



# 2026-27 | VOLUME II

## STUDENTS' INFORMATION BOOKLET

(General Information about the Institute,  
Academic Rules & Regulations, Teaching  
and Examination Scheme)



# Bachelor of Technology

# BTech



## प्रार्थना

या कुन्देन्दु तुषारहार धवला या शुभ्र वस्त्रावृता ।  
या वीणा वर दण्ड मण्डितकरा या श्वेत पद्मासना ॥  
या ब्रह्माच्युत शंकर प्रभृतिभिः देवैः सदा वन्दिता ।  
सा मां पातु सरस्वती भगवती निःशेष जाड्यापहा ॥

**श्लोक अर्थ -** जो विद्या की देवी भगवती सरस्वती कुन्द के फूल, चन्द्रमा, हिमराशि और मती के हार की तरह धवल वर्ण की हैं और जो श्वेत वस्त्र धारण करती हैं, जिनके हाथ में वीणा-दण्ड शोभायमान है, जिन्होंने श्वेत कमलों पर आसन ग्रहण किया है तथा ब्रह्मा, विष्णु एवं शंकर आदि देवताओं द्वारा जो सदा पूजित हैं, वही सम्पूर्ण जड़ता और अज्ञान को दूर कर देने वाली माँ सरस्वती हमारी रक्षा करें ।

**Meaning -** Salutations to Devi Saraswati, Who is pure white like Jasmine, with the coolness of Moon, brightness of Snow and shine like the garland of Pearls; and Who is covered with pure white garments, Whose hands are adorned with Veena (a stringed musical instrument) and the boon-giving staff; and Who is seated on pure white Lotus, Who is always adored by Lord Brahma, Lord Acyuta (Lord Vishnu), Lord Shankara and other Devas, O Goddess Saraswati, please protect me and remove my ignorance completely.



## PREAMBLE

The Handbook for students printed in two volumes (Volume–I and Volume –II) gives information about the Institute of Technology, Nirma University and detailed information about the BTech programme.

Handbook Volume – I contains general information about the Nirma University and an insight about the general administration of the Institute of Technology. It gives important information about general rules to be followed by the students on the campus, discipline and conduct rules of the University. It also gives information about the academic infrastructure, teaching learning process, student centric activities, general facilities and support available to the students on the campus.

Handbook Volume –II contains academic information of the Institute which includes the Academic Rules and Regulations regarding academic requirements and academic conduct of the students at the University including different policies and forms. Besides, it includes important information on registration, grading system, academic standards, attendance norms, discipline and the likes.

It is the responsibility of all the students to get themselves familiarized with the rules and regulations of the Institute and University.

The University / Institute reserves the right to amend the rules and regulations mentioned in the Handbook without any prior notice. The decision of the University shall be final on all the matters. For any further clarification, the Student Section may be contacted.

These Handbooks (Information Booklets) are for the purpose of providing information to the students about the University and its programmes and is not a Regulation book of the University. Hence, no claim can be made based on the information given in this book.

### **Dr. Rajesh Patel**

(I/c) Director General, Nirma University  
 Dean, Faculty of Technology & Engineering  
 Institute of Technology, Nirma University  
 Director, School of Engineering

## DIRECTOR'S (SOE) MESSAGE

With great pleasure, I welcome you to one of the most reputed institutes of the country; an institute with a firm vision of the overall development of students, a place that will enrich you with technical and life skills and will provide the opportunity to compete with world-class students. The University is accredited by NAAC with 'A+' grade in 2022 which endorses the quality standards followed in every aspect of education. It is also awarded the Centre of Excellence (CoE) status by the Government of Gujarat. All the BTech Programmes under the Institute are accredited by the National Board of Accreditation (NBA) under Tier-I category. The Institute of Technology received high rankings from ranking agencies. Since its inception in 1995, Institute of Technology, Nirma University has upheld its vision of shaping a better future for mankind by developing effective and socially responsible individuals and organizations. In a short span of time, the Institute is recognized as one of the leading Centre of higher education in the country. It is also known for the outstanding caliber of its students, well-qualified faculty dedicated to teaching and research and excellent infrastructure. Institute aims to provide a learning environment that promotes excellence in academic and professional standards. The Institute is equally responsible for sensitizing its students towards societal activities, environmental sustainability and equal opportunity to nurture.



We have implemented the National Education Policy 2020 from the Academic Year 2022-23 and onwards. NEP 2020 envisages that the existing curriculum and pedagogy shall be restructured in such a way to develop respect for the Fundamental Duties and Constitutional values, and conscious awareness of one's roles and responsibilities among the students and to inculcate the appreciation among the students regarding the knowledge, skills, values, and dispositions that support responsible commitment to human rights, sustainable development and living, and global well-being, thereby reflecting a truly global citizen.

The flexible curriculum will help students not only acquiring occupational skills, but also developing competences to deal with many situations and work in teams and a package of skills that enables one to deal with the various challenges of working life. The revised curriculum shall have more tutorials and laboratory sessions which will facilitate the greater interaction between the teachers and students. It also focuses on internships and field projects. Hence, the students have the opportunity to apply the skills, theories and concepts learned in the classroom to real problems. Keeping in mind the graduate skill set desired by the industry, the Institute focuses on the teaching-learning process, curricula and evaluation from lower-order thinking skills to higher-order skills. We at the institute impart experiential learning with a strong foundation of core courses with an interdisciplinary flavor along with supplementary courses aiming to hone thinking skills. The courses are designed and delivered in such a way that they add significant value to a student not only restricted to technology, but also core human values. The main focus of the institution is to empower students with sound knowledge, experience, and training so that they can achieve heights both at the academic level and highly competitive global industrial market respectively.

I once again welcome you, and wish you a bright success in your academic pursuit.

**Dr Rajesh Patel**

(I/c) Director General, Nirma University  
Dean, Faculty of Technology & Engineering  
Institute of Technology, Nirma University  
Director, School of Engineering

## DIRECTOR'S (SOT) MESSAGE

I extend a warm welcome to you as you consider joining Nirma University's School of Technology for our B.Tech and Integrated BTech -MBA Programmes. At Nirma University, we believe in fostering holistic development, nurturing talent, and providing a conducive environment for academic excellence and personal growth.

Our BTech and Integrated BTech - MBA Programmes are designed to equip you with a blend of technical expertise in field of computer engineering and managerial acumen, preparing you to thrive in the dynamic global business landscape. With a rigorous curriculum, experienced faculty, state-of-the-art facilities, and industry exposure, we strive to empower our students to become leaders and innovators in their chosen fields.



At Nirma University, we are committed to providing a transformative educational experience that goes beyond the classroom, encouraging innovation, entrepreneurship, and ethical leadership. Our objective is not just to educate, but to inspire and empower our students to make a meaningful impact on society.

I encourage you to explore the opportunities available at Institute of Technology, Nirma University and embark on this exciting journey with us. Join our vibrant community of learners and discover your potential to shape the future.

Warm regards.

**Dr. Himanshu Soni**

Director

School of Technology

Institute of Technology, Nirma University

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# 1. General Information

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## ABOUT THE INSTITUTE

**Founded with the vision of Padmashri Dr. Karsanbhai K. Patel, the Institute of Technology, Nirma University, earlier known as Nirma Institute of Technology, established in 1995, was the first self-financed engineering college in Gujarat. Institute of Technology, established in 1995, is the flagship Institute of Nirma University**

The Institute of Technology, a constituent Institute of Nirma University is identified with robust academic programmes, quality teaching-learning process and overall personality development interventions of its students. A blend of the young and experienced faculty, committed to teaching and research and have proven to be the best mentors to budding engineers. The Institute offers multidisciplinary undergraduate, postgraduate and doctoral programmes in Engineering and Technology. Discipline, an ethical and professional work culture, and commitment to providing quality education are the hallmarks that define the Institute.

The National Institutional Ranking Framework (NIRF), Ministry of Education, Government of India has consistently ranked Nirma University among the top 100 institutions in the country. The NIRF framework outlines a methodology to rank institutions across the country. The parameters broadly cover "Teaching", Learning and Resources", "Research and Professional Practices", "Graduation Outcomes", "Outreach and Inclusivity" and "Perception". The Institute figures in the top 15 self-financed colleges in the country and amongst top 3 in the state as positioned by top rated ranking agencies. The Institute is known for its prowess in the field of Artificial Intelligence and Machine Learning and has established a Centre of Excellence in Data Science in collaboration with the State University of Binghamton and another in Robotics and Automation.

The Institute has implemented the National Education Policy 2020 for first-year undergraduate students from the Academic Year 2022-23 and onwards. NEP 2020 envisages that the existing curriculum and pedagogy shall be restructured in such a way as to develop respect for the Fundamental Duties and Constitutional values. This would inculcate a conscious awareness of one's roles and responsibilities.

The Institute gives ample opportunities to its students and strives to equip our students in terms of providing the skills, ability and knowledge required for life-long learning and accolades.

### Accreditation

**The Institute of Technology is a constituent Institution of Nirma University. Nirma University and its constituent Institutions are accredited by National Assessment and Accreditation Council (NAAC), an autonomous institution of the University Grants Commission, Government of India with 'A+' grade.**

**Institute of Technology, Nirma University takes pride in announcing that all the Under Graduate programmes have undergone the National Board of Accreditation (NBA) process under Tier-I category.**

Within a short span of time, the Institute is recognized as one of the leading centre of higher education in the country. In addition to offering robust academic programmes and quality teaching-learning

process, the all-round development of students is planned through a blend of co-curricular, extra-curricular, societal and professional activities.

**Over the years, the Institute has worked towards achieving excellence and is now known for –**

- Excellent national reputation
- More than 200 companies enrolled for campus placements; excellent placement record across all branches
- New curriculum as per NEP- 2020
- Learner centric approach along with personalized attention to the students
- Focus on synergy between teaching and all-round development of the students
- Meritorious students with geographical diversity in undergraduate programmes
- Well placed closed-loop feedback system for curriculum development encompassing all the stake holders
- Globally compatible academic credit system with emphasis on continuous evaluation
- Well-disciplined conducive academic environment and ambience
- Active linkages with industries and research organizations
- Continuous emphasis on faculty and staff- development
- Strong commitment and dedicated efforts towards continuing education and pedagogy

**The Institute also offers a wide range of choices to cater to the diverse interests of students and provide additional opportunities to fast learners. Some of the initiatives to that effect are –**

- Introduced a new branch Electronics Engineering (VLSI Design & Semiconductor Technology) from academic year 2026-27 onwards.
- Interdisciplinary minors in the areas of Data Science, AI&ML, Robotics and Automation, Marketing, Finance, Entrepreneurship Development, Design and more.
- Large basket of Electives leading to specialization in a chosen area within the discipline
- Opportunity to work with faculty members on funded research projects from DST/ISRO/IPR and others
- Choice of Internship in the industry / foreign university or R & D organization for six months
- Value added courses like Design Thinking, Critical Thinking, ICT Tools, Cyber Security, Yoga & Meditation, Ethics & Values, Applied Literature and more
- Opportunities for Internship and enrolling in preapproved MS programmes in top-league US and Canadian universities such as University of Southern California, Iowa State University, Carlton University, Florida Atlantic University, etc.
- Funding and guidance for innovative ideas to promote start-up ventures
- Connect with the community through the community service programme

## Campus attractions

Nirma University's sprawling 115-acre campus features significant flora reserves, well-designed buildings, a herbal garden, a host of playgrounds, and peppered amongst these are 21 monumental sculptures to give shape to the vision of the Nirma University to let students seek inspiration in Art. The natural surroundings provide an opportunity for visitors to visually engage and explore these sculptures at their own leisure.

Twenty one sculptors were engaged to carve out these masterpieces on the university campus. The project, unprecedented in many ways, is aimed to renew societal interest in public art. This is a massive vision, one that has the potential to go beyond the boundaries of the Nirma University.

Workshop curators, Mr Surya Goswami, a senior sculptor, and Mr Atul Padia, an independent Visual Artist mobilised expert sculptors from Nagpur, Mumbai, Haryana, Punjab, Banaras, Udaipur, Thane, Saputara, Ahmedabad, and Vadodara. They traversed mines in search of the right raw materials and picked rocks of 8 different types for carving them into gigantic sculptures.

## Sculptures at the Campus

One cannot miss out the student statue at the entrance of the Nirma University. The statue has been created in Bronze in the year 2015. Weighing approximately 2400 kg, it is 11feet in length, 6 feet in width, and 10 feet in height made by Shri Ratilal Kansodaria (Ahmedabad). It represents a child who is studying.



## Goddess Saraswati Statue

The statue was made by Pandey Moorti Bhandar (Jaipur) from pure white spotless Makrana marble. The height of the statue is 5 feet. One cannot miss out the serene and calm impact it offers as one enters the gates of the Institute of Management, Nirma University. As we all know, Saraswati is a symbol of learning, it is rightly installed at the University, the hub of learning. Saraswati Statue Both, these statues and the other sculptures installed later are a part of our learning ambience.



## NETWORKING INITIATIVES

Memorandum of Understanding (MoU) helps in creating a seamless opportunity to explore collaboration and interaction between the players. The Institute has always strived to develop connect with other Universities & organizations of repute. Institute of Technology, Nirma University has various MoU with a number of Universities & Organizations- nationally and internationally.

### MoU with Foreign Universities/ Organizations

- MoU with Foreign Universities/ Organizations
- Arizona State University, US
- Carleton University, Canada
- Changwon National University, South Korea
- Coventry University, UK
- Curtin University, Australia
- Florida Atlantic University, Board of Trustees, USA
- Iowa State University, USA
- LaTrobe University, Australia
- Maker Bhavan Foundation, US
- Management and Science University, Malaysia
- Massachusetts College of Pharmacy and Health Sciences (MCPHS), US
- Memorial University of Newfoundland, Canada
- Pennsylvania State University, US
- Rochester Institute of Technology, US
- State University of New York at Binghamton, US
- The University of Dundee, UK
- University of Houston, US
- Universidad Publica de Navarra Nafarroako Unibersitate Publikao, Spain
- University of Southern California, USA
- University of Wyoming, USA
- USC Viterbi School of Engineering, USA
- RWTH Aachen University, Germany
- Dalhousie University, Canada

- Northeastern University, USA
- Technical University of Applied Sciences, Germany

### MoU with Educational Institutions / Research Organizations

- Advanced Materials and Processes Research Institute (AMPRI), Bhopal
- Ahmedabad Textile Industry's Research Association (ATIRA), Ahmedabad
- Building Energy Efficiency Project (BEEP)
- Central Building Research Institute, Roorkee
- Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar
- Finecure Pharmaceutical Company
- INS Valsura, Jamnagar, Gujarat
- Indian AirForce
- Institute of Plasma Research, Gandhinagar
- ITER India, Gandhinagar
- National Chemical Laboratory (NCL), Pune
- Physical Research Laboratory, Ahmedabad
- Sardar Patel Renewable Energy Research Institute (SPRERI), V.V.Nagar
- Satellite Application Centre, Indian Space Research Organization, Ahmedabad

### MoU with Industries

- Azure Knowledge Corporation Pvt.Ltd
- B&R Industrial Automation Pvt Ltd.
- Confederation of Indian Industries (CII)
- Dr Fixit Institute of Structural Protection and Rehabilitation

- D-360
- e-infochips, Ahmedabad
- enti INNOVATIONS Pvt. Ltd., Bengaluru
- NORD Drive Systems Pvt. Ltd., Pune
- NVIDIA Corporation
- Tata Consultancy Services iON
- Tata Motors Limited, Mumbai
- Inspiron Engineering Pvt Ltd. Ahmedabad
- IBM Technologies, Bengaluru
- INFOSYS Technologies, Bengaluru
- InspirOn Engineering Pvt. Ltd., Ahmedabad
- J K Lakshmi Cement Limited, Gandhinagar
- Larsen & Toubro Limited
- Mitsubishi Electric India Pvt. Ltd., Pune
- Polycab (I) Ltd
- Robert Bosch Engineering and Business Solution Pvt. Ltd. (RBEI), Bengaluru
- Secure Meters Limited, Udaipur
- Yudiz Solution
- Waaree Energies Limited

### MoU with Industries

- Finecure Pharmaceuticals Ltd.
- Gujarat Industrial Development Corporation, Gandhinagar
- Hitachi



## RECRUITERS

- Accenture India Private Limited
- Adani Group
- Aditya Birla [Birla Cellulosic]
- Amtech Electronics (India) Limited
- Aqua Gel Chemical Private Limited
- Argusoft India Limited
- Asea Brown Boveri Limited [ABB]
- Asia Motors Private Limited
- ATUL Limited
- Bayer India Limited
- BGR Energy Systems Limited, Chennai
- Bhagwati Associates Pvt Limited
- Cadila Healthcare Limited
- Capgemini India Co Private Limited
- Caterpillar India Pvt Ltd
- Cinemeta Entertainment (India) Private Limited
- CMC Limited
- Cognizant Technology Solutions India Private Limited
- Crompton Greaves Limited
- CSSI [Computer Solutions & Software International]
- Cybage Software Private Limited
- Cyberverx Software Solutions Private Limited
- Deloitte Consulting India Private Limited
- Denag Cranes & Components India (P) Ltd
- DLF Limited
- Dolcera ITES Pvt Ltd
- DOLPHIN Steel
- Construction LLC
- Doshi ION Exchange & Chemical Industries Limited
- Dresser Rand India Private Limited
- eClinical Works
- Eicher Motors Limited
- E-Infochips Limited
- Elitecore Technologies Limited
- EMCO Limited
- Emerson Process Management ( I ) Private Limited
- Entity Solutions Limited
- Erhardt + Leimer (India) Limited
- Erricson India Private Limited
- Essar Limited
- ETA Engineering Private Limited
- Evolutionary Systems Pvt Ltd
- FAG Bearings India Limited
- Feast Software Private Limited
- Fiserv
- FLD Smith Limited
- Freescale Semiconductors Limited
- Future First Info Services Private Limited
- Galaxy Group
- Gammon India Limited
- Gannon Drunkenly & Co Limited
- Gateway Technolabs Private Limited
- GEA Process Engineering (India) Limited
- Geometrics Global
- GHCL Limited
- GIFT [Gujarat International
- Finanace Tech City Co Ltd]
- GMMCO Limited
- GNFC [Gujarat Narmada Fertilizer Valley Corporation]
- Godrej & Boyce Mfg Co Limited
- GSFC [Gujarat State Fertilizers Corporation]
- Gujarat State Petronet

