT CODE	SUBJECT	Title of TEXT Book / Name of Author	Name of Publisher
6	303105353	Machine Learning	Real-World Machine Learning By Henrik Brink, Joseph Richards, Mark Fetherolf	DreamTech
6	303105349	Compiler Design	Compilers: Principles, Techniques and Tools by Aho, Lam, Sethi, Ullman	Pearson
6	303105379	Mobile Application Development	Android Wireless Application Development By Lauren Darcey and Shane Conder	Pearson Education
6	303105385	MEA(R)N Stack Web Development	MEAN Web Development" by Amos Q. Haviv	Packt Publishing

NPTEL / SWAYAM / MOOCS COURSES LIST AND DETAILS

NPTEL (National Programme on Technology Enhanced Learning) offers a wide range of online courses for Computer Science Engineering. These courses are designed to cater to students, professionals, and anyone interested in the field of Mechanical Engineering.

Course are offered by NPTEL for Computer Science Engineering like:

ADDITIONAL NPTEL/MOOCs COURSES RECOMMENDED TO JOIN

Sr.no	Name of Courses	Portal	Course Link
1	Software Engineering	NPTEL	https://onlinecourses.nptel.ac.in/noc25_cs/preview
2	Artificial Intelligence: Search Methods for Problem Solving	NPTEL	https://onlinecourses.nptel.ac.in/noc25_cs preview

DETAILS OF VALUE-ADDED COURSES AND PROFESSIONAL COURSES

Sr. No.	Name of the Value Added Course To Be Offered	Semester	Planned Month	Duration (Hr)
1	Introduction to JAVA Script	2	December,2025	30
2	Web Development using React JS	3	January,2026	30
3	Spring Boot and Micro services &Professional Development and Deployment of Web Apps (Spring, REST, Kubernetes)	4	Feruary,2026	30
4	Cloud Computing & AI with AWS	5	March,2026	30
5	Scientific Report Writing using Latex	6	March,2026	30
6	Software Project Management & Agile Methodology	7	January,2026	30

STUDENTCHAPTER/ COUNCIL

Sr No.	Student Chapter	SPOC Person	Contact No.	Month
1.	AWS Academy	Dr. Nithya A	9659428605	February,2026
2.	Coding Club	Sunny Ramchandani	903397899	February,2026

The **Coding Club** is dedicated to cultivating a spirit of logical reasoning, creative problem-solving, and algorithmic mastery among students. It serves as an interactive platform where learners of all levels can sharpen their programming skills, engage in coding competitions, and prepare for prestigious national and international contests such as **Code Chef**, **Hacker Rank**, and **Leet Code**.

Through a series of **regular coding challenges, hands-on workshops, mentorship programs, and hackathons**, the club empowers students to build strong programming foundations and apply their knowledge to practical, real-world scenarios. Beyond technical growth, it promotes **collaboration, innovation, and lifelong learning**, preparing students to become **industry-ready professionals and confident competitive coders**.

Details about Timing & Venue of Coding Club:

The Coding club activities will be conducted from 5:00 PM to 7:00 PM, Monday to Saturday, at the C.V. Raman Building.

CO-CURRICULAR AND EXTRA-CURRICULAREVENTS DURING THE SEMESTER

Sr No.	Events	Month
1.	Quiz	February 2026
2.	NCC	April,2026
3.	Task Coding	February 2026/March 2026

DETAILS OF VISITS PLANNED DURING SEMESTER

Sr No.	Company name	Month
1.	Bisag, Gandhinagar	January ,2026
2.	TOPS Technology, Ahmedabad	February,2026

DETAILS OF EXPERT TALK DURING THE SEMESTER

Sr No.	Name	Month
1.	2 Days Hands-on Workshop on Emerging trends and challenges in operating systems	March,2026
2.	2 Days Hands-on Workshop on computer networks	April,2026

FLAGSHIP EVENTS OF CONCERNED INSTITUTE, FACULTY

Sr No.	Events	Month
1.	Tech Expo	February ,2026
2.	Parul University International Conference on Engineering and Technology – PiCET 2026	April/May ,2026
3.	PU Code Hackathon	March, 2026
3.	Projection	January, 2026
4.	DHOOM	February/March, 2026

PROMINENT ACADEMIC COMPETITION(OUTSIDE PU)

Sr No.	Events	Month
1.	SIH(Smart India Hackathon)	March,2026
2.	Techfest	December,2025
3.	Prakarsh	February, 2026
4.	Maker Fest	February ,2026

RANKER LIST OF LAST SEMESTER RESULT WITH SPI

Sr No.	Enrollment No	Name of students	SGPA	Rank
1	2203031050417	Padhiyar Harshkumar Bhupendra bhai	9.22	1
2	2203031050008	Aaryan Kunal	9.09	2
3	2203031050101	Bhatiya Smit Mayurbhai	9.09	2
4	2203031050737	Patel Jeet Dharmeshbhai	9.04	3

Coordinators of Various Committee (Anti Ragging, WDC, ICC, Office of International Affairs, Centre of International Relations and Research, PIERC, Scholarship, PUMIS, Mentoring etc.)