- |                                                 |                                                          |                                             |
|-------------------------------------------------|----------------------------------------------------------|---------------------------------------------|
| Limited                                         | • Jyoti Limited                                          | • NK Shah Consulting Eng.                   |
| • Hewlett Packard India Sales Private Limited   | • KABRA Extrusion Technik Limited                        | • Nokia Siemens Limited                     |
| • Hindustan Construction Company Limited        | • KAEFER Punj Llyod Limited                              | • nVidia Graphics Pvt Limited               |
| • Hindustan Uniliver Limited                    | • Kalpataru Power Transmission Limited                   | • Oracle India Private Limited              |
| • Hitachi Hirel Electronics Private Limited     | • KEC International Limited                              | • Pacific Pipe Systems Private Limited      |
| • Hitachi Home & Life Solutions (India) Limited | • Kothari Infotech Limited                               | • Pankaj Patel Associates                   |
| • IBM India (P) Limited                         | • Linde Engineering Pvt Ltd                              | • Patni Computer System Limited             |
| • ICICI Bank Limited                            | • Maharshi Electronics Private Limited                   | • Philips Limited                           |
| • IFB India Private Limited                     | • Mahindra & Mahindra Limited                            | • PMI                                       |
| • I-Flex India Private Limited                  | • Mahindra Gears & Transmissions Pvt Ltd                 | • Prima Automation India Private Limited    |
| • I-many Software Private Limited               | • Mechartes Researchers Pvt Ltd                          | • Real Soft (Intl) Private Limited          |
| • Impetus InfoTech (India) Private Limited      | • Microsoft India Private Limited                        | • Reliance Industries Limited               |
| • Indian Oil Corporation Limited                | • Misys International Financial Services Private Limited | • Reliance Infocomm Limited                 |
| • Indian Rayon and Industries Limited           | • Modiarc Electrodes Co Limited                          | • RFID-Radio Frequency Identification       |
| • Indusa Infotech Pvt Limited                   | • Mother Dairy India Limited                             | • Sabarmati Gas Limited                     |
| • InfoStretch Solutions Pvt Ltd                 | • Motorola India Private Limited                         | • SABIC Innovative Plastics India Pvt Ltd   |
| • Infosys Technologies Limited                  | • Morgan Stanley                                         | • Samyak InfoTech Private Limited           |
| • Ingersoll Rand                                | • National Instruments Systems (India) Private Limited   | • Sasken Communication Technologies Limited |
| • Intel India Pvt Limited                       | • Neilsoft Limited                                       | • Satyam Computer Services Limited          |
| • Jacobs Engineering Private Limited            | • NIELSEN                                                | • Schneider Electric India Private Limited  |
| • JK Laxmi Cement                               | • Nirma Limited                                          | • Secure Meters Limited                     |
| • JMC Projects India Limited                    |                                                          | • Shapoorji Pallonji & Co Limited           |
| • Jubilant Organosys Limited                    |                                                          |                                             |

- Sheladia Associates
- Shriram Alkali & Chemicals
- SHV Energy Private Limited
- Siemens Limited
- Solu-Soft India Private Limited
- ST Microelectronics Private Limited
- Synopsys (India) Private Limited
- Syntel Limited
- Tata Autocomp Limited
- Tata Chemicals Limited
- Tata Consultancy Engineers Private Limited
- Tata Consultancy Services Limited
- Tata ELXSI Limited
- Tata Motors Limited
- Tata Power Company Limited
- Tata Teleservices Limited
- Teach for India
- Tech Mahindra Limited
- Thermax Limited
- Thorogood Associates
- Torrent Pharmaceuticals Limited
- Torrent Power [AEC] Limited
- Transpek Industries Limited
- TVS Motor Company
- Ultratech Cement Limited
- Unigraphics Software
- Unikaihatsu Software Private Limited
- UPL Environmental Engineers Limited
- UST Global
- Vardhman Acrylics Limited
- Vavni Services Private Limited
- VC-ERP Consulting Private Limited
- Vedanta Resources
- Veeral Controls Private Limited
- Viraj Profile Limited
- Vodafone India Private Limited
- Wellspun India Limited
- Wipro Limited
- Zensar Technologies Limit
- Zeus Systems Private Limited

## PLACEMENT CELL (III CELL)

### About Industry Institution Interaction Cell

The Industry Institute Interaction Cell (III Cell) of the Institute of Technology aims to promote closer interaction between academia and Industries to enhance industry-academia relations and facilitate in establishment of strong linkages with industries. The purpose of the cell is to bridge the gap between industry and academia. The cell connects the competent talent pool available in the Institute with the industry. III Cell was established with the inception of the Institute to facilitate its students in their training and placement needs. It provides a professional platform to its students by connecting with organizations and bridging the gap between demand and supply. III Cell ensures that industries across the regions regularly visit campus for interaction focusing on engaging students in various domains such as inviting eminent speakers and industry experts to conduct various workshops, seminars, and expert sessions to share their rich experiences about the latest Industry trends which help students to develop in-depth understanding about current industry demand. Apart from this, they are also invited for curriculum design, skill development programs, workshops, training, internships, and campus hiring for students. III Cell offers young engineering aspirants real-time industry exposure which ultimately makes these students industry-ready and enhances their employment prospects.

The role of the III Cell is significant in the holistic development of students. The role has changed over the years with the ever-changing time wherein technology has brought notable changes in the socio-economic development of people across the globe. The same resulted in the changing industry demands and growing expectations of industries. To match the pace of the changing industrial scenario, III Cell facilitates its students in gaining practical exposure by inviting various industry experts on campus, industry visits for students, internships, Industry seminars, and workshops. The cell often works on developing critical skills of students towards enhancing their performances in the campus hiring process. III Cell also focuses on developing new industry linkages through the Industry Institute Interface.

### Placement Guidance and Training

III Cell Offers guidance to the fresh talent Pool on how to find the best career through various initiatives. Industry always prefers students who are strong in their domain and have business acumen, are street smart, well equipped with verbal and written communication skills, and are good in attitude and aptitude. To make students market-ready we focus on their domain knowledge and Life Skill Training. Special focus is given to Resume Writing, Aptitude & Technical Test preparation, GDPI preparation, Business Etiquette, Verbal & Written communication skills, Dressing & Grooming, Body Language, etc. Continuous monitoring of students while in training, we continuously strive hard towards working on developing mechanisms to keep track of our students' progress to ensure that they are well-trained, market-ready, and deployable from day one of their joining. Various inputs have been given to the students to ensure that students are well-equipped with industry-relevant skills & trained on specific skills. Therefore, we came up with a unique training program called 'Campus to Corporate' for 4th semester BTech students of all streams. The advanced level program will be conducted for students during their 5-6th Semester.

Critical Skills Training is required to achieve success in the campus placement process for graduating students every year. These skills are significant in boosting the performance levels of students during the selection process as they are just entering into the corporate world. These skills equip students with team effectiveness, leadership development, communication, and wise use of time and resources.

## **Internship and Campus Hiring**

III Cell of the Institute of Technology invites the best of the recruiters on campus to ensure that students get the right platform to start their professional careers. It has enhanced its reachability by overcoming barriers of regional boundaries by putting special efforts into industries situated within and out of Gujarat so that students get quality companies with lucrative stipends, pay packages, and better exposure. After years of hard work III Cell with the active support of departments including Heads of Departments and Faculty Placement Coordinators can create a preferred destination for many prominent industries pan India and abroad. Organisations like ABB Ltd., Alstom Transport, Amazon, ArcelorMittal Nippon Steel India Ltd., AMD, ARM, Adverb Technologies, Bank of America, CEAT Ltd., Deutsche Bank, Effiya Technologies, Essar Power Ltd., Flipkart, Gateway Techno labs, Gujarat Fluorochemicals Ltd., HLS Asia Ltd., Infineon Technologies, Intel India Private Ltd., KPMG in India, L&T Ltd., Media.Net, Microsoft, Micron Technology Inc., Mott Macdonald, Northern Trust Corporation, NVIDIA, NXP Semiconductor, PI Industries Ltd., Reliance Industries, Titan India Ltd., Secure Meters Ltd., Sears Inc., Siemens Ltd., State Street Corporation, Synopsys, TATA Chemicals Ltd., TATA Motors Ltd., TATA Power Ltd., Trading Technologies, Worley India Pvt Ltd., etc. and many more provide excellent internship and final placement opportunities to students.

The quality of placements is improving with better brands recruiting from us. A notable feature is the involvement of Top Management from many industries. At the same time, their expectations from our students have also increased. Top recruiters expect the quality of students to be at par with the other Top Institutes. They also expect students to be market-ready with high-quality technical and employability skills. Graduating students are absorbed by prominent organisations into IT, Banking, Consulting, Manufacturing, Core Engineering, Fintech, and Service sectors, etc.

## **Industry-Academia Collaboration**

Memorandum of Understandings (MOUs) have been signed with prominent Industries like TATA Motors Ltd, L&T Construction Ltd, Secure Meters Ltd, eInfochips (An Arrow Company), Milacron India Pvt Ltd, NVIDIA Corporation, USA, B&R Industries Automation Pvt. Ltd., Fine cure Pharmaceuticals Ltd., Ahmedabad, Infineon Technologies, Worley India, Azure Knowledge Corporation Pvt. Ltd., JK Lakshmi Cement Ltd. Kalol, Mitsubishi Electric India Private Limited, Haryana, Robert Bosch Engineering & Business Solution Pvt. Ltd. (RBEI), Bangalore, Infosys Limited, Bangalore, INS Valsura The Premier Electrical Training Establishment of the Indian Navy, Confederation of Indian Industry, etc. to allow students to engage themselves in the practical learning process, gain substantial knowledge about current industry trends and professional working style. It further helps students to develop the right approach and adaptability required in the professional environment.

## INFORMATION ABOUT ALUMNI ASSOCIATION

### Nirma University Alumni Forum

We, at Nirma University, are proud of our Alumni and the difference they have made to the world around them. Their contributions have been acknowledged by organizations and institutions as they have marched ahead creating value and opportunities on the way. With more than 2000 members joining the group every year, the alumni network with about 15000 members currently is growing stronger year on year.

The University has constituted 'Nirma University Alumni Association' with the objective to foster continuous engagement of the alumni with their Alma mater and to draw their expert knowledge in the relevant fields to further enhance, strengthen and reinforce the over-all quality of the constituent Institutes of the University.

The Alumni association has been established by Nirma University for the contacts with Alumni and subsequent interaction with students and institute faculty. At active participation of Alumni members is the strength of the alumni association. It is note worth that the Alumni are spread all across globe for higher studies as well as for jobs.

The association shall have the following broadly identified objectives in the field of Engineering and allied branches.

- To establish and maintain contact between the past students, present students and the Institute of Technology.
- To pursue and sustain excellence in Education by interaction between the alumni, faculty and present students of the Institute.
- To strengthen Industry-Institute-Interaction and operate related activities for the benefit of students of the Institute.
- To extend all assistance and co-operation to the institute in its endeavors for the growth and development of education and research in the field of technology.
- To encourage and assist the students of the Institute of Technology in various academics and cultural activities.
- To establish endowments by donation to extend financial and other assistance to deserving students of the Institute for educational and research purposes as per the terms and conditions or as mutually decided with the Board of Management.
- To give away scholarships and awards for deserving past and present students of the Institute of Technology for educational and research purposes as per the terms and conditions to be laid down by the Board of Management.
- To establish endowments by donation to create Chair/s of Professor/s Emeritus in Nirma Institute of Technology in professional and related areas.

- To generate funds through donation for conducting activities for achieving the objectives of the association.
- To project constructive activities of Institute of Technology in India and abroad.
- To provide a common platform for exchange of ideas and disseminating knowledge in professional areas.
- To perform any other constructive activities leading towards the enhancement of the skill and knowledge of the members of the association.

### Activities by Alumni Association

The Institute of Technology through various departments is involved in various activities for a better Alumni Connection. The institute already has 20000+ alumni members and we are continuously involved in various activities for a better connection. Some of these activities are mentioned as under:

- Annual get together on the first Saturday of every year.
- Alumni Meet is arranged in various cities of India and abroad
- Scholarship to existing students of all branches of BTech and MCA based on merit cum means
- Alumni Awards one per department are announced on the Foundation Day of the Institute (ie 3rd October)
- Alumni Expert Talks conducted department wise or at Institute Level
- Career guidance Seminar and various other interaction sessions for the existing students

The Alumni data management is maintained by online portal named ALMA CONNECT in which, more than 20000+ Alumni members have registered so far.



## SALIENT FEATURES ABOUT THE INSTITUTE

### Research & Consultancy

Over the years, the Institute of Technology has become more focused on research and has earned an increasing number of consultancies, funded research projects and delivered efficient custom training programmes for scientific organizations and industries. The vision of the leadership, excellent infrastructure & committed faculty has helped create an environment conducive to research. The Institute is emerging as a centre of excellence in multi-disciplinary areas and is committed to cutting-edge research.

### Pedagogy

The institute makes use of an appropriate mix of pedagogical tools to train students. This includes lectures from in-house and visiting faculty and experts, seminars, discussions and industrial visits. Continuous evaluation and counselling are important features of each academic programme. Keeping in view the Graduate attributes as demanded by the stakeholders, Institute has revised the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Course Learning Outcomes (CLOs) of every programme and course. All the outcomes are achievable and tangible. A closed-loop system, encompassing students' feedback is practiced for monitoring the system of course delivery. Institute, being a catalyst of change has done a drastic curriculum reform has judiciously amalgamated legacy courses (core and humanities) with future courses (the one which are emerging and will emerge). The diversification of the course was done keeping in view of the need of 21 century work-places. The workplace demands students having global, environmental and societal awareness that can provide solutions and innovation for societal benefit.

The innovations and initiatives encompass depth and breadth of programs. The commitment was also to introduce lifelong learning courses, enrichment courses, and value-added courses among other equally important ancillary courses.

The institute makes use of an appropriate mix of pedagogical tools to train students to handle professional responsibilities. These include lectures by an appropriate mix of in-house and visiting faculty, expert lectures, discussions, seminars, project assignments and visits to industries and project sites. Continuous evaluation and counselling are important parts of the academic programme.

### The Approach to Learning

The Institute synthesizes traditional methods of learning with interactive teaching-learning aids like field-based projects, interaction with practitioners, use of computers and multimedia, creative co-curricular activities for a holistic development of students. The institute lays emphasis on continuous evaluation and credit-based system with weightage on different components of study. Keeping in mind the graduate skill set desire has shifted, the Institute focus on teaching-learning process, curricula and evaluation away from lower-order thinking skills, such as remembering and understanding to higher-order skills, such as analyzing and solving engineering problems. Hence imparting experiential learning

with a strong foundation of core courses with an interdisciplinary flavor along with courses aiming to hone thinking skills, such as design thinking and critical thinking forms the basis of the pedagogy followed at the Institute.

We have implemented the National Education Policy 2020 for first-year student from the Academic Year 2022-23 and onwards. NEP 2020 envisages that the existing curriculum and pedagogy shall be restructured in such a way to develop respect for the Fundamental Duties and Constitutional values, and conscious awareness of one's roles and responsibilities among the students and to inculcate the appreciation among the students regarding the knowledge, skills, values, and dispositions that support responsible commitment to human rights, sustainable development and living, and global well-being, thereby reflecting a truly global citizen.

### **Teaching Learning Process**

The institute has a credit-based evaluation system which motivates students for systematic and continuous study and appraises students on the basis of project work, problem solving, classroom assessment methods, examinations and other tools to evaluate both cognitive as well as applied learning. Self-development, communication skills, societal and environmental awareness, project-based learning are salient features of the teaching learning process. Through projects and internships, students are given sufficient opportunities and support to apply their learning in real life

### **Courses and Assessment**

Nirma University has a credit-based evaluation system. It is devised to motivate students for systematic and continuous study. Term assignments, laboratory and project work are given great importance and are continuously assessed. Moreover, there is a Semester End Examination for theory courses. The institute has also initiated a number of measures to bring the curricula and assessment system of its programmes in conformity with international norms. Open book examination is one of them. Provision is also made for remedial teaching wherever necessary.

Special attention is given to improve English language and Communication Skills of the students. Supplementary courses that promote self-development, societal and environmental awareness are also offered. For talented and motivated students, there is a provision of Audit courses. These are additional and optional courses to cultivate familiarity with emerging or advanced interdisciplinary topics.

### **Discipline - The Keyword**

The Institute has earned a name for quality education. This is due to the efforts and devotion of well-qualified faculty of the institution. The academic calendar for the whole year is notified in the beginning and is strictly adhered to. Students' attendance is compulsory and shortfall is notified. It is expected from every student that he/she should conduct himself/herself with discipline, decency and dignity both inside and outside the campus. The institute sends progress reports of the students to their parents periodically with a view to keep them informed. The Institute follows value-based culture and the same is reflected in the norms set by it. Gujarat is a Dry state and consumption of any alcoholic drink is strictly prohibited.

Nirma University campus is fully vegetarian and any kind of non-vegetarian food is not allowed on the campus.

## Counselling

Student counselling is a distinguished feature of the institute. Each faculty member is assigned about 18 to 20 students. The faculty meets them periodically and reviews their attendance, submissions, academic performance and provides necessary guidance for improvement. In addition to this, the Institute also provides the services of a professional psychological counsellor who can be approached for any other issues that hinder the learning progress of the students.

## Centre for Excellence in Data Science

Data Science is an interdisciplinary field consisting of methods and systems to extract knowledge and insights from data. It encompasses statistics, machine learning, visualization, business analytics, data analytics, and scientific computing. India has demonstrated rapid and sustained economic growth over the last decade and recent developments suggest that a focus on data science is a need of the hour. Taking this into consideration, Institute of Technology, Nirma University has established a Centre of Excellence in Data Science in collaboration with SUNY, Binghamton University, New York, USA.



## Centre for Robotics and Automation

The Centre for Robotics and Automation at Institute of Technology, Nirma University facilitates the researchers by providing an environment to develop and upgrade the robotic technology. The research and development in the said field would provide innovative solutions to many automation companies. The Centre aims to provide an interdisciplinary environment and bring together the research groups involved in robotics, control engineering, embedded systems, industrial automation, artificial intelligence, computer coding, machine learning and other related technologies. The state-of-the-art facilities at the Centre would play a vital role in the advancement of robotics and automation field. It also aims to facilitate the need to create industry-ready manpower by imparting training.



## Cyber Security Laboratory

The Cyber Security Laboratory under the aegis of Department of Computer Science & Engineering is equipped with forensic tools, high-end workstations, and specialized hardware and software for developing and analyzing secure network infrastructure. Students gain hands-on experience with industry-relevant tools such as Wireshark, Burp Suite, Nessus, Nmap, SQLMap, John the Ripper, Hydra, Autopsy, VirtualBox, and Python, along with various open-source cybersecurity tools. The laboratory provides practical exposure to network security, vulnerability assessment, digital forensics, penetration testing, and security analysis, enabling students to develop essential skills for addressing real-world cybersecurity challenges.



## Networking and Internet of Things Laboratory

The Networking and Internet of Things Laboratory, under the aegis of the Department of Computer Science and Engineering, provides a comprehensive environment for hands-on learning in computer networking and IoT. The laboratory is equipped with Cisco routers, Layer 2 and Layer 3 switches, wireless access points, and networking accessories, along with a wide range of IoT platforms including Arduino, ESP8266, ESP32, Raspberry Pi, NVIDIA Jetson, XBee, Bluetooth, LoRaWAN, and Wi-Fi technologies. Students gain practical experience in developing intelligent IoT solutions using diverse sensors, actuators, and embedded components, covering applications in sensing, communication, automation, and smart systems.

## Tinkerers' Lab

Tinkerers' Lab at Nirma University provides a multidisciplinary, hands-on environment where students can transform ideas into functional prototypes through learning by doing. Equipped with a wide range of tools and equipment, the lab encourages students to think, learn, and build together, while developing critical thinking, teamwork, problem-solving, and practical skills. Supported by the Maker Bhavan Foundation (MBF), California, USA, the lab extends Nirma University's project-based learning ecosystem and promotes collaboration across disciplines. Students can participate in training programmes, workshops, events, lectures, and courses organized by student managers of the lab. Students from all constituent institutes of Nirma University can access and utilize the Tinkerers' Lab facilities, making it a shared platform for innovation, prototyping, and multidisciplinary learning.



## Param Shavak Supercomputing Facility

The Department of Computer Science and Engineering, Institute of Technology, Nirma University has established a Supercomputer facility for the students and academic researchers for conducting research and advanced computing studies in the field of High-Performance Computing. For the facility, the supercomputer known as 'Param Shavak' has been received by Dr Madhuri Bhavsar (Head of CSE department) and Dr Zunnun Narmawala (Associate Professor) during Vibrant Summit organised by the Government of Gujarat.

The supercomputing facility aims at providing computational resources with advanced technologies to perform high-end computations for scientific, engineering and academic programs to address and catalyse the research using modelling, simulation and data analysis. It will also help to create a pool of skilled professionals working in high-performance computing and Data Science, thereby creating employment opportunities for students in R & D Organisations and Industry.

## Cyber Physical Systems Lab

The Cyber-Physical Lab at Electronics and Communication Engineering Department stands as a testament to the institution's commitment to nurturing innovation and technological advancement. With its different kinds of IoT kits, more than 50 types of sensor boards, RFID and NFC boards, Drones, Development boards for Edge Devices, High End computing systems with Intel Core i7 Processor with GPGPU and touch screen display, Industrial grade Computers, the laboratory serves as a crucible for fostering innovation and exploration in the realms of Cyber Physical Systems. The well-equipped hardware and software facility offers UG and PG students and PhD scholars a dynamic environment to explore the boundaries of Cyber Physical System technology. The laboratory is not only a place of experimentation but also a hub for preparing the next generation of innovators and problem solvers who can shape the future of technology with Cyber Physical Systems.



## INSTITUTE RANKINGS

Nirma University was awarded the Centre of Excellence (CoE) status by the Government of Gujarat in the International Conference of Academic Institutions, part of the Vibrant Gujarat Education Summit 2022.

The National Institutional Ranking Framework (NIRF), Ministry of Education, Government of India has consistently ranked Nirma University among the top 100 institutions in the country. The NIRF framework outlines a methodology to rank institutions across the country. The parameters broadly cover "Teaching", Learning and Resources", "Research and Professional Practices", "Graduation Outcomes", "Outreach and Inclusivity" and "Perception".

| Year/Category | University                 | Engineering                |
|---------------|----------------------------|----------------------------|
| 2026          | In the Rank-Band 101 – 150 | In the Rank-Band 101 – 150 |
| 2025          | In the Rank-Band 101 – 150 | In the Rank-Band 101 – 150 |
| 2024          | In the Rank-Band 101 – 150 | In the Rank-Band 101 – 150 |

Institute of Technology, Nirma University ranking highlights are mentioned as below:

### Other Rankings

#### Non-Government Rankings

Nirma University ranks among the 'Top 10 Private Universities in India' in the annual university rankings published by India Today in its August 2023 issue. The university secured the seventh position among 446 private universities in India. Further, Nirma University ranks as the 'Top Private University' in the West Zone region.

Education Post magazine ranks the Nirma University at 3rd position in the list of Top 100 Private University (Overall) in the Indian Institutional Ranking Framework 2023 in its March-April 2023 issue.

| SR NO.      | Rank, Level of Rank (City, State, National) | Ranking Agency Name            | Ranking Details                                 | Level of Rank (City, State, National) |
|-------------|---------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------|
| <b>2026</b> |                                             |                                |                                                 |                                       |
| 1           | 3rd                                         | India Today                    | Top best Private Engineering Colleges Zone Wise | West Zone                             |
| 2           | 14th                                        | India Today                    | Top best Private Engineering Colleges in India  | National                              |
| 3           | 37th                                        | The Week Hansa Research Survey | Best Engineering Colleges in India              | National                              |

|    |      |                                  |                                                                                             |           |
|----|------|----------------------------------|---------------------------------------------------------------------------------------------|-----------|
| 4  | 13th | The Week                         | Best Private Engineering Colleges in India                                                  | National  |
| 5  | 2nd  | The Week                         | Best Private Engineering Colleges in West Zone                                              | West Zone |
| 6  | 1st  | Competition Success Review (CSR) | Supreme Engineering Colleges of India                                                       | National  |
| 7  | 1st  | Competition Success Review (CSR) | Top 20 Engineering Colleges Ranked by Faculty, Research, Consultancy, EDP & Other Programme | National  |
| 8  | 7th  | Competition Success Review (CSR) | Placements, USP, Social Responsibility, Networking & Industry Interface                     | National  |
| 9  | 31st | Career 360                       | Best Private Engineering Colleges of India                                                  | National  |
| 10 | 18th | Education World (EW)             | EW have published the survey for top 250 engineering institutes in India.                   | National  |

### 2025

|   |      |                                  |                                                                                             |           |
|---|------|----------------------------------|---------------------------------------------------------------------------------------------|-----------|
| 1 | 37th | The Week                         | Best Engineering Colleges in India                                                          | National  |
| 2 | 13th | The Week                         | Best Private Engineering Colleges in India                                                  | National  |
| 3 | 2nd  | The Week                         | Best Private Engineering Colleges in West Zone                                              | West Zone |
| 4 | 3rd  | India Today                      | The best engineering colleges of west zone                                                  | West Zone |
| 5 | 13th | India Today                      | The best private engineering colleges of India                                              | National  |
| 6 | 1st  | Competition Success Review (CSR) | Supreme Engineering Colleges of India                                                       | National  |
| 7 | 1st  | Competition Success Review (CSR) | Top 20 Engineering Colleges Ranked by Faculty, Research, Consultancy, EDP & Other Programme | National  |
| 8 | 9th  | Competition Success Review (CSR) | Placements, USP, Social Responsibility, Networking & Industry Interface                     | National  |

|             |       |                           |                                                                                                            |          |
|-------------|-------|---------------------------|------------------------------------------------------------------------------------------------------------|----------|
| 9           | AAAA  | Career 360                | Top Sate Private Universities of Gujarat                                                                   | State    |
| 10          | 23rd  | Career 360                | Best Engineering Colleges of India                                                                         | National |
| <b>2024</b> |       |                           |                                                                                                            |          |
| 1           | 30    | Competition Sucess Review | Competition Sucess Review published the rankings for top engineering colleges in India                     | National |
| 2           | 13    | India Today               | India Today – MDRA survey published best private engineering colleges of India in May 2024                 | National |
| 3           | 1     | Competition Sucess Review | Competition Sucess Review published the rankings for top engineering colleges in Gujarat                   | National |
| 4           | 27    | Education World (EW)      | EW have published the survey for private higher education rankings for engineering institutes in May 2024. | National |
| 5           | AAAA+ | Careers 360               | Careers 360 published rankings for best Indian Engineering colleges top 100 in Research March 2024.        | National |
| 6           | 47    | The Week                  | The week published India's best universities in June 2024                                                  | National |
| 7           | 13    | India Today               | India Today – MDRA survey published best colleges of India zone wise and national level in May 2024.       | National |
| 8           | 31    | Careers 360               | Careers 360 published rankings for best Private Universities in India March 2024.                          | National |

## DEPARTMENTS OF SCHOOL OF ENGINEERING (SoE) & SCHOOL OF TECHNOLOGY (SoT)

### Institute

To accommodate diverse engineering disciplines, the Institute of Technology, Nirma University features two schools: the School of Engineering for traditional core branches & School of Technology on Computing and advanced technical domains.

### Role of Departments

Departments play a pivotal role in developing and implementing academic programmes. School of Technology constitutes of Computer Science & Engineering (CSE) including the programme of Masters of Computer Application and BTech CSE (Artificial Intelligence and Machine Learning) has been introduced from academic year 2024-25, Electronics & Communication Engineering (EC) including the programme of Electronics Engineering (VLSI Design & Semiconductor Technology) and Electronics & Instrumentation (E&I) Departments.

The School of Engineering constitutes of Chemical Engineering (CH), Civil Engineering (CL), Electrical Engineering (EE), and Mechanical Engineering (ME) Departments. Each department has different sections according to the programmes/specialties handled by it.

Mathematics is a diverse field and finds its application in various disciplines of sciences, engineering and technical domain. The Department of Mathematics serves as the ancillary department to the Institute of Technology. The Department of Humanities and Social Sciences under the aegis of the Institute of Technology provides students with well-grounded intellectual resilience and a disposition toward lifelong learning.

The institute has evolved a participatory model of administration through which all proposals of budgetary allocation, academic development, curricular reforms, laboratory updates etc. first originate at the section level and then are finalized at the department and higher level. In this context the role of the faculty in the total process of teaching-learning assumes great importance.

### Faculty

Through a judicious recruitment policy and enlightened approach, University has ensured that the institute is staffed by a well-qualified and competent faculty to shoulder the responsibilities of maintaining high standards of education in the institute. In keeping with the aims outlined in the mission statement, the faculty members remain fully conscious of their dual role both as teachers to impart efficiently technical knowledge to students and counsellors to guide them for their overall development.

The faculty at the institute comprise of the pool of talented and dedicated faculty members committed to teaching – learning process with diversified wealth, knowledge, experience and academic specialty. In this ever-changing technical world, the faculty members keep themselves updated with the state-of-the-art tools and technologies. They also contribute to the technical fraternity through research and development in their respective domains.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAMME OUTCOMES (POs)

By understanding that the traditional model of education is getting digressed in its path by giving more importance to teaching than learning, we have focused upon precise learning outcomes and articulating them as Programme Educational Objectives (PEOs) and Programme Outcomes (POs). Adoption of Outcome Based Education was the pivotal decision to make education delivery learner-centric. We understand that students have diverse learning needs. High impact- high attainment methods such as experiential learning which involves experimentation- experience- reflection-conceptualization in iterative manner; project-based learning is used for hands on experience and cognitive-learning.

The assurance of Learning is well structured. The well-articulated Graduate attribute (as desired by various stakeholders) are mapped with Programme Educational Objectives (PEOs) which in turn percolate down to Course Outcome (CO). The tangible outcomes are attained through various indirect and direct assessment (formative and summative) methods.

Program Educational Objectives (PEOs) are the statements that describe the expected achievements of graduates within first few years of their graduation from the program. The PEOs may be guided by global and local needs, vision of the Institution, long term goals etc.

Programme Outcomes (POs) statements about the knowledge, skills and attitudes (attributes) the graduate of a formal engineering program should have.

The following are the PEOs and POs of B Tech programme: -

| PROGRAM EDUCATIONAL OBJECTIVES (PEOs)                                                                                                                                                                                                                                                            | PROGRAMME OUTCOMES (POs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>The Program Educational Objectives of BTech. Programme are:</b></p> <ul style="list-style-type: none"> <li>• <b>PEO I:</b> To prepare graduates who will be successful professionals in industry, government, academia, research, entrepreneurial pursuit and consulting firms.</li> </ul> | <p><b>Undergraduate engineering programme are designed to prepare graduates to attain the following program outcomes:</b></p> <ul style="list-style-type: none"> <li>• <b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</li> <li>• <b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</li> </ul> |

|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• <b>PEO II:</b> To prepare graduates who will contribute to society as broadly educated, expressive, ethical and responsible citizens with proven expertise.</li> </ul>                        | <ul style="list-style-type: none"> <li>• <b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.</li> <li>• <b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions</li> </ul>                          |
| <ul style="list-style-type: none"> <li>• <b>PEO III:</b> To prepare graduates who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, design and implementation skills.</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Engineering Tool usage:</b><br/>Create, select and apply appropriate techniques, resources and modern engineering &amp; IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.</li> <li>• <b>The engineer and the World:</b><br/>Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.</li> </ul>                                                       |
| <ul style="list-style-type: none"> <li>• <b>PEO IV:</b> To prepare graduates who will thrive to pursue life-long learning to fulfill their goals.</li> </ul>                                                                           | <ul style="list-style-type: none"> <li>• <b>Ethics:</b><br/>Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</li> <li>• <b>Individual and Collaborative Team work:</b><br/>Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.</li> <li>• <b>Communication:</b><br/>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</li> </ul> |

presentations, and give and receive clear instructions.

- **Project management and finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- **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.



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# 2.

# Student Centric Information

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# ACADEMIC CALENDAR

Term: Odd: 2026-2027

## • B Tech Semester – I (All Programmes)

### • Integrated B Tech-MBA Semester-I (CSE-MBA & ME-MBA)

- |                                      |                                         |
|--------------------------------------|-----------------------------------------|
| • Semester commencement              | 18 -07- 2026                            |
| • Orientation                        | 18-07-2026 to 31-07-2026                |
| • Teaching Phase-I                   | 03-08-2026 to 05-10-2026                |
| - Academic / Attendance Review-I     | 16-09-2026 to 18-09-2026                |
| - Sessional Examination              | 06-10-2026 to 09-10-2026                |
| • Teaching Phase-II                  | 03-08-2026 to 05-10-2026                |
| - Academic / Attendance Review-II    | 16-10-2026 to 19-10-2026                |
| - Parents Teacher Meet               | 31-10-2026                              |
| • Diwali Vacation                    | 06-11-2026 to 13-11-2026<br>[Tentative] |
| • Teaching Phase-III                 | 16-11-2026 to 05-12-2026                |
| • LPW Examination (Teaching Conti..) | 25-11-2026 to 04-12-2026                |
| • Final Attendance Review            | 05-12-2026                              |
| • Semester End Examination           | 10-12-2026 onwards                      |
| • Commencement of next semester      | 21-12-2026                              |

## EVENT

|                |            |
|----------------|------------|
| Foundation Day | 03-10-2026 |
|----------------|------------|

## HOLIDAYS

- |                                                          |            |
|----------------------------------------------------------|------------|
| • Independence Day                                       | 15-08-2026 |
| • Rakshabandhan                                          | 28-08-2026 |
| • Janmashtam                                             | 04-09-2026 |
| • Samvatsari / Ganesh Chaturthi                          | 15-09-2026 |
| • Mahatma Gandhi's Birthday /<br>Dussehra (Vijya Dashmi) | 02-10-2026 |
| • Dussehra (Vijya Dashmi)                                | 20-10-2026 |
| • Guru Nanak's Birthday                                  | 24-11-2026 |