Committee	Coordinator	Contact no.	Email Address
Anti Ragging	Rakesh Mishra	9473122585	rakeshkumar.mishra12731@paruluniversity.ac.in
WDC	Swati Prajapati	9909012774	swati.prajapati@paruluniversity.ac.in
Centre of International Relations and Research	Tulsi Sheth	9724326299	tulsi.sheth12725@paruluniversity.ac
PIERC	Nitesh Patel	9924596712	nitesh.patel@paruluniversity.ac.in
Scholarship	Kamlesh Parmar	9376215191	kamlesh.parmar@paruluniversity.ac
PUMIS	Dr. Yassir Farooqi	9821763324	yassir.farooqui270062@paruluniversity.ac.in
Mentoring	Dr. Nithya A	9659428605	nithiya.a40174@ paruluniversity.ac.in
AWS	Dr. Nithya A	9659428605	nithiya.a40174@ paruluniversity.ac.in
NPTEL	Dr. Khyati Zalawadia	9879035838	khyati.zalawadia29490@paruluniversity.ac.in

INTERACTIONS OF VARIOUS MEDIA PLATFORMS

- **Parul University Websites:**

  Official Website: https://paruluniversity.ac.in/
  Student Portal: https://ums.paruluniversity.ac.in/Login.aspx

- **Parul University Social Media Links:**

  https://www.instagram.com/paruluniversity/?hl=en
  https://www.facebook.com/ParulUniversity/
  https://www.linkedin.com/school/paruluniversity/people/?originalSubdomain=in
  https://www.youtube.com/@paruluniversity
  https://twitter.com/ParulUniversity

- **Faculty Social Media Handles (Faculty of Engineering and Technology)**

  Faculty Social Media Handles (Faculty of Engineering and Technology)
  https://www.instagram.com/engineering.at.pu https://www.facebook.com/pufoengg
  https://whatsapp.com/channel/0029VaAvUeYC6ZvoQ8cyox0x

- **Institute-WhatsApp Channel Links:**

  https://whatsapp.com/channel/0029VaAvUeYC6ZvoQ8cy

ANNEXURE

PARUL UNIVERSITY

R/Notification-1386/2024-25

Office of the Registrar
December 9, 2024

NOTIFICATION

Sub: Fees to be charged for different documents in the University
Ref: (i) R/Notification-155/2017-18 dated September 5, 2017
(ii) Proceedings of the Eighteenth Meeting of the Governing Body held on December 6, 2024
(ii) Orders of the President

In partial modification of the notification cited at ref.(i), one time fees at the rates shown below shall be paid by the students to obtain different types of credentials from the University. The revision shall come into effect from January 1, 2025.

Certificate/Document	*Fees*	*Mode of Payment*
Transcript	(i)Rs.2,000/- (First Set-4 copy) (ii)Additional Rs.2,000/- (multiple thereof)	Online Payment through Parul University Website
Transcript for MBBS	2000/- per copy	Online Payment through Parul University Website
Migration Certificate	Rs.1000/-	Online Payment through Parul University Website
N.O.C. Admission Cancellation	Rs.1000/-	Online Payment through Parul University Website
Statement of Mark	Rs.2000/-	Online Payment through Parul University Website
Document Verification of • Grade Card/Marks Card • Degree Certificate • Provisional Degree Certificate • Etc…	Rs.1000/- per document	Online Payment through Parul University Website Necessary documents will have to be produced by the student.
Correction of Student's Name/ ABC ID in Grade/Marks Card (in case the wrong entry of name is made by the student in MIS)	Rs.1000/-	Online Payment through Parul University Website. Necessary documents will have to be produced by the student .
Rank Certificate (University Exams)	Rs.500/-	Online Payment through Parul University Website
Language Certificate	Rs.500/-	Online Payment through Parul University Website
Backlog Certificate	Rs.500/-	Online Payment through Parul University Website

Attempt Certificate	Rs.500/-	Online Payment through Parul University Website
CGPA to Percentage Certificate	Rs.500/-	Online Payment through Parul University Website
Duplicate Grade Card/Mark Sheet	2000/-	Online Payment through Parul University Website Submit an original copy of challan for having registered a complaint on loss of original document/s with the police.
Duplicate Degree Certificate	5000/-	Online Payment through Parul University Website Submit an original copy of challan for having registered a complaint on loss of original document/s with the police.
Other Certificate (Please specify details of certificate required)	Rs.500/-	Online Payment through Parul University Website Necessary documents will have to be produced by the student.
Courier Charges	Rs.300/- for domestic, Rs.4000/- for International	Online Payment through Parul University Website

By Order

Registrar

To,

1) Deans of Faculties
2) Principals/ Directors of Colleges/ Institutes
3) Dean, Doctoral Studies and Research
4) Campus Director
5) Managing Director (Global), Industrial Collaborations; Academic Strategies
6) Academic Directors
7) Dean, Students' Welfare
8) Controller of Examinations
9) Chief Technology Officer
10) Chief Librarian

EXAMINATION RULES & REGULATIONS FOR STUDENTS:

If any examinee is violating university rules, he/she is liable to be punished under the provisions of the University rules.

* A disciplinary action will be taken against the candidate who disobeys the instructions of the supervisor or misbehaves or violates the code of conduct of examination of Parul University.
* All unused answer books and other University examination materials must be handed over to Supervisor and must NOT be taken from the room.
* Hollow sticker should be pasted after warning bell on appropriate space on the front page of the answer book, covering the information filled up by the candidate and the bar-code label.
* There will be warning bell 10 minutes before the completion of the examination.
* If you need to do any rough work, use the back of the page(s) of your answer book(s) and either cross out the rough work or mark it clearly as such before submitting your script; you may not use paper of your own for rough work.
* No candidate will be allowed to leave the examination hall before 45 minutes after commencement and during last 15 minutes of the examination session.
* Do not leave your seat in any circumstance without the prior permission of the supervisor.
* Do not write anything in space provided for marks.
* Write relevant answer of the question in a clear and legible hand writing on both sides of answer book in respective Section-A and Section-B.
* Begin a new answer on separate page.
* Please read the instructions at the top of your paper, and make sure you understand and follow them.
* Under no circumstances, the candidate will be allowed to enter the examination hall after commencement of examination.
* Please check that you have the correct examination paper and copy of it, is complete.
* Do not write your name or number or sign in the answer book which reveals your identity.

A candidate has to check the bar-code to be pasted by supervisor on the front page of his answer book

* Enter your enrolment number, subject code, date of exam etc. in the given space.

* Student should ensure that any objectionable material leading to UFM case is not lying around his/her seat prior to start of examination and it will be the sole responsibility of the student to inform to the supervisor.

PARUL UNIVERSITY

WAGHODIA, VADODARA

No: PU/EXAM/Functions/2015/5 Date: 18/08/2015

Instructions to Examinees/Candidates

1. All candidates must occupy seat in exam hall before half an hour of commencement of examination time.
2. Student should ensure that any objectionable material leading to UFM case is not lying around his/her seat prior to start of examination and it will be the sole responsibility of the student to inform to the supervisor.
3. Enter your enrollment number, subject code, date of exam etc. at appropriate location.
4. A candidate has to check barcode to be pasted by supervisor on front page of his answer book.
5. Do not write your name or number or any sign in the answer book which reveals your identity.
6. Please check that you have the correct examination paper and that your copy of it is complete.
7. Under no circumstances, the candidate will be allowed to enter the examination hall after commencement of examination.
8. Please read the instructions at the head of your paper, and make sure you understand and follow them.
9. Begin a new answer on separate page.
10. Write relevant answer of the question in a clear and legible hand writing on both sides of answer book in respective Section-A and Section-B.
11. Do not write anything in space provided for marks.
12. Do not leave your seat in any circumstance without the prior permission of the supervisor.
13. No candidate will be allowed to leave the examination hall after the commencement of examination till 45 minutes and during last 15 minutes of the examination session.
14. Students may not leave the examination room (except when they have finished their examination). If the medical condition appears serious and the student is not able to resume the exam, Jr. Supervisor should call Security and request medical assistance. In this case the student may be able to resume the examination.
15. If you need to do any rough work, use the back page(s) of your answer book(s) and either cross through the rough work or identify it clearly as such before handing in your script; you may not use paper of your own for rough work).
16. It is the students' responsibility to make sure their calculators are working and have fresh batteries. Students are neither permitted to share calculators nor to pass them between each other during an examination. Use of a non-permissible type of calculator or other

electronic device will be regarded as cheating.