## IMPORTANT CONTACT PLACES

| Sr. No. | Office                                        | Name of Contact             | Contact Details                |               | Location                         |
|---------|-----------------------------------------------|-----------------------------|--------------------------------|---------------|----------------------------------|
|         |                                               |                             | Email ID                       | Ext No.       |                                  |
| 1       | Director, School of Engineering               | Dr Rajesh Patel             | director.it@nirmauni.ac.in     | 9503 (PA)     | A-Block                          |
| 2       | Director, School of Technology                | Dr Himanshu Soni            | director.sot@nirmauni.ac.in    | 9535 (PA)     | E-Block (12 <sup>th</sup> Floor) |
| 3       | Assistant Registrar (General Administration)  | Shri Dinesh Patel           | ar.it@nirmauni.ac.in           | 9512          | A-Block                          |
| 4       | Assistant Registrar (Academics)               | Dr Kehul Shah               | ar.itacad@nirmauni.ac.in       | 9513          | E-Block (12 <sup>th</sup> Floor) |
| 5       | Head, First Year                              | Dr Dipak Adhyaru            | head_fy.it@nirmauni.ac.in      | 9411          | D-Block                          |
| 6       | HoD, ME                                       | Dr Vikas Lakhera            | hod_mech.it@nirmauni.ac.in     | 9102          | A-Block                          |
| 7       | HoD, CH                                       | Dr Milind Joshipura         | hod_chem.it@nirmauni.ac.in     | 9136          | A-Block                          |
| 8       | HoD, EE                                       | Dr Siddharthsingh Chauhan   | hod_ee.it@nirmauni.ac.in       | 9401          | D-Block                          |
| 9       | HoD, CL                                       | Dr Parul Patel              | hod_civil.it@nirmauni.ac.in    | 9211          | B-Block                          |
| 10      | HoD, CSE                                      | Dr Ankit Thakkar            | hod_ce.it@nirmauni.ac.in       | 9212          | E-Block (5 <sup>th</sup> Floor)  |
| 11      | HoD, EC                                       | Dr Nagendra Gajjar          | hod_ec.it@nirmauni.ac.in       | 9402          | D-Block                          |
| 12      | HoD, EI                                       | Dr Himanshu Patel           | hod_ei.it@nirmauni.ac.in       | 9405          | D-Block                          |
| 13      | HoD, Mathematics                              | Dr Kunal Pathak             | hod_maths.it@nirmauni.ac.in    | 9216          | B-Block                          |
| 14      | HoD, Humanities                               | Dr Richa Misha              | hod_hss.it@nirmauni.ac.in      | 9215          | B-Block                          |
| 15      | Programme Coordinator (Intg. Btech (CSE) MBA) | Dr Ankit Thakkar            | ankit.thakkar@nirmauni.ac.in   | 9217          | E-Block (5 <sup>th</sup> Floor)  |
| 16      | Programme Coordinator (Intg. Btech (ME) MBA)  | Dr Mayur Makhesana          | mayur.makhesana@nirmauni.ac.in | 9109          | Central Workshop                 |
| 17      | Student Section, ITNU                         | Shri Praful Saini (OS, STS) | sts.it@nirmauni.ac.in          | 9321/<br>9322 | B-Block (STS)                    |

| Sr. No.                                | Office                                                   | Name of Contact             | Contact Details                                  |           | Location                                         |
|----------------------------------------|----------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------|--------------------------------------------------|
|                                        |                                                          |                             | Email ID                                         | Ext No.   |                                                  |
| 18                                     | Exam Section, ITNU                                       | Mr Digant Oza (Jr.OS, Exam) | examsection.it@nirmauni.ac.in                    | 9513      | E-Block (12 <sup>th</sup> Floor)                 |
| 19                                     | Library                                                  | Mr Sujal Soni               | nulib@nirmauni.ac.in / sujal.soni@nirmauni.ac.in | 9203      | E-Block (4 <sup>th</sup> -7 <sup>th</sup> Floor) |
| 20                                     | III Cell (Placement), ITNU                               | Mr Sunil Pandi              | placement.itnu@nirmauni.ac.in                    | 9141      | K-Block                                          |
| 21                                     | Jr. Office Superintendent, SoT                           | Mr Maulik Panchal           | maulik.panchal@nirmauni.ac.in                    | 9322      | B-Block (STS)                                    |
| 22                                     | Jr. Office Superintendent, SoE                           | Ms Alka Darji               | alka.darji@nirmauni.ac.in                        | 9105      | A-Block                                          |
| <b>Institute level Committees/Cell</b> |                                                          |                             |                                                  |           |                                                  |
| 23                                     | Anti Ragging Committee & Anti Drug Committee             | Dr Amisha Naik              | amisha.naik@nirmauni.ac.in                       | 9412      | D-Block                                          |
| 24                                     | Grievance Redressal Cell                                 | Shri Dinesh Patel           | ar.it@nirmauni.ac.in                             | 9512      | A-Block                                          |
| 25                                     | Women Development Cell - SoE                             | Shri Dinesh Patel<br>x      | ar.it@nirmauni.ac.in                             | 9512      | A-Block                                          |
| 26                                     | Women Development Cell - SoT                             | Dr Sonia Mittal             | sonia.mittal@nirmauni.ac.in                      | 9217      | E-Block (5 <sup>th</sup> Floor)                  |
| 27                                     | Equal Opportunity Cell                                   | Dr Milind Joshipura         | milind.joshipura@nirmauni.ac.in                  | 9136      | A-Block                                          |
| 28                                     | Student Activities                                       | Dr Milind Joshipura         | milind.joshipura@nirmauni.ac.in                  | 9136      | A-Block                                          |
| 29                                     | UG Students Research Cell - SoE                          | Dr Santosh Vora             | santosh.vora@nirmauni.ac.in                      | 9412      | D-Block                                          |
| 30                                     | UG Students Research Cell - SoT                          | Dr Ankit Thakkar            | ankit.thakkar@nirmauni.ac.in                     | 9217      | E-Block (5 <sup>th</sup> Floor)                  |
| 31                                     | NITAA - Nirma Institute of Technology Alumni Association | Dr Sanjay Jain              | sanjay.jain@nirmauni.ac.in                       | 9109      | A-Block                                          |
| <b>Central Offices/ Facilities</b>     |                                                          |                             |                                                  |           |                                                  |
| 32                                     | Exam Section, NU                                         | Dy. Registrar(EXAM), NU     | dy_registrar.exam@nirmauni.ac.in                 | 9671/9698 | E-Block (12 <sup>th</sup> (A)Floor)              |

| Sr. No. | Office                                                                                                                      | Name of Contact                                      | Contact Details                |               | Location                               |
|---------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------|---------------|----------------------------------------|
|         |                                                                                                                             |                                                      | Email ID                       | Ext No.       |                                        |
| 33      | Account Section, NU                                                                                                         | Chief Accounts Officer                               | account_officer@nirmauni.ac.in | 9674          | E-Block<br>(12 <sup>th</sup> (A)Floor) |
| 34      | Academic Section, NU                                                                                                        | Dy. Registrar<br>(Academics), NU                     | asst_registrar@nirmauni.ac.in  | 9679/<br>9680 | E-Block<br>(12 <sup>th</sup> (A)Floor) |
| 35      | Internal Complaint Committee (for prevention, prohibition and redresal of Sexual Harassment of Women Employee and Students) | Dr. Ravindra Sen<br>Dy. Registrar<br>(Academics), NU | dy_registrar.nu@nirmauni.ac.in | 9680          | E-Block<br>(12 <sup>th</sup> (A)Floor) |
| 36      | Centre for Continuing Education                                                                                             | Dr Yogesh Trivedi                                    | head.cce@nirmauni.ac.in        | 9404          | D-Block                                |
| 37      | Student Welfare (NU)                                                                                                        | Dr Bhavesh Parekh                                    | studentwelfare@nirmauni.ac.in  | 557           | ID-Block                               |
| 38      | Counsellor                                                                                                                  | Dr Sapna Bhatt                                       | sapna.bhatt@nirmauni.ac.in     |               | NIM                                    |
| 39      | Health Centre, NU                                                                                                           | Dr Rajesh B Patel                                    | healthcentre.nu@nirmauni.ac.in | 9222          | Nr. DG Set                             |
| 40      | Transport Section, NU                                                                                                       | Shri Shailesh Patel                                  | transport@nirmauni.ac.in       | 9157          | Parking Area (Behind A-Block)          |
| 41      | Kalupur Bank (on NU campus)                                                                                                 | Branch Manager                                       | nirmauni@kalupurbank.com       | 9152          | K-Block                                |
| 42      | Canteen (K-Block)                                                                                                           | Mohani Caterers                                      |                                |               | K-Block                                |

## STUDENTS' ASSOCIATIONS

The students' associations of the institute are the pivot around which the co-curricular and extra-curricular activities revolve and play a significant role in the development of the student life. They serve as an important adjunct to the course work. Students' associations are responsible to host numerous and variety of activities including expert lectures of eminent professional, debate and elocution competitions, general knowledge quizzes, essay competitions, sports, music, social to stimulate student interest in the diverse spheres of the life. It provides ample opportunities for the students to develop their well-rounded personality. This encourages emotional integration amongst the students to a very great extent.

The main objectives of the students' associations are as follows:

- To promote disciplined corporate, intellectual, civic and cultural life amongst the students.
- To foster activities to bring out the creative talents of the students.
- To promote the study (including discussion) of subjects of national and international importance.
- To encourage amongst students, the awareness of the responsibilities of an individual in a democratic society.
- To promote social service activities.
- To know the latest technological developments.

**The following associations are actively functioning on the campus of the institute.**

|       |                                                                 |
|-------|-----------------------------------------------------------------|
| MESA  | : Mechanical Engineering Students Association                   |
| CHESA | : Chemical Engineering Students Association                     |
| OrCES | : Organization of Civil Engineering Students                    |
| ECO   | : Electronics & Communication Students Association              |
| EESA  | : Electrical Engineering Students Association                   |
| ISA   | : The International Society for Automation                      |
| IEEE  | : International Society of Electrical & Electronics Engineering |
| ACES  | : Association of Computer Engineering Students                  |
| AMS   | : Association of MCA Students                                   |
| CSI   | : Computer Society of India, Students Chapter, Ahmedabad        |
| ISTE  | : Indian Society of Technical Education, Student Chapter        |
| SAE   | : Society of Automotive Engineers India, Student Chapter        |

ASHRAE : The American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Western India, Student Chapter

IICChE : Indian Institute of Chemical Engineers, Student Chapter

Students' associations together organizes a flagship annual technical colloquium of national level at the institute and become a host of ignited mind of young engineers participating across the nation.

## LOOKING BEYOND CURRICULUM

### Student Associations

The Institute makes all possible efforts for all round development of each and every student by way of extra-curricular as well as co-curricular activities. To arrange such activities, there are many student forums. These branch wise student associations are formed to serve as the pivots, around which the diverse activities revolve and play a significant role in the development of the students. Throughout the year, these associations arrange many activities like expert lectures by eminent speakers, different competitions, debates, quiz, etc. Students also organize blood donation camps, "CRY" card sale, Thalassaemia awareness programmes, etc. The institute also encourages students of different departments to organize national / state level technical festivals. The main aims and objectives of the student associations are as follows:

- To promote disciplined intellectual, professional and cultural life amongst the students.
- To foster activities to bring out the creative talents of the students and to promote the study (including discussion) of subjects of national and international importance.
- To encourage amongst students, awareness of the responsibilities of an individual in a democratic society.
- To promote social service activities and to know the latest developments.

**The following associations are presently functioning:-**

| Student Associations                                        | Faculty Coordinator/s                                                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>ACES</b><br>Association of Computer Engineering Students | Dr. Vipul Chudasama<br>(vipul.chudasama@nirmauni.ac.in)                                                       |
| <b>AMS</b><br>Association of MCA Students                   | Dr. Deepika Shukla<br>(deepika.shukla@nirmauni.ac.in)                                                         |
| <b>ChESA</b><br>Chemical Engineering Student Association    | Dr Ankur Dwivedi<br>(ankur.dwivedi@nirmauni.ac.in)                                                            |
| <b>CSI</b><br>Computer Society of India                     | Dr. Tejal Upadhyay<br>(tejal.upadhyay@nirmauni.ac.in)                                                         |
| <b>ECO</b><br>Electronics & Communications Organization     | Dr. Akash Mecwan<br>(akash.mecwan@nirmauni.ac.in),<br>Dr. Hardik Joshi (hardik.joshi@nirmauni.ac.in)          |
| <b>EESA</b><br>Electrical Engineering Students' Association | Dr. Chintan Mehta (chintan.mehta@nirmauni.ac.in),<br>Dr. Amar Kumar Barik<br>(amarkumar.barik@nirmauni.ac.in) |

|                                                                                                         |                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CodeAdda Club</b>                                                                                    | Dr. Ankit Thakkar (ankit.thakkar@niramuni.ac.in)                                                                                                                 |
| <b>IEEE-Student Branch (SB) (Overall)</b><br><b>Institute of Electrical and Electronics Engineering</b> | Dr. Manisha Shah<br>(manisha.shah@nirmauni.ac.in)                                                                                                                |
| <b>IEEE-Computer Society (CS)</b>                                                                       | Dr. Umesh Bodkhe<br>(umesh.bodkhe@nirmauni.ac.in)                                                                                                                |
| <b>IEEE- Signal Processing Society (SP)</b>                                                             | Dr. Sapan H. Mankad<br>(sapanmankad@nirmauni.ac.in)                                                                                                              |
| <b>IEEE- Intelligent Transport Systems Society (ITSS)</b>                                               | Dr. Jitendra Bhatia<br>(Jitendra.bhatia@nirmauni.ac.in)                                                                                                          |
| <b>IEEE Special Interest Group on Humanitarian Technology (SIGHT)</b>                                   | Dr. Aparna Kumari<br>(aparna.kumari@nirmauni.ac.in)                                                                                                              |
| <b>ISA (The International Society of Automation) STUDENTS' CHAPTER</b>                                  | Dr. Himanshu Patel (hkpatel@nirmauni.ac.in)<br>Prof. Sneh Soni (sneh.soni@nirmauni.ac.in)                                                                        |
| <b>IIChE Student Chapter</b> (Indian Institute of Chemical Engineers Student Chapter)                   | Dr Ankur Dwivedi<br>(ankur.dwivedi@nirmauni.ac.in)                                                                                                               |
| <b>ISTE (Faculty Chapter)</b> Indian Society for Technical Education                                    | For SoT: Dr. Saurin Parikh<br>(saurin.parikh@nirmauni.ac.in)<br>For SoE: Dr. Amit Patel<br>(amit.patel@nirmauni.ac.in)                                           |
| <b>MESA</b><br>Mechanical Engineering Student Association                                               | Prof. Mihir Chauhan (mihir.chauhan@nirmauni.ac.in),<br>Prof. Rudresh Makwana (rudresh.makwana@nirmauni.ac.in)<br>Dr Vishal Mehta (vishal.mehta@nirmauni.ac.in)   |
| <b>OrCES</b><br>Organization of Civil Engineering Students                                              | Prof. Tejas Joshi<br>(tejas.joshi@nirmauni.ac.in)                                                                                                                |
| <b>Society of Automotive Engineers</b><br>(SAE Nirma Collegiate Club)                                   | Prof. Absar Lakadawala<br>(absar.lakadawala@nirmauni.ac.in)<br>Dr Dhaval Shah – (dbshah@nirmauni.ac.in)<br>Prof. Chintan D. Patel (chintan.patel@nirmauni.ac.in) |
| <b>ROBOCON Team</b>                                                                                     | Dr. Mihir Chauhan (mihir.chauhan@nirmauni.ac.in)<br>Prof. Akash Mecwan (akash.mecwan@nirmauni.ac.in)                                                             |

## ROBOCON

**Team Nirma Robocon**, the flagship student robotics team of the Institute of Technology, Nirma University, has established a remarkable legacy of innovation, engineering excellence and competitive robotics. Since its inception in 2002, the team has consistently competed at the national level, earning a reputation for designing, building and deploying high-performance robots through a strong combination of mechanical engineering, electronics, embedded systems, control, automation and programming.

Team Nirma Robocon has continued its legacy of excellence through outstanding performances at both national and international robotics competitions. The team continued its strong national performance in 2025, securing the First Runner-Up position at DD Robocon 2025 at IIT Delhi and receiving a cash prize of ₹30,000. **In 2026, Team Nirma Robocon again demonstrated its competitive strength by reaching the semifinals of DD Robocon 2026, held from 2–5 July 2026. The team defeated GCET in the league stage, achieved an “Absolute Victory – Kung Fu Master” against Team Anonymous, topped the leaderboard at the end of Day 1 with 370 points, and defeated Team Drishti in the quarterfinal. In the semifinal against MIT-WPU, a technical issue prevented the team from advancing to the final. The team was also recognised for the reliable performance of its R2 autonomous robot throughout the competition.**



The team Nirma Robocon is mentored by Dr Mihir Chauhan and Dr Akash Mecwan under the leadership of Dr Rajesh N. Patel, Director, School of Engineering.



## SAE NIRMA COLLEGIATE CLUB

**SAE Nirma Collegiate Club** is a multidisciplinary platform that transforms engineering knowledge into hands-on innovation. Established in 2010, the club brings together students from diverse engineering disciplines to design, develop, manufacture, test and compete with advanced automotive, aerial and aerospace systems. It provides students with an ecosystem to strengthen technical skills, teamwork, leadership, problem-solving and project-management capabilities through real-world engineering challenges.

The club comprises **Team Stallions**, **Team Arrow** and **Team Dyaus**, focusing respectively on high-performance automotive systems, unmanned aerial systems and aerospace/CanSat technologies. Through participation in prestigious national and international competitions, these teams provide students with opportunities to take an engineering concept from design and simulation to fabrication, testing and field deployment.

Team Arrow has established a strong competitive record, with notable achievements including 1st International Rank and World Champion at SUAS 2025, National Champion at Aerothon 2024, 1st National Rank in the Regular Class at DDC 2025, 3rd National Rank in the Micro Class at DDC 2025, 3rd International Rank at SUAS 2024, and 5th Rank in the Mission Score category at SAE Aero Design West 2025.

SAE Nirma Collegiate Club were International Champion at RoboNation-SUAS-2025 in USA. The team competed with prestigious institutions such as University of California - Berkeley, University of California - Irvine, UCSD, North Carolina State University, Virginia Tech, Penn State, McGill University, Istanbul Technical University, King Fahd University for Petroleum and Minerals, and Indian Institutions such as IIT Bombay, IIT Madras and Ramaiah Institute of Technology-Bengaluru. **Also, Team Arrow SAE of Nirma University showcased exceptional technical excellence at the Drone Development Challenge 2026, held in Chennai from 20–22 February 2026, competing against 85 teams from across India. The team secured notable achievements in both competition categories. The Regular Class was awarded Runner-Up in Best Technical Presentation, while the Micro Class secured Second Position Overall, along with a cash prize of ₹45,000.**



## Team Nirma AUV

**Team Nirma AUV**, the underwater robotics team of the Institute of Technology, Nirma University, brings together enthusiastic students from diverse engineering disciplines to design and develop advanced Autonomous and Remotely Operated Underwater Vehicles. Established in 2017, the team promotes innovation in underwater robotics through hands-on design, fabrication, electronics, embedded systems, computer vision, AI and autonomous control.

The team has established a strong national and international presence through competitions such as AMUROVc, SAUVC, RoboFest, NIOT and RoboSub. **In 2026, Team Nirma AUV achieved a remarkable hat-trick of National Championships, winning AMUROVc 4.0 for the third consecutive year. The team also secured Second Prize at SAUVC 2026 in Sanya, China, competing on the global stage and earning a cash award of SGD 1,000. This international competition attracted more than 180 registered teams worldwide, with 50 teams shortlisted for the finals and 31 teams competing at the final venue. Demonstrating exceptional technical expertise, innovation, and teamwork, Team Nirma AUV secured the overall second position.**

With its sustained success, Team Nirma AUV exemplifies interdisciplinary engineering, innovation, precision and problem-solving, while advancing Nirma University's vision of developing technologies for challenging underwater environments.



## STUDENTS' WELFARE BOARD

Nirma University places strong emphasis on the holistic development of students. In alignment with this vision, the Students' Welfare Board (SWB) at the University level and the Students' Activities Committees at the Institute level have been constituted in accordance with the University Constitution. These bodies are dedicated to fostering student engagement in diverse co-curricular activities, including Sports, Cultural, NSS/Extension, NCC, and Adventure programmes. The SWB in coordination with institute committees provides a platform for students to explore and exhibit their talents, contribute to vibrant campus life, and participate in inter-institutional, inter-university, zonal, national, and international events alongside their academic pursuits.

### Students' Welfare Board at the University level

1. Director General – Chairman
2. Executive Registrar
3. All Heads of Institutions
4. One Head of Department/Professor (to be nominated by the respective Head of Institution, preferably one with keen interest in student activities)
5. Chief Coordinator, Student Welfare Activities
6. Coordinator, Student Welfare Activities

### Functions

- i. To prescribe and provide norms and guidelines for conducting different students activities in the institutions and at the university level.
- ii. Encourage students' activities in different areas and provide facilities for the same.
- iii. Make recommendations to the Finance Committee and the Board of Governors for creating infrastructure for such activities on the campus.
- iv. To approve the calendar of activities received from the institution committees.
- v. To approve the budget estimates received from the institution committees.

### Students' Activities Committees at the Institution-level

| No | Category                                                                          | Designation      |
|----|-----------------------------------------------------------------------------------|------------------|
| 1. | Head of the Institution                                                           | Chairman         |
| 2. | All Heads of Departments/Area Chairs/Programme Chairs                             | Member           |
| 3. | Chief Coordinator, Student Welfare Activities, NU                                 | Member           |
| 4. | Up to 5 student representatives (UG/PG), nominated by the Head of the Institution | Member           |
| 5. | Coordinator, Students' Activities                                                 | Member Secretary |

## Functions

- i. To prepare a calendar of activities to be conducted at the Institute-level and submit the same to the Students' Welfare Board.
- ii. To prepare budget estimates required for approval of Students' Welfare Board.
- iii. Monitoring the observance of rules and regulations prescribed for conducting activities.
- iv. Maintaining discipline during conduct of activities.
- v. To decide the organisation for conduct of such activities.

## Key Areas of Activity

The SWB actively promotes holistic student development through a diverse range of programmes in Cultural, Sports, NSS/Extension, NCC, and Adventure domains. University-level cultural events include NUZEAL – the annual cultural fest, NU-Ratri(Raas Garba), One Act Play, DESHRAAG (Patriotic Song Competition), Debate Competition, Photography & Short Film Competitions, and celebration of national and international days such as Independence Day, Republic Day, Constitution Day, International Yoga Day, World Environment Day and National Science Day. Sports & Games are integral to student life, with inter-institute (university-level) tournaments in Cricket, Volleyball, Basketball, Football, Kho-Kho, Kabaddi, Tug of War, Table Tennis, Badminton, Lawn Tennis, Carrom, and Chess. The flagship Nirma Cup, an inter-university championship, promotes healthy competition and sportsmanship.

## National Service Scheme (NSS)

The National Service Scheme (NSS), a Government of India initiative under the Ministry of Youth Affairs and Sports, fosters student personality development through community service. At Nirma University, the NSS unit is highly active, with 800 volunteers from all constituent institutes of Nirma University participating in impactful outreach initiatives. Students engage in year-round activities such as blood donation drives, cleanliness drives, tree plantation drives, awareness rallies, street plays, health and dental check-up camps, the Fit India Freedom Run, various awareness campaigns, road safety programme, and women's safety and empowerment programme. Annual seven-days special residential camps are organized by all constituent institutes of Nirma University in their adopted villages including Vijapur, Naj, Chekhalarani, Giramtha, Vautha, Ambliyara, Paliyad and Rampura. These camps provide students with opportunities to actively engage with local communities and contribute to their social development, thereby strengthening the bond between the University and the surrounding communities.

## National Cadet Corps (NCC) - Nirma University

The National Cadet Corps (NCC) is a voluntary organisation that recruits cadets from high schools, colleges, and universities across India. It is a tri-services organisation, comprising the Army, the Navy and the Air Force, engaged in grooming the youth of the country into disciplined and patriotic citizens. The NCC aims at developing character, comradeship, discipline, a secular outlook, the spirit of adventure, and ideals of selfless service amongst young citizens.

Nirma University has both Boys' and Girls' NCC Units, with an authorised strength of 55 cadets each. Every year, cadets are enrolled based on available vacancies. During the three-year training period, eligible cadets are awarded the 'B' Certificate in the second year and the 'C' Certificate in the third year upon successful completion of the respective NCC examinations. The Associate NCC Officer (ANO) for the Boys' Unit is Lt. (Prof) Chanakya Bhatt, and for the Girls' Unit, it is Lt. Sima Kapadiya.

## How to Join NSS or NCC

At the beginning of each academic year, an orientation programme is organised by every Institute for first-year students. During this session, designated coordinators provide an overview of the National Service Scheme (NSS) and the National Cadet Corps (NCC) to help students understand their objectives, activities, and benefits.

- **NSS Enrollment:** Students who are interested in community service and nation-building through voluntary activities can opt for NSS. Enrollment is based purely on the student's interest and is done on a first-come, first-served basis.
- **NCC Enrollment:** Students wishing to join NCC must undergo a selection process, which includes a written test, a physical fitness test, and a personal interaction with the Associate NCC Officers (ANOs).

Note: A student can opt for either NSS or NCC.



Details of proposed university-level events to be organized under the aegis of Students' Welfare Board for the academic year 2026–27

| Sr No | Name of Event                         | Event Date                                                       | Host Institute                       |
|-------|---------------------------------------|------------------------------------------------------------------|--------------------------------------|
| 1     | World Environment Day                 | June 5, 2026                                                     | School of Engineering                |
| 2     | International Day of Yoga             | June 21, 2026                                                    | Student Welfare Office               |
| 3     | DESHRAAG (Patriotic Song Competition) | August 7, 2026                                                   | Institute of Management              |
| 4     | Independence Day Celebration          | August 15, 2026                                                  | Institute of Pharmacy                |
| 5     | Debate Competition                    | August 29, 2026                                                  | Institute of Law                     |
| 6     | Sports Meet                           | Aug-2026 to Mar-2027                                             | Institute of Design                  |
| 7     | NUरास (Raas Garba)                    | October 23, 2026                                                 | School of Engineering                |
| 8     | Constitution Day Celebration          | November 26, 2026                                                | School of Technology                 |
| 9     | Walkathon                             | December 5, 2026                                                 | Institute of Pharmacy                |
| 10    | Photography & Short Film Comp.        | January 5-25, 2027                                               | School of Technology                 |
| 11    | One Act Play Competition              | January 22, 2027                                                 | Institute of Commerce                |
| 12    | Republic Day Celebration              | January 26, 2027                                                 | Institute of Science                 |
| 13    | NUZEAL – Uni. Cultural Festival       | February 4-6, 2027                                               | Institute of Architecture & Planning |
| 14    | National Science Day                  | February 28, 2027<br>(It may be celebrated on February 26, 2027) | Institute of Science                 |
| 15    | NIRMA CUP - Inter Uni. Sports Fest    | March 1-6, 2027                                                  | Institute of Law                     |

Details of proposed university-level events to be organized under the aegis of Students' Welfare Board for the academic year 2026–27

| Sr. No | Name of activity               | Dates and duration of activity          | Details of activity                                                                                    |
|--------|--------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1      | NSS Residential Camp "UDAY"    | 04th January 2026 to 10th January 2026  | Village Giramtha was adopted and had a residential camp organized under NSS activity Nirma University. |
| 2      | NSS Residential Camp "Anirudh" | 31st December 2025 to 06th January 2026 | Village Miroli was adopted and had a residential camp organized under NSS activity Nirma University.   |



## OTHER ACTIVITIES

### Co-curricular Activities

The Institute also gives equal importance to projects, industrial visits and training alongside academic course work. Seminars, workshops and expert lectures helps students to develop technical knowledge, research aptitude and presentation skills. The students are encouraged to use library resources, e-journals and digital learning platforms to strengthen independent learning. The additional courses on career orientation has been added in the curriculum, so that students are sensitized about their potential and can plan their career. National competitions such as ROBOCON, SAE-BAJA, etc. provide the incentive to work beyond classroom hours in interdisciplinary areas.

### Fresher's Orientation

The Institute organizes a unique orientation programme of five days for the new entrants. Various lectures on Time Management, Coping with stress, Human relations, Positive attitude, Communication skills, etc. are delivered by eminent speakers to the students. The programme enables meaningful interactions between the students and faculties and facilitates a smooth transition from school to professional education system.

### Sports

Nirma University believes in holistic student development, where sporting excellence complements academic and professional growth. The University provides students with opportunities to participate, compete and excel through a vibrant sports ecosystem that promotes fitness, discipline, teamwork, leadership and sportsmanship.

Sports competitions are conducted in two phases—Institute-level competitions followed by Inter-Institute/University-level competitions, providing talented students a platform to progress from campus contests to higher levels of competition. Winners and runners-up are recognised with trophies, medals and certificates.

The sporting calendar encompasses Volleyball, Football, Cricket, Table Tennis, Carrom, Chess, Tug of War and Athletics. Athletics events include 100 m, 400 m, 800 m, 1500 m, 4 × 100 m relay, Long Jump, High Jump, Discus Throw, Shot Put and Javelin Throw.



Through regular competitions and inter-institutional sporting events, Nirma University continues to nurture a culture of healthy competition, participation and excellence, empowering students to perform both on the field and beyond.



## Cultural Festival at Nirma University

Nirma University fosters a vibrant cultural environment that encourages students to explore their creativity, celebrate diversity and develop confidence beyond the classroom. The Cultural Festival provides a dynamic platform for students to showcase their talents, compete with peers and celebrate the richness of Indian and contemporary culture.

The festival is conducted in two phases—Institute-level competitions followed by Inter-Institute/University-level competitions, enabling winners to represent their respective institutes at the university level. Winners and runners-up are felicitated with trophies and certificates in recognition of their talent and achievements.

The diverse range of events includes Drama, Skit, Mime, Group Dance, Solo Dance, Folk Dance, Mono Acting/Mimicry, Singing (Solo, Duet and Group), Debate, Elocution, Cartooning, Photography, Collage Making, Rangoli and other creative expressions.

Through these celebrations, Nirma University continues to nurture artistic talent, cultural awareness, creativity, confidence and teamwork, making campus life a vibrant and enriching experience for every student.

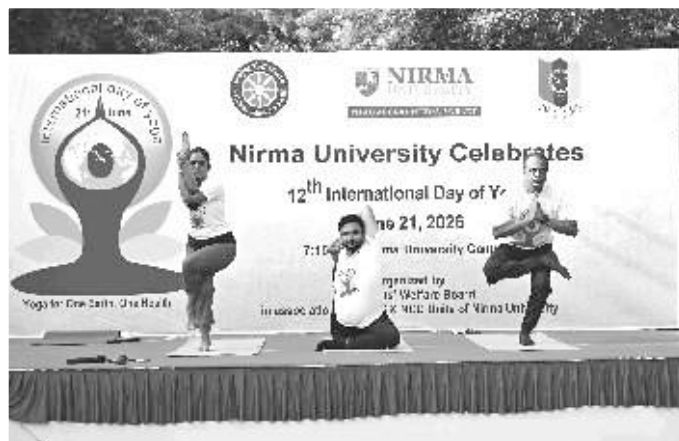
## Celebration of National Days

On the occasion of Independence Day 15th August and on Republic Day 26th January, the University organizes the flag hoisting ceremony at its campus. Renowned dignitaries from the various walks of life are invited as the Chief Guest for the occasion. A patriotic song competition is conducted on this occasion as a mark of respect for our freedom fighters. The University also celebrated HarGharTiranga Yatra every year.



## International Day of Yoga

The United Nations General Assembly declared 21<sup>st</sup> June as International Day of Yoga. To mark the occasion, the Government of India celebrates this day in a befitting manner all over the country. In the same vein, the University celebrates International Day of Yoga in its campus every year. All University officers, teaching and non-teaching staff, perform yoga under a trainer in the morning.



## SCHEMES OF SCHOLARSHIP

The Nirma University provides scholarship to the meritorious students studying in various Institutes under it on the Merit and Merit-cum-Means basis. To encourage the meritorious students and help the meritorious students on the basis of merit –cum-means the University has decided to provide the scholarships as under:

### Scholarship Scheme for the students of BTech programmes

#### Category-I: Full Tuition Fee Waiver:

| Branch <sup>#</sup>                                            | All India Category<br>JEE (Mains) CRL Rank | ACPC<br>Merit Rank |
|----------------------------------------------------------------|--------------------------------------------|--------------------|
| Computer Science and Engineering                               | 1-5500                                     | 1-75               |
| CSE (Artificial Intelligence & Machine Learning Engineering)   | 1-5500                                     | 1-75               |
| Chemical Engineering                                           | 1-20000                                    | 1-200              |
| Civil Engineering                                              | 1-20000                                    | 1-200              |
| Electrical Engineering                                         | 1-20000                                    | 1-200              |
| Electronics and Communication Engineering                      | 1-20000                                    | 1-200              |
| Electronics Engineering<br>(VLSI and Semiconductor Technology) | 1-20000                                    | 1-200              |
| Electronics and Instrumentation Engineering                    | 1-20000                                    | 1-200              |
| Mechanical Engineering                                         | 1-20000                                    | 1-200              |

#### Category-II- Based on Merit:

##### (A) Department-wise merit:

The Scholarship of Rs. 1,00,000/- p.a will be awarded to eligible students on the basis of JEE (Main)/GUJCET score:

| Branch #                                                     | Number of<br>Scholarships through<br>All India Category | Number of<br>Scholarships<br>through ACPC |
|--------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|
| CSE (Artificial Intelligence & Machine Learning Engineering) | Top 02 students                                         | Top 01 student                            |
| Chemical Engineering                                         | Top 02 students                                         | Top 01 student                            |
| Civil Engineering                                            | Top 04 students                                         | Top 02 students                           |

|                                                                |                 |                 |
|----------------------------------------------------------------|-----------------|-----------------|
| Computer Science and Engineering                               | Top 10 students | Top 05 students |
| Electrical Engineering                                         | Top 04 students | Top 02 students |
| Electronics and Communication Engineering                      | Top 06 students | Top 03 students |
| Electronics Engineering<br>(VLSI and Semiconductor Technology) | Top 02 students | Top 01 student  |
| Electronics and Instrumentation Engineering                    | Top 02 students | Top 01 student  |
| Mechanical Engineering                                         | Top 04 students | Top 02 students |
| <b>TOTAL</b>                                                   | <b>36</b>       | <b>18</b>       |

\*\* - For BTech Electronics Engineering (VLSI Design & Semiconductor Technology) Scholarship circular will be shared separately.

### (B) Open Merit: All departments taken together:

The scholarship will be awarded to eligible students on the basis of JEE (Mains)/GUJCET score:

| Details#                                                                       | Amount (Rs./p.a.)   |
|--------------------------------------------------------------------------------|---------------------|
| Top 12 students of All India Category admissions based on merit of JEE (Mains) | Rs. 1,00,000/- each |
| Top 06 Students of ACPC Category admissions based on merit of GUJCET           | Rs. 1,00,000/- each |

### Category-III- Merit-cum-Means:

#### (A) Department-wise merit:

The Scholarship of Rs. 1,00,000/- p.a will be awarded to students on the basis of JEE (Mains)/ GUJCET score whose total annual family income from all sources is up to **Rs. 4 lakh**:

| Branch #                                                     | Number of Scholarships through All India Category | Number of Scholarships through ACPC |
|--------------------------------------------------------------|---------------------------------------------------|-------------------------------------|
| CSE (Artificial Intelligence & Machine Learning Engineering) | Top 02 students                                   | Top 01 student                      |
| Chemical Engineering                                         | Top 02 students                                   | Top 01 student                      |
| Civil Engineering                                            | Top 04 students                                   | Top 02 students                     |
| Computer Science and Engineering                             | Top 10 students                                   | Top 05 students                     |
| Electrical Engineering                                       | Top 04 students                                   | Top 02 students                     |

|                                                                |                 |                 |
|----------------------------------------------------------------|-----------------|-----------------|
| Electronics and Communication Engineering                      | Top 06 students | Top 03 students |
| Electronics Engineering<br>(VLSI and Semiconductor Technology) | Top 02 students | Top 01 student  |
| Electronics and Instrumentation Engineering                    | Top 02 students | Top 01 student  |
| Mechanical Engineering                                         | Top 04 students | Top 02 students |
| <b>TOTAL</b>                                                   | <b>36</b>       | <b>18</b>       |

\*\* - For BTech Electronics Engineering (VLSI Design & Semiconductor Technology) Scholarship circular will be shared separately.