17. If any objectionable material related to exam or mobile phone or programmable calculator is found with candidate or found exchanging answer book/ question paper with other candidate, he/she will be immediately expelled and the final punishment will be imposed once the matter is taken up by the authorities.
18. There will be warning bell 10 minutes before the completion of the examination.
19. Hollow sticker should be pasted after warning bell at appropriate place of the front page of the answer book, covering the information filled up by the candidate and the barcode label.
20. All unused answer books and other University examination materials must be handed over to Supervisor and must NOT be taken from the room.
21. A disciplinary action will be taken against the candidate who disobeys the instructions of the supervisor or misbehaves or violates the code of conduct of examination of Parul University.
22. If any examinee is violating university rules, he/she is liable to be punished under the provision of the University rules.

- Controller of Examination

Parul University
Continuing Education Programs

About Continuing Education Programs:

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 offine 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
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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 is as below: -

S.No	Type	Programme Name	Programme Name.1	Duration	Eligibility	Lump Sum Fee	Annual 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 Learning (OL)	Bachelor of Business Administration	B.B.A.	3 Years	10+2 Examination or any other equivalent Examination	₹ 70000.0	₹ 90000 ₹ 30,000 per year	₹111000 ₹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	₹ 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 Examination	₹ 85000.0	₹ 1,20,000.00 ₹ 30,000 per year	₹ 1,48,000.00 ₹18,500 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 & Distance Learning (ODL)	Master of Computer Application	MCA	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
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.

Parul University
Faculty of Engineering & Technology
Work Integrated Programs 2025-26

Available M.Tech Programmes: -

- M.Tech in Computer Engineering
- M.Tech in Structural Engineering
- M.Tech in Transportation Engineering
- M.Tech in Construction Project Management
- M.Tech in Chemical Engineering
- M.Tech in CAD/CAM Engineering

Eligibility for Admission: -

- Professional working in Registered Industry/ Organization (Central/State)/ Private/ Public Limited Company/ MSMEs located within 50 km radial distance from the institute.
- Minimum of ONE-year Full Time/ Regular Working Experience
- A candidate with 4 yrs. Bachelor's Degree or equivalent (level 6.00)
- Obtained at least 50% marks (45% for reserved category) in the qualifying examination at the UG Level.

Available B.Tech Programmes: -

- B.Tech in Electrical Engineering
- B.Tech in Mechanical Engineering
- B.Tech in Chemical Engineering
- B.Tech in Computer Science Engineering

Eligibility for Admission: -

- Professional working in Registered Industry/ Organization (Central/State)/ Private/ Public Limited Company/ MSMEs located within 50 km radial distance from the institute.
- Minimum of ONE-year Full Time/ Regular Working Experience
- A candidate must meet the Lateral eligibility criteria as per AICTE norms.
- Obtained a minimum 3-year Diploma in Engineering/Technology with at least 45% marks (40% for reserved category) in the qualifying examination.

General Guidelines: -

- Classes will be conducted every Saturday and Sunday from 7:30 AM to 4:30 PM for all courses in physical mode only.
- Compulsory needed to maintain minimum attendance criteria.
- An appointment Letter, Salary Slip & Letter of Association along with a No Objection Certificate (NOC) from employers, must and have to be submitted during the time of admission.
- It is mandatory for every candidate to appear for all examinations (Mid-semester and End-Semester) and have to score minimum marks as per university norms.
- Examination will be conducted in physical mode, following the same process as regular students.

Why Choose Parul University's WIP?

- Improvised and efficient means of upgrading their existing technical skills
- Opportunity to boost career growth in their existing organization
- Application of theory and trending technologies learnt from classroom to workplace for better consistent outcomes
- Better understanding of practical knowledge and applications
- Can pursue further studies without leaving current job & professional aspirations
- A seamless balance between work and academics through flexible learning
- An industry-relevant curriculum specially designed for working professional

Contact Person: - Dr. Nirav M Patel
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Parul University Alumni Association

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.

National Education Policy (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

NCrF/ NHEQF Level	Qualification Title	Minimum Credit Requirement
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)**.

Dr. Rajkumari Soni
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Director, Center for Multidisciplinary and Interdisciplinary Education
Parul University, Vadodara, Gujarat