### (B) Open Merit: All departments taken together\*:

The Scholarship of Rs. 50,000/- p.a will be awarded to students on the basis of JEE (Mains)/ GUJCET score whose total annual family income from all sources is up to **Rs. 8 lakh**:

| Details                                                               | Amount (Rs./p.a.)  |
|-----------------------------------------------------------------------|--------------------|
| 43 Top students of All India Category admissions based on JEE (Mains) | Rs. 50,000/- each* |
| 17 Top students of ACPC Category admissions based on GUJCET           | Rs. 50,000/- each* |

\* The students who are getting 'Mukhyamantri Yuva Swavalamban Yojana' (MYSY) scholarship are not eligible for any other scholarships. Hence, to support such students, the University provides financial support for various expenses such as examination fees, books and stationery, transport fees and more up to a maximum of Rs. 50,000/- per annum.

Important note: The student shall be entitled to get benefit of scholarship under any one of the above mentioned categories subject to fulfillment of eligibility criteria.

### Eligibility criteria for continuation/ renewal of the scholarship

Continuation/Renewal of the Scholarship in the subsequent years will be as per University policy which may differ on a semester/year basis. However, it will be subject to meeting of minimum eligibility criteria, as under:

- During the entire previous year, the conduct of the student should be good
- No acts or omission which results in unlawful behavior, malafide intention maligning the University brand in digital, print, or social media, promoting, supporting or sharing any content which is against the University brand.
- No disciplinary action was initiated/sanctioned against the student under the student handbook or compliance with norms as prescribed by the University.
- The student should maintain merit and get CGPA of 7.0 and above and should have passed all courses of study in the first attempt in the previous year. except the conditions narrated below:

**I. For Core courses:**

at the time of renewing the scholarship for Semester-III, if a student is having 'IF' in only one course of 1st year, then he/she should be provided 50% scholarship for Semester-III. Further, if the student clears all the courses including backlog at the end of Semester-III, then the scholarship of Semester-IV will be given along with the arrears of Semester-III

**II. For Value Added (supplementary) courses:**

while renewing the scholarship, the following relaxation will be given:

**a. For 5-year Integrated programme:**

at the time of renewing the scholarship in the beginning of next semester, if a student is having 'IF' in only one supplementary course, then he/she shall be provided the scholarship. However, the same will be considered only for 3 times during the entire duration of programme.

**b. For 3 or 4-year U.G. programme:**

at the time of renewing the scholarship in the beginning of next semester, if a student is having 'IF' in only one supplementary course, then he/she shall be provided the scholarship. However, the same will be considered only for 2 times during the entire duration of programme.

6. The student is not caught in unfair means in any of the examinations conducted either by the Institute or University.
7. The student should maintain minimum attendance criteria except the absence with genuine reasons for which the permission of the HoI was obtained particularly in the case of illness.
8. The Supplementary Examination (SPE) will be considered as the first attempt for the purpose of renewal of scholarship for the students who were unable to appear in the SEE due to:
9. Personal medical emergency in case of self-hospitalization: complete physical immobility subject to submission of a valid medical certificate issued by a registered medical practitioner (M.D. or equivalent) and duly endorsed by concerned nursing home/hospital along with the bills of medicines and nursing home/hospital expenses, or
10. Untoward incident with immediate family member: in case of death of immediate family member (parent or sibling only) and proof of subsequent approval of leave from the concerned Head of the Institute, or
11. Participation in any academic/sport/cultural activity: on behalf of Institute concerned or Nirma University, with the prior approval of the concerned Head of the Institute.

It will be the responsibility of the applicant to check the eligibility before submitting application. In case the applicant is found non-eligible at any stage, his/her submission or scholarship will be disqualified

The students admitted under Non-Resident Indian (NRI)/NRI- Sponsored or Persons of Indian Origin (PIO), Foreign Nationals (FN) or Children of Indian Workers in Gulf Countries (CIWGC) categories are not be eligible for the scholarships.

The President will have power to make any exception in the above rules framed. However, in case of doubt, if any, in interpretation of any clause, the decision of the President will be final.

## Financial Assistance

### Interest Free Loan Scholarship (IFLS)

The Nirma University offers financial assistance, by way of loan, to the needy students of the Institute of Technology. The main purpose of this service is to help the needy meritorious students.

12. Assistance of 100 % interest subsidy on the loan, limited to the amount of tuition fees, obtained from the scheduled bank to a maximum of 5% of the total intake of students, and to the students whose family income does not exceed Rs.3.00 lacs per annum.
13. Assistance of 50% interest subsidy on the loan, limited to the amount of tuition fees, obtained from the schedule bank to a maximum of 5% of the total intake of students, and to the students whose family income does not exceed Rs.5.00 lacs per annum.

### Book Bank Service

The Library Resource Center also provides book bank facility to the students of Institute of Technology. The main purpose of this service is to help the needy meritorious students.



## AWARD OF NERF MEDALS

### NIRMA UNIVERSITY GOLD MEDALS

Nirma University Instituted award of Gold Medals to be awarded for the overall and discipline-wise scholastic performance by the students of different institutions under the University. This medal is awarded for his/her overall scholarship performance in a particular degree by the student and it is awarded during the Convocation held by the University every year. The norms for the same are furnished below:

1. One Gold Medal for each Bachelor's Programme in Technology (BTech) being run under the Faculty of Technology & Engineering will be awarded to the student who secures 1st position amongst all the students of the respective programme.
2. One Gold Medal for the entire Bachelor's Programmes (BTech) taken together will be awarded to a student who secures 1st position amongst all the programmes taken together. (only applicable for B Tech First Year Students)

The overall PGPA earned at the end of Final Year of programme will be considered.

### Norms for award of medals:

1. Pass and Earn all the Credits of all the courses of all the Semesters including supplementary and prerequisite courses of the programme with first attempt within stipulated time of the programme
2. Securing highest PGPA (with minimum PGPA 5.00)
3. No punitive action of any kind is taken against the students for using unfair means at any examination (except warning) or any indiscipline behavior amounting to the major penalty.
4. Minimum Five Pass out students in a programme will be required for consideration of award of medal.

### AWARD OF NERF (Nirma Education and Research Foundation) MEDALS

Every year, NERF medals are awarded to the students of different Institute for their scholastic performance. These medals are awarded to the student who perform well in both the semesters in a year and reached the top position. To achieve these medals, the students are required to meet certain norms as prescribed by the University which is subject to amendment by the competent authority from time to time. In addition to this, students are also recognized with awards and certificates for their skills in curricular, co-curricular and extra-curricular activities. These medals and certificates are normally given during the Foundation Day Celebrations of the Institute.

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# **3.**

# **Teaching and Examination Scheme of BTech Programme Semester I, II**

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**As per NEP 2020**

## TEACHING AND EXAMINATION SCHEME

### Group wise Distribution of branches and TES of B.Tech. FY [A.Y. 2026-27 onwards]

| Sr. No. | Group I Division | Group I Branches | Group II Division | Group II Branches |
|---------|------------------|------------------|-------------------|-------------------|
| 1       | A                | CSE              | K                 | CSE-Int. MBA      |
| 2       | B                | CSE              | L                 | CSE-Int. MBA      |
| 3       | C                | CSE              | M                 | CL                |
| 4       | D                | CSE              | N                 | CL                |
| 5       | E                | AIML             | O                 | EE                |
| 6       | F                | EC               | P                 | EE                |
| 7       | G                | EC               | Q                 | ME                |
| 8       | H                | EC               | R                 | ME                |
| 9       | I-EC-ST          | EVS              | S                 | ME-Int. MBA       |
| 10      | J                | EI               | T                 | CH                |

### B. TECH. SEMESTER – I /II

(to be made effective for student admitted in 2026-27)

| Sr. No. | Course Code | Course Name                         | Teaching Scheme |    |    |     |     |        | Examination Scheme |                     |      |     |
|---------|-------------|-------------------------------------|-----------------|----|----|-----|-----|--------|--------------------|---------------------|------|-----|
|         |             |                                     | L               | T  | P  | OLA | TH  | Credit | Duration in Hours  | Component Weightage |      |     |
|         |             |                                     |                 |    |    |     |     |        |                    | SEE                 | CE   | LPW |
| 1       | 1MH101CC26  | Mathematics I\$                     | 30              | 15 | -  | 45  | 90  | 3      | 3                  | 0.5                 | -    | 0.5 |
| 2       | 1SP201CC26  | Physics                             | 30              | -  | 30 | 30  | 90  | 3      | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | 1CL501CC26  | Environmental Science               | 30              | 15 | -  | 45  | 90  | 3      | 3                  | 0.5                 | -    | 0.5 |
| 4       | 1CS501CC26  | Computer Programming \$             | 30              | -  | 30 | 30  | 90  | 3      | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | 1EE801CC26  | Electrical Science                  | 30              | -  | 30 | 30  | 90  | 3      | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | 1HS101CC26  | General English                     | 30              | -  | 30 | 30  | 90  | 3      | 3                  | 0.25                | 0.25 | 0.5 |
| 7       | 1FT801CC26  | Introduction to Disaster Management | 15              | -  | -  | 15  | 30  | 1      | -                  | 1.0                 | -    | -   |
|         |             | Total                               |                 |    |    |     | 570 | 19     |                    |                     |      |     |

A supplementary course on 'Yoga' to be offered to Group I Students

\$ Course to be offered to all the students in semester I

Note:

[1] Looking to the strength of B.Tech. FY, students will be divided in 02 groups.

[2] A supplementary course on 'Yoga' [30 Hrs] will be offered group wise in any one semester.

[3] Number of divisions per group and branch per division will be decided by the Dean, Faculty of Technology and Engineering before the commencement of academic year.

## B. TECH. SEMESTER – II / I

| Sr. No. | Course Code                | Course Name                                 | Teaching Scheme |    |    |     |            |           | Examination Scheme |                     |      |     |
|---------|----------------------------|---------------------------------------------|-----------------|----|----|-----|------------|-----------|--------------------|---------------------|------|-----|
|         |                            |                                             | L               | T  | P  | OLA | TH         | Credit    | Duration in Hours  | Component Weightage |      |     |
|         |                            |                                             |                 |    |    |     |            |           | SEE                | CE                  | LPW  | SEE |
| 1       | 1MH201CC26                 | Mathematics II#                             | 30              | 15 | -  | 45  | 90         | 3         | 3                  | 0.5                 | -    | 0.5 |
| 2       | 1SP101CC26/<br>1CS201CC26* | Chemistry/ Introduction to Web programming* | 30              | -  | 30 | 30  | 90         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | 1ME801CC26                 | Engineering Drawing & Workshop              | 15              | -  | 60 | 15  | 90         | 3         | -                  | 0.5                 | 0.5  | -   |
| 4       | 1HS102CC26                 | Written Communication                       | 30              | 15 | -  | 45  | 90         | 3         | 3                  | 0.5                 | -    | 0.5 |
| 5       | 1CS101CC26                 | Introduction to AI&ML#                      | 30              | -  | 30 | 30  | 90         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | 1MH301CC26                 | Statistics                                  | 30              | -  | 30 | 30  | 90         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 7       | 1MU801CC26                 | Contemporary India                          | 30              | 15 | -  | 45  | 90         | 3         | 3                  | 0.5                 | -    | 0.5 |
|         |                            | <b>Total</b>                                |                 |    |    |     | <b>630</b> | <b>21</b> |                    |                     |      |     |

\*Applicable to CSE, AI-ML and CSE with integrated MBA branches

# Course to be offered to all the students in semester II

Note:

[1] Looking to the strength of B.Tech. FY, students will be divided in 02 groups.

[2] A supplementary course on 'Yoga' [30 Hrs] will be offered group wise in any one semester.

[3] Number of divisions per group and branch per division will be decided by the Dean, Faculty of Technology and Engineering before the commencement of academic year.

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# **4.**

# **Teaching and Examination Scheme of BTech Programme Semester III-VIII**

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**As per NEP 2020**

# Teaching & Examination Scheme

## Bachelor of Technology

### BTech CSE (Artificial Intelligence & Machine Learning)

#### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr. No.      | Course Name                                   | Teaching Scheme (hours/week) |          |          |           | Examination Scheme |                     |      |     |
|--------------|-----------------------------------------------|------------------------------|----------|----------|-----------|--------------------|---------------------|------|-----|
|              |                                               | L                            | T        | P        | C         | Duration Hours     | Component Weightage |      |     |
|              |                                               |                              |          |          |           | SEE                | CE                  | LPW  | SEE |
| 1            | Data Structures                               | 2                            | -        | 2        | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 2            | Object Oriented Programming                   | 2                            | -        | 2        | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 3            | Digital Electronics                           | 2                            | -        | 2        | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 4            | Mathematical Foundations for Computer Science | 2                            | 1        | -        | 3         | 3                  | 0.5                 | -    | 0.5 |
| 5            | Economics                                     | 2                            | 1        | -        | 3         | 3                  | 0.5                 | -    | 0.5 |
| 6            | Indian Constitution and Citizenship           | 2                            | 1        | -        | 3         | 3                  | 0.5                 | -    | 0.5 |
| <b>Total</b> |                                               | <b>12</b>                    | <b>3</b> | <b>6</b> | <b>18</b> |                    |                     |      |     |
| 7            | Internship-Community Services                 | -                            | -        | -        | 3         | -                  | 1.0                 | -    | -   |
| 8            | Campus to Corporate-I                         | 1                            | -        | -        | -         |                    |                     |      |     |

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr.<br>No. | Course<br>Name                    | Teaching Scheme<br>(hours/week) |           |          |           | Examination Scheme |                        |      |     |
|------------|-----------------------------------|---------------------------------|-----------|----------|-----------|--------------------|------------------------|------|-----|
|            |                                   | L                               | T         | P        | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                   |                                 |           |          |           | SEE                | CE                     | LPW  | SEE |
| 1          | Computer Architecture             | 2                               | 1         | -        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 2          | Database Management Systems       | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Operating Systems                 | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Machine Learning                  | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 5          | Design and Analysis of Algorithms | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 6          | Organisational Behavior           | 2                               | 1         | -        | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                      | <b>12</b>                       | <b>02</b> | <b>8</b> | <b>18</b> |                    |                        |      |     |

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                         | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|-------------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                     | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                     |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | Data Communication and Networking   | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Deep Learning                       | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Artificial Intelligence             | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Computational Mathematics for AI&ML | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Big Data Systems                    | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I               | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                     | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                     | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                     | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                               | -                            | - | - | 24 |                    |                     |      |     |

**Department Elective-I**

| No | Course Title                                 | L | T | P | C |
|----|----------------------------------------------|---|---|---|---|
| 1  | Advanced Java                                | 3 | 0 | 2 | 4 |
| 2  | Contemporary Programming                     | 3 | 0 | 2 | 4 |
| 3  | Embedded Systems                             | 3 | 0 | 2 | 4 |
| 4  | Ethical Hacking and Vulnerability Assessment | 3 | 0 | 2 | 4 |
| 5  | Full Stack Development                       | 3 | 0 | 2 | 4 |
| 6  | Introduction to Game Development             | 3 | 0 | 2 | 4 |
| 7  | Mobile Application Development               | 3 | 0 | 2 | 4 |
| 8  | Open Source Technologies                     | 3 | 0 | 2 | 4 |
| 9  | UI-UX Design                                 | 3 | 0 | 2 | 4 |
| 10 | <b>NPTEL/SWAYAM Courses*</b>                 | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt for in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Natural Language Computing        | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Software Engineering              | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | MLOps                             | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar* | 2                            | 0 | 0 | -         | -                  | -                   | -    | -   |
| 5       | Department Elective-II            | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                   | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> |                    |                     |      |     |
| 7       | Summer Internship**               | -                            | - | - | 6         | -                  | -                   | -    | -   |
| 8       | Campus to Corporate-II            | 1                            | - | - | -         |                    |                     |      |     |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in the summer break between Semester VI and VII

**Department Elective-II**

| No | Course Title                  | L | T | P | C |
|----|-------------------------------|---|---|---|---|
| 1  | Generative AI                 | 3 | 0 | 2 | 4 |
| 2  | Soft Computing                | 3 | 0 | 2 | 4 |
| 3  | Cloud Computing               | 3 | 0 | 2 | 4 |
| 4  | Advanced Data Structures      | 3 | 0 | 2 | 4 |
| 5  | Augmented and Virtual Reality | 3 | 0 | 2 | 4 |
| 6  | Graph Theory                  | 3 | 0 | 2 | 4 |
| 7  | Human-Computer Interface      | 3 | 0 | 2 | 4 |
| 8  | Internet of Things            | 3 | 0 | 2 | 4 |
| 9  | Robotics and Automation       | 3 | 0 | 2 | 4 |
| 10 | Wireless Networks             | 3 | 0 | 2 | 4 |
| 11 | <b>NPTEL/SWAYAM Courses*</b>  | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt for in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**SEMESTER – VII****w.e.f. A.Y. 2027-28**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | Responsible AI                    | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4  | -                  | 0.5                 | 0.5  | -   |
| 3       | Department Elective-III           | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
| 4       | Department Elective-IV            | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective-II                  | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                             | -                            | - | - | 20 |                    |                     |      |     |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of the examination components at the end of semester 7.

**Department Elective-III**

| No | Course Title                         | L | T | P | C |
|----|--------------------------------------|---|---|---|---|
| 1  | Federated Learning                   | 3 | 0 | 2 | 4 |
| 2  | Graph Neural Networks                | 3 | 0 | 2 | 4 |
| 3  | Securing AI Models                   | 3 | 0 | 2 | 4 |
| 4  | AI for Edge Computing & Applications | 3 | 0 | 2 | 4 |
| 5  | Principles of Compiler Design        | 3 | 0 | 2 | 4 |
| 6  | Blockchain Technology                | 3 | 0 | 2 | 4 |
| 7  | Social and Multimedia Analytics      | 3 | 0 | 2 | 4 |
| 8  | Programming for Modern Databases     | 3 | 0 | 2 | 4 |
| 9  | High Performance Computing           | 3 | 0 | 2 | 4 |
| 10 | Reinforcement Learning               | 3 | 0 | 2 | 4 |
| 11 | <b>NPTEL/SWAYAM Courses *</b>        | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt for in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**Department Elective-IV**

| No | Course Title                      | L | T | P | C |
|----|-----------------------------------|---|---|---|---|
| 1  | Remote Sensing Data and Analytics | 3 | 0 | 2 | 4 |
| 2  | Computational Medicine            | 3 | 0 | 2 | 4 |
| 3  | Video Analytics                   | 3 | 0 | 2 | 4 |
| 4  | Predictive Analytics              | 3 | 0 | 2 | 4 |
| 5  | Systems Design                    | 3 | 0 | 2 | 4 |
| 6  | Econometrics                      | 3 | 0 | 2 | 4 |
| 7  | Advanced Machine Learning         | 3 | 0 | 2 | 4 |
| 8  | Machine Vision                    | 3 | 0 | 2 | 4 |
| 9  | Financial Data Analysis           | 3 | 0 | 2 | 4 |
| 10 | <b>NPTEL/SWAYAM Courses *</b>     | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt for in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**SEMESTER – VIII****w.e.f. A.Y. 2027-28**

| Sr.<br>No. | Course<br>Name               | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|------------|------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|            |                              | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|            |                              |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1          | Internship/ Research Project | -                               | - | - | 12 | -                  | -                      | 1.0 | -   |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

## Teaching & Examination Scheme Bachelor of Technology (Chemical Engineering)

### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                       | Teaching Scheme<br>(hours/week) |           |           |           | Examination Scheme |                        |      |     |
|------------|--------------------------------------|---------------------------------|-----------|-----------|-----------|--------------------|------------------------|------|-----|
|            |                                      | L                               | T         | P         | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                      |                                 |           |           |           | SEE                | CE                     | LPW  | SEE |
| 1          | Heat Transfer Operations             | 2                               | -         | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 2          | Solid Fluid Operations               | 2                               | -         | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Fluid Flow Operations                | 2                               | -         | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Mathematics for Chemical Engineering | 2                               | 1         | -         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 5          | Organizational Behaviour             | 2                               | 1         | -         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 6          | Process Calculations                 | 2                               | 1         | -         | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                         | <b>12</b>                       | <b>03</b> | <b>06</b> | <b>18</b> |                    |                        |      |     |
| 7          | Internship-Community Services*       | 0                               | 0         | 6         | 3         | -                  | 1                      | -    | -   |

\* Internship related to community services to be performed during the summer break

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                         | Teaching Scheme (hours/week) |           |           |           | Examination Scheme |                     |      |     |
|---------|-------------------------------------|------------------------------|-----------|-----------|-----------|--------------------|---------------------|------|-----|
|         |                                     | L                            | T         | P         | C         | Duration Hours     | Component Weightage |      |     |
|         |                                     |                              |           |           |           | SEE                | CE                  | LPW  | SEE |
| 1       | Mass Transfer Operations-I          | 2                            | -         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Chemical Process Industries         | 2                            | -         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Organic Chemistry                   | 2                            | -         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Chemical Engineering Thermodynamics | 2                            | 1         | -         | 3         | 3                  | 0.5                 | -    | 0.5 |
| 5       | Economics                           | 2                            | 1         | -         | 3         | 3                  | 0.5                 | -    | 0.5 |
| 6       | Indian Constitution and Citizenship | 2                            | 1         | -         | 3         | 3                  | 0.5                 | -    | 0.5 |
|         | <b>Total</b>                        | <b>12</b>                    | <b>03</b> | <b>06</b> | <b>18</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate – I             | 1                            | -         | -         | -         | -                  | 1                   | -    | -   |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                         | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-------------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                     | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                     |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Mass Transfer Operations – II       | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Instrumentation and Process Control | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Chemical Reaction Engineering – I   | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Petroleum Refining Engineering      | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Modelling & Process Simulations     | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Dept. Elective – I                  | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                     | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                     | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                        | -                            | - | - | <b>24</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate – II            | 1                            | - | - | -         | -                  | 1                   | -    | -   |

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                                           | Teaching Scheme (hours/week) |   |   |   | Examination Scheme |                     |      |     |
|---------|-------------------------------------------------------|------------------------------|---|---|---|--------------------|---------------------|------|-----|
|         |                                                       | L                            | T | P | C | Duration Hours     | Component Weightage |      |     |
|         |                                                       |                              |   |   |   | SEE                | CE                  | LPW  | SEE |
| 1       | Chemical Reaction Engineering – II                    | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Process Equipment Design                              | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Environmental Pollution Control and Safety Management | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar*                     | 2                            | 0 | 0 | - | -                  | -                   | -    | -   |
| 5       | Department Elective – II                              | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
| 6       | Open Elective – I Emerging Area, Department Specific) | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                                       | 3                            | 0 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                                       | 2                            | 1 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                                       | -                            | - | - |   |                    | -                   | 20   | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII

L: Lectures, P/T: Practicals / Tutorial, C: Credits

SEE: Semester End Examination

LPW/PW: Laboratory / Project Work

CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                                   | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                               | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                               |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Plant Design Economics and Process Management | 3                            | 1 | - | 4         | 3                  | 0.5                 | -    | 0.5 |
| 2       | Research Methodology and Seminar*             | 0                            | 0 | 4 | 4         | -                  | 0.5                 | 0.5  | -   |
| 3       | Department Elective – III                     | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                               | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                               | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 4       | Open Elective – II                            | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                               | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                               | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective - III                           | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                               | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                               | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                                  | -                            | - | - | <b>20</b> | -                  | -                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

## Teaching & Examination Scheme Bachelor of Technology (Civil Engineering)

### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                                     | Teaching Scheme<br>(hours/week) |          |           |           | Examination Scheme |                        |      |     |
|------------|----------------------------------------------------|---------------------------------|----------|-----------|-----------|--------------------|------------------------|------|-----|
|            |                                                    | L                               | T        | P         | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                                    |                                 |          |           |           | SEE                | CE                     | LPW  | SEE |
| 1          | Mechanics of Solids                                | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 2          | Surveying                                          | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Construction Materials                             | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Mathematics for Civil Engineers                    | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 5          | Civil Engineering Drawing<br>and Building Planning | 1                               | 0        | 4         | 3         | -                  | -                      | 1    | -   |
| 6          | Organizational Behaviour                           | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                                       | <b>11</b>                       | <b>1</b> | <b>12</b> | <b>18</b> |                    |                        |      |     |
| 7          | Internship-Community Services*                     | 0                               | 0        | 6         | 3         | -                  | 1                      | -    | -   |

\* Internship related to community services to be performed during the summer break

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                                            | Teaching Scheme (hours/week) |           |           |           | Examination Scheme |                     |      |     |
|---------|--------------------------------------------------------|------------------------------|-----------|-----------|-----------|--------------------|---------------------|------|-----|
|         |                                                        | L                            | T         | P         | C         | Duration Hours     | Component Weightage |      |     |
|         |                                                        |                              |           |           |           | SEE                | CE                  | LPW  | SEE |
| 1       | Structural Mechanics                                   | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Construction Technology                                | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Geotechnical Engineering                               | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Fluid Mechanics                                        | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Economics                                              | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -    | 0.5 |
| 6       | Indian Constitution and Citizenship                    | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -    | 0.5 |
|         | <b>Total</b>                                           | <b>12</b>                    | <b>02</b> | <b>08</b> | <b>18</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate-I                                  | 1                            | -         | -         | -         | -                  | 1                   | -    | -   |
| 8       | Testing of Geotextiles for Infrastructure Applications | -                            | -         | 2         | -         | -                  | -                   | 1    | -   |

*L: Lectures, P/T: Practicals / Tutorial, C: Credits*  
*LPW/PW: Laboratory / Project Work*

*SEE: Semester End Examination*  
*CE: Continuous Evaluation*

*w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                   | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                               | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                               |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Design of Concrete Structures | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Water Resources Engineering   | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Environmental Engineering     | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Foundation Engineering        | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Transportation Engineering    | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I         | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                               | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                               | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                  | -                            | - | - | <b>24</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate-II        | 1                            | - | - | -         | -                  | 1                   | -    | -   |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                           | Teaching Scheme (hours/week) |   |   |   | Examination Scheme |                     |      |     |
|---------|---------------------------------------|------------------------------|---|---|---|--------------------|---------------------|------|-----|
|         |                                       | L                            | T | P | C | Duration Hours     | Component Weightage |      |     |
|         |                                       |                              |   |   |   | SEE                | CE                  | LPW  | SEE |
| 1       | Construction Project Management       | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Design of Steel Structures            | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Port, Airport and Railway Engineering | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar*     | 2                            | 0 | 0 | - | -                  | -                   | -    | -   |
| 5       | Department Elective-II                | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                       | 3                            | 0 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                       | 2                            | 1 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                       | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                       | 3                            | 0 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                       | 2                            | 1 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                       | -                            | - | - | - | -                  | -                   | 20   | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Professional Practice             | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4         | -                  | 0.5                 | 0.5  | 0.5 |
| 3       | Department Elective- III          | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 4       | Open Elective-II                  | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective-III                 | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> | -                  | -                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

# Teaching & Examination Scheme

## Bachelor of Technology

### (Computer Science and Engineering)

#### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr. No. | Course Name                                   | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|-----------------------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                               | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                               |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | Data Structures                               | 2                            | - | 2 | 3  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Object Oriented Programming                   | 2                            | - | 2 | 3  | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Digital Electronics                           | 2                            | - | 2 | 3  | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Mathematical Foundations for Computer Science | 2                            | 1 | - | 3  | 3                  | 0.5                 | -    | 0.5 |
| 5       | Economics                                     | 2                            | 1 | - | 3  | 3                  | 0.5                 | -    | 0.5 |
| 6       | Indian Constitution and Citizenship           | 2                            | 1 | - | 3  | 3                  | 0.5                 | -    | 0.5 |
|         | Total                                         | 12                           | 3 | 6 | 18 |                    |                     |      |     |
| 7       | Internship-Community Services                 | -                            | - | - | 3  | -                  | 1.0                 | -    | -   |
| 8       | Campus to Corporate-I                         | 1                            | - | - | -  |                    |                     |      |     |

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr.<br>No. | Course<br>Name              | Teaching Scheme<br>(hours/week) |           |          |           | Examination Scheme |                        |      |     |
|------------|-----------------------------|---------------------------------|-----------|----------|-----------|--------------------|------------------------|------|-----|
|            |                             | L                               | T         | P        | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                             |                                 |           |          |           | SEE                | CE                     | LPW  | SEE |
| 1          | Computer Architecture       | 2                               | 1         | -        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 2          | Database Management Systems | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Operating Systems           | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Java Programming            | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 5          | Data Communication          | 2                               | -         | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 6          | Organisational Behavior     | 2                               | 1         | -        | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                | <b>12</b>                       | <b>02</b> | <b>8</b> | <b>18</b> |                    |                        |      |     |

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | Machine Learning                  | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Computer Networks                 | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Design and Analysis of Algorithms | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Microprocessor and Interfacing    | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Full Stack Development            | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I             | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                             | -                            | - | - | 24 |                    |                     |      |     |

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**Department Elective-I**

| No | Course Title                                 | L | T | P | C |
|----|----------------------------------------------|---|---|---|---|
| 1  | Advanced Computer Architecture               | 3 | 1 | 0 | 4 |
| 2  | Advanced Java                                | 3 | 0 | 2 | 4 |
| 3  | Contemporary Programming                     | 3 | 0 | 2 | 4 |
| 4  | Data Analysis and Visualisation              | 3 | 0 | 2 | 4 |
| 5  | Embedded Systems                             | 3 | 0 | 2 | 4 |
| 6  | Ethical Hacking and Vulnerability Assessment | 3 | 0 | 2 | 4 |
| 7  | Information Theory and Coding                | 3 | 0 | 2 | 4 |
| 8  | Introduction to Game Development             | 3 | 0 | 2 | 4 |
| 9  | Mobile Application Development               | 3 | 0 | 2 | 4 |
| 10 | Open Source Technologies                     | 3 | 0 | 2 | 4 |
| 11 | Optimization Techniques                      | 3 | 1 | 0 | 4 |
| 12 | UI-UX Design                                 | 3 | 0 | 2 | 4 |
| 13 | VLSI Programming                             | 3 | 0 | 2 | 4 |
| 14 | <b>NPTEL/SWAYAM Courses *</b>                | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Cloud Computing                   | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Software Engineering              | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Hardware Programming              | 2                            | 0 | 4 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar* | 2                            | 0 | 0 | -         | -                  | -                   | -    | -   |
| 5       | Department Elective-II            | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                   | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> |                    |                     |      |     |
|         | Summer Internship**               | -                            | - | - | 6         | -                  | -                   | -    | -   |
|         | Campus to Corporate-II            | 1                            | - | - | -         |                    |                     |      |     |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of the examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in the summer break between Semester VI and VII

**Department Elective-II**

| No | Course Title                              | L | T | P | C |
|----|-------------------------------------------|---|---|---|---|
| 1  | Advanced Data Structures                  | 3 | 0 | 2 | 4 |
| 2  | Advances in Programming                   | 3 | 0 | 2 | 4 |
| 3  | Augmented and Virtual Reality             | 3 | 0 | 2 | 4 |
| 4  | Deep Learning                             | 3 | 0 | 2 | 4 |
| 5  | Graph Theory                              | 3 | 0 | 2 | 4 |
| 6  | Human-Computer Interface                  | 3 | 0 | 2 | 4 |
| 7  | Internet of Things                        | 3 | 0 | 2 | 4 |
| 8  | Microservice Architecture and Programming | 3 | 0 | 2 | 4 |
| 9  | Network Security                          | 3 | 0 | 2 | 4 |
| 10 | Quantum Computing                         | 3 | 0 | 2 | 4 |
| 11 | Robotics and Automation                   | 3 | 0 | 2 | 4 |
| 12 | Network Administration and Security       | 3 | 0 | 2 | 4 |
| 13 | Wireless Networks                         | 3 | 0 | 2 | 4 |
| 14 | NPTEL/SWAYAM Courses*                     | - | - | - | 4 |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**Pool of Open Elective-I**

| No | Course Title                   | L | T | P | C |
|----|--------------------------------|---|---|---|---|
| 1  | Data Structures and Algorithms | 3 | 0 | 2 | 4 |
| 2  | Linux Fundamentals             | 2 | 0 | 4 | 4 |
| 3  | Mobile Application Development | 3 | 0 | 2 | 4 |
| 4  | Object Oriented Programming    | 3 | 0 | 2 | 4 |
| 5  | Python Programming             | 3 | 0 | 2 | 4 |
| 6  | Web Technologies               | 3 | 0 | 2 | 4 |

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | Principles of Compiler Design     | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4  | -                  | 0.5                 | 0.5  | -   |
| 3       | Department Elective-III           | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
| 4       | Open Elective - II                | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective - III               | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 0 | 4 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                             | -                            | - | - | 20 |                    |                     |      |     |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

**Department Elective-III**

| <b>No</b> | <b>Course Title</b>                    | <b>L</b> | <b>T</b> | <b>P</b> | <b>C</b> |
|-----------|----------------------------------------|----------|----------|----------|----------|
| 1         | Agile Software Development             | 3        | 0        | 2        | 4        |
| 2         | Analytics of IoT                       | 3        | 0        | 2        | 4        |
| 3         | Big Data Systems                       | 3        | 0        | 2        | 4        |
| 4         | Blockchain Technology                  | 3        | 0        | 2        | 4        |
| 5         | Cloud Native Applications and DevOps   | 3        | 0        | 2        | 4        |
| 6         | High Performance Computing             | 3        | 0        | 2        | 4        |
| 7         | High Speed Networks                    | 3        | 0        | 2        | 4        |
| 8         | MLOps                                  | 3        | 0        | 2        | 4        |
| 9         | Programming for Modern Databases       | 3        | 0        | 2        | 4        |
| 10        | Reinforcement Learning                 | 3        | 0        | 2        | 4        |
| 11        | Social and Multimedia Analytics        | 3        | 0        | 2        | 4        |
| 12        | Software Project Management            | 3        | 1        | 0        | 4        |
| 13        | Software Testing and Quality Assurance | 3        | 0        | 2        | 4        |
| 14        | Web Performance Optimization           | 3        | 0        | 2        | 4        |
| 15        | NPTEL/SWAYAM Courses*                  | -        | -        | -        | 4        |

\* Students will be provided with the choice in the form of a pool of courses to be offered by SWAYAM NPTEL from time to time, which they may opt in place of the department elective as per the guidelines given in notification NU/AC/AC-130325/3(H)25-42 dated 15/04/2025.

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

*L: Lectures, P/T: Practicals / Tutorial, C: Credits**SEE: Semester End Examination**LPW/PW: Laboratory / Project Work**CE: Continuous Evaluation*

# TEACHING & EXAMINATION SCHEME

## Bachelor of Technology

### (Electronics & Communication Engineering)

#### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                                          | Teaching Scheme<br>(hours/week) |          |           |           | Examination Scheme |                        |      |     |
|------------|---------------------------------------------------------|---------------------------------|----------|-----------|-----------|--------------------|------------------------|------|-----|
|            |                                                         | L                               | T        | P         | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                                         |                                 |          |           |           | SEE                | CE                     | LPW  | SEE |
| 1          | Electronic Devices                                      | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 2          | Digital Logic Design                                    | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Network Theory                                          | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 4          | Mathematics for Electronics & Communication Engineering | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 5          | Economics                                               | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 6          | Indian Constitution and Citizenship                     | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                                            | <b>12</b>                       | <b>4</b> | <b>04</b> | <b>18</b> |                    |                        |      |     |
| 7          | Internship-Community Services*                          | 0                               | 0        | 6         | 3         | -                  | 1.0                    | -    | -   |
|            | <b>Total</b>                                            |                                 |          |           | <b>21</b> |                    |                        |      |     |

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name              | Teaching Scheme (hours/week) |           |           |           | Examination Scheme |                     |          |          |
|---------|--------------------------|------------------------------|-----------|-----------|-----------|--------------------|---------------------|----------|----------|
|         |                          | L                            | T         | P         | C         | Duration Hours     | Component Weightage |          |          |
|         |                          |                              |           |           |           | SEE                | CE                  | LPW      | SEE      |
| 1       | Electronics Circuits     | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 2       | Signals and Systems      | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
| 3       | Integrated Electronics   | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 4       | Communication Systems    | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 5       | FPGA based System Design | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 6       | Organizational Behaviour | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
|         | <b>Total</b>             | <b>12</b>                    | <b>02</b> | <b>08</b> | <b>18</b> | <b>-</b>           | <b>-</b>            | <b>-</b> | <b>-</b> |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
Project Work

SEE: Semester End Examination LPW/PW: Laboratory /  
CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                        | Teaching Scheme (hours/week) |   |   |    | Examination Scheme |                     |      |     |
|---------|------------------------------------|------------------------------|---|---|----|--------------------|---------------------|------|-----|
|         |                                    | L                            | T | P | C  | Duration Hours     | Component Weightage |      |     |
|         |                                    |                              |   |   |    | SEE                | CE                  | LPW  | SEE |
| 1       | VLSI Design                        | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Digital Communication              | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Electromagnetic & Wave Propagation | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Digital Signal Processing          | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Microcontroller and Interfacing    | 3                            | 0 | 2 | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I              | 3                            | 1 | 0 | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                    | 3                            | 0 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                    | 2                            | 1 | 2 |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                              | -                            | - | - | 24 | -                  | -                   | -    | -   |

*L: Lectures, P/T: Practicals / Tutorial, C: Credits**LPW/PW: Laboratory / Project Work**SEE: Semester End Examination**CE: Continuous Evaluation**w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |           |   | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|-----------|---|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P         | C | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |           |   | SEE                | CE                  | LPW  | SEE |
| 1       | Computer Architecture             | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Embedded Systems                  | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Microwave and Antenna Engineering | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar* | 2                            | 0 | 0         | 0 | -                  | -                   | -    | -   |
| 5       | Department Elective-II            | 3                            | 1 | 0         | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                   | 3                            | 1 | 0         | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2         |   |                    | 0.5                 | 0.25 | 0.5 |
|         |                                   | -                            | - | <b>20</b> | - | -                  | -                   | -    | -   |
| 8       | Campus to Corporate-II            | 1                            | - | -         | - | -                  | 1                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Data Communication & Networks     | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4         | -                  | 0.5                 | 0.5  | -   |
| 3       | Department Elective- III          | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 4       | Open Elective-II                  | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective-III                 | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> | -                  | -                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

w.e.f. for first year students admitted in 2026-27 and D to D students admitted in 2025-26 onwards

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

*w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

**Note: For BTech Electronics Engineering (VLSI Design & Semiconductor Technology) the TES is under approval, so will be notified separately.**

## Teaching & Examination Scheme Bachelor of Technology (Electrical Engineering)

### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                                      | Teaching Scheme<br>(hours/week) |          |          |           | Examination Scheme |                        |      |     |
|------------|-----------------------------------------------------|---------------------------------|----------|----------|-----------|--------------------|------------------------|------|-----|
|            |                                                     | L                               | T        | P        | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                                     |                                 |          |          |           | SEE                | CE                     | LPW  | SEE |
| 1          | Mathematical Applications in Electrical Engineering | 2                               | 1        | -        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 2          | Analog Electronics                                  | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Digital Electronics                                 | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Electrical Measurements and Transducers             | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 5          | Network Analysis                                    | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 6          | Organisational Behaviour                            | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 7          | Internship - Community Services*                    | 0                               | 0        | 6        | 3         | -                  | 1                      | -    | -   |
|            | <b>Total</b>                                        | <b>12</b>                       | <b>2</b> | <b>8</b> | <b>21</b> |                    |                        |      |     |

\* At the end of the second semester, during summer break, the students are required to undergo a Community Internship.

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                         | Teaching Scheme (hours/week) |           |           |           | Examination Scheme |                     |          |          |
|---------|-------------------------------------|------------------------------|-----------|-----------|-----------|--------------------|---------------------|----------|----------|
|         |                                     | L                            | T         | P         | C         | Duration Hours     | Component Weightage |          |          |
|         |                                     |                              |           |           |           | SEE                | CE                  | LPW      | SEE      |
| 1       | Fundamentals of Power System        | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 2       | Transformers and DC Machines        | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 3       | Microprocessor and Microcontrollers | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 4       | Control System Theory               | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 5       | Economics                           | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
| 6       | Indian Constitution and Citizenship | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
|         | <b>Total</b>                        | <b>12</b>                    | <b>02</b> | <b>08</b> | <b>18</b> | <b>-</b>           | <b>-</b>            | <b>-</b> | <b>-</b> |
| 7       | Supplementary Course                |                              |           |           |           |                    |                     |          |          |
|         | Campus to Corporate-I               | 1                            | -         | -         | -         | -                  | 1                   | -        | -        |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                             | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                         | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                         |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Rotating AC Machines                    | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Electrical Power System Analysis        | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Power Electronics and Applications      | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Power System Protection and Switchgears | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Utilization of Electric Power           | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I                   | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                         | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                         | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                            | -                            | - | - | <b>24</b> | -                  | -                   | -    | -   |
| 7       | Supplementary Course                    |                              |   |   |           |                    |                     |      |     |
|         | Campus to Corporate-II                  | 1                            | - | - | -         | -                  | 1                   | -    | -   |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                        | Teaching Scheme (hours/week) |   |           |   | Examination Scheme |                     |      |     |
|---------|------------------------------------|------------------------------|---|-----------|---|--------------------|---------------------|------|-----|
|         |                                    | L                            | T | P         | C | Duration Hours     | Component Weightage |      |     |
|         |                                    |                              |   |           |   | SEE                | CE                  | LPW  | SEE |
| 1       | Power System Operation and Control | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Electric Drives                    | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Electronic System Design           | 3                            | 0 | 2         | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar*  | 0                            | 0 | 2         | - | -                  | -                   | -    | -   |
| 5       | Department Elective-II             | 3                            | 1 | 0         | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                    | 3                            | 0 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                    | 2                            | 1 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                    | 3                            | 1 | 0         | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                    | 3                            | 0 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                    | 2                            | 1 | 2         |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                    | -                            | - | <b>20</b> | - |                    | -                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII and its evaluation will be done during Sem. VII

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |          |          |           | Examination Scheme |                     |             |            |
|---------|-----------------------------------|------------------------------|----------|----------|-----------|--------------------|---------------------|-------------|------------|
|         |                                   | L                            | T        | P        | C         | Duration Hours     | Component Weightage |             |            |
|         |                                   |                              |          |          |           | SEE                | CE                  | LPW         | SEE        |
| 1       | Electrical Machine Design         | 3                            | 0        | 2        | 4         | 3                  | 0.25                | 0.25        | 0.5        |
| 2       | Research Methodology and Seminar* | 2                            | 0        | 2        | 4         | -                  | 0.5                 | 0.5         | -          |
| 3       | Department Elective- III          | 3                            | 1        | 0        | 4         | 3                  | 0.5                 | -           | 0.5        |
|         |                                   | 3                            | 0        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
|         |                                   | 2                            | 1        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
| 4       | Open Elective-II                  | 3                            | 1        | 0        | 4         | 3                  | 0.5                 | -           | 0.5        |
|         |                                   | 3                            | 0        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
|         |                                   | 2                            | 1        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
| 5       | Open Elective-III                 | 3                            | 1        | 0        | 4         | 3                  | 0.5                 | -           | 0.5        |
|         |                                   | 3                            | 0        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
|         |                                   | 2                            | 1        | 2        |           |                    | 0.25                | 0.25        | 0.5        |
|         | <b>Total</b>                      | <b>3</b>                     | <b>0</b> | <b>2</b> | <b>20</b> | <b>-</b>           | <b>0.25</b>         | <b>0.25</b> | <b>0.5</b> |

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

*w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

## Teaching & Examination Scheme Bachelor of Technology (Electronics and Instrumentation Engineering)

### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                                            | Teaching Scheme<br>(hours/week) |          |          |           | Examination Scheme |                        |      |     |
|------------|-----------------------------------------------------------|---------------------------------|----------|----------|-----------|--------------------|------------------------|------|-----|
|            |                                                           | L                               | T        | P        | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                                           |                                 |          |          |           | SEE                | CE                     | LPW  | SEE |
| 1          | Control Theory                                            | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 2          | Basic Electronics                                         | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Circuit Theory                                            | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Software For Engineers                                    | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 5          | Mathematics for Electronics and Instrumentation Engineers | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 6          | Economics                                                 | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                                              | <b>12</b>                       | <b>2</b> | <b>8</b> | <b>18</b> |                    |                        |      |     |
| 7          | Internship-Community Services*                            | 0                               | 0        | 6        | 3         | -                  | 1                      | -    | -   |
| 8          | Campus to Corporate-I                                     | 1                               | -        | -        | -         | -                  | 1                      | -    | -   |

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                          | Teaching Scheme (hours/week) |           |           |           | Examination Scheme |                     |          |          |
|---------|--------------------------------------|------------------------------|-----------|-----------|-----------|--------------------|---------------------|----------|----------|
|         |                                      | L                            | T         | P         | C         | Duration Hours     | Component Weightage |          |          |
|         |                                      |                              |           |           |           | SEE                | CE                  | LPW      | SEE      |
| 1       | Applied Electronics                  | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 2       | Electronic Circuits                  | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 3       | Microcontroller and its Applications | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 4       | Programmable Logic Controllers       | 2                            | 0         | 2         | 3         | 3                  | 0.25                | 0.25     | 0.5      |
| 5       | Organizational Behaviours            | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
| 6       | Indian Constitution and Citizenship  | 2                            | 1         | 0         | 3         | 3                  | 0.5                 | -        | 0.5      |
|         | <b>Total</b>                         | <b>12</b>                    | <b>02</b> | <b>08</b> | <b>18</b> | <b>-</b>           | <b>-</b>            | <b>-</b> | <b>-</b> |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                           | Teaching Scheme (hours/week) |   |    |    | Examination Scheme |                     |      |     |
|---------|---------------------------------------|------------------------------|---|----|----|--------------------|---------------------|------|-----|
|         |                                       | L                            | T | P  | C  | Duration Hours     | Component Weightage |      |     |
|         |                                       |                              |   |    |    | SEE                | CE                  | LPW  | SEE |
| 1       | Industrial Controls                   | 3                            | 0 | 2  | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Transducers and Measurement           | 3                            | 0 | 2  | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Industrial Drives                     | 3                            | 0 | 2  | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Fundamentals of Robotics              | 3                            | 0 | 2  | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Image Processing and its Applications | 3                            | 0 | 2  | 4  | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I                 | 3                            | 1 | 0  | 4  | 3                  | 0.5                 | -    | 0.5 |
|         |                                       | 3                            | 0 | 2  |    |                    | 0.25                | 0.25 | 0.5 |
|         |                                       | 2                            | 1 | 2  |    |                    | 0.25                | 0.25 | 0.5 |
|         | Total                                 | 18                           | 0 | 12 | 24 | -                  | -                   | -    | -   |

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Industrial Instrumentation        | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Process Automation                | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | AI for Automation                 | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar* | 2                            | 0 | 0 | -         | -                  | -                   | -    | -   |
| 5       | Department Elective-II            | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                   | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | -                            | - | - | <b>20</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate-II            | -                            | - | - | 6         | -                  | 1                   | -    | -   |
|         |                                   | 1                            | - | - | -         |                    | 1                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII

L: Lectures, P/T: Practicals / Tutorial, C: Credits  
LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |      |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|------|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |      |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE  |
| 1       | Embedded System Design            | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5  |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4         | -                  | 0.5                 |      | 0.5- |
| 3       | Department Elective- III          | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5  |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
| 4       | Open Elective-II                  | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5  |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
| 5       | Open Elective-III                 | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5  |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5  |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> | -                  | -                   | -    | -    |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

*w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

## Teaching & Examination Scheme Bachelor of Technology (Mechanical Engineering)

### SEMESTER – III

w.e.f. A.Y. 2026-27

| Sr.<br>No. | Course<br>Name                                    | Teaching Scheme<br>(hours/week) |          |           |           | Examination Scheme |                        |      |     |
|------------|---------------------------------------------------|---------------------------------|----------|-----------|-----------|--------------------|------------------------|------|-----|
|            |                                                   | L                               | T        | P         | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                                   |                                 |          |           |           | SEE                | CE                     | LPW  | SEE |
| 1          | Mechanics of Solids                               | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 2          | Manufacturing Processes-I                         | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Material Science and Engineering                  | 2                               | 0        | 2         | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Mathematics for Mechanical Engineers              | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
| 5          | Industrial Drafting and Machine<br>Element Design | 1                               | 0        | 4         | 3         | -                  | 0.5                    | 0.5  | -   |
| 6          | Organizational Behaviour                          | 2                               | 1        | 0         | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                                      | <b>11</b>                       | <b>2</b> | <b>10</b> | <b>18</b> |                    |                        |      |     |
| 7          | Internship-Community Services*                    | 0                               | 0        | 6         | 3         | -                  | 1                      | -    | -   |

**SEMESTER – IV****w.e.f. A.Y. 2026-27**

| Sr.<br>No. | Course<br>Name                      | Teaching Scheme<br>(hours/week) |          |          |           | Examination Scheme |                        |      |     |
|------------|-------------------------------------|---------------------------------|----------|----------|-----------|--------------------|------------------------|------|-----|
|            |                                     | L                               | T        | P        | C         | Duration<br>Hours  | Component<br>Weightage |      |     |
|            |                                     |                                 |          |          |           | SEE                | CE                     | LPW  | SEE |
| 1          | Theory of Machines                  | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 2          | Manufacturing Processes-II          | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 3          | Metrology and Quality Control       | 2                               | 0        | 2        | 3         | 3                  | 0.25                   | 0.25 | 0.5 |
| 4          | Thermodynamics                      | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 5          | Economics                           | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
| 6          | Indian Constitution and Citizenship | 2                               | 1        | 0        | 3         | 3                  | 0.5                    | -    | 0.5 |
|            | <b>Total</b>                        | <b>12</b>                       | <b>3</b> | <b>6</b> | <b>18</b> | -                  | -                      | -    | -   |
| 7          | Campus to Corporate-I               | 1                               | -        | -        | -         | -                  | 1                      | -    | -   |

L: Lectures, P/T: Practicals / Tutorials, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – V****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                          | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|--------------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                      | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                      |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Dynamics of Machines                 | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Machine Design –I                    | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Fluid Mechanics and Fluid Power      | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Heat and Mass Transfer               | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 5       | Production Technology and Management | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 6       | Department Elective-I                | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                      | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                      | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                         | -                            | - | - | <b>24</b> | -                  | -                   | -    | -   |
| 7       | Campus to Corporate-II               | 1                            | - | - | -         | -                  | 1                   | -    | -   |

L: Lectures, P/T: Practicals / Tutorials, C: Credits  
 LPW/PW: Laboratory / Project Work

SEE: Semester End Examination  
 CE: Continuous Evaluation

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VI****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                              | Teaching Scheme (hours/week) |   |   |   | Examination Scheme |                     |      |     |
|---------|------------------------------------------|------------------------------|---|---|---|--------------------|---------------------|------|-----|
|         |                                          | L                            | T | P | C | Duration Hours     | Component Weightage |      |     |
|         |                                          |                              |   |   |   | SEE                | CE                  | LPW  | SEE |
| 1       | Machine Design-II                        | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Power Plant and Renewable Energy Systems | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 3       | Applied Thermal Engineering              | 3                            | 0 | 2 | 4 | 3                  | 0.25                | 0.25 | 0.5 |
| 4       | Research Methodology and Seminar*        | 2                            | 0 | 0 | - | -                  | -                   | -    | -   |
| 5       | Department Elective-II                   | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                          | 3                            | 0 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                          | 2                            | 1 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
| 6       | Open Elective-I                          | 3                            | 1 | 0 | 4 | 3                  | 0.5                 | -    | 0.5 |
|         |                                          | 3                            | 0 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                          | 2                            | 1 | 2 |   |                    | 0.25                | 0.25 | 0.5 |
|         |                                          | -                            | - | - | - | -                  | -                   | 20   | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

\*\*Compulsory Summer Internship of 6 weeks duration in summer break between Semester VI and VII

**SEMESTER – VII****w.e.f. A.Y. 2026-27**

| Sr. No. | Course Name                       | Teaching Scheme (hours/week) |   |   |           | Examination Scheme |                     |      |     |
|---------|-----------------------------------|------------------------------|---|---|-----------|--------------------|---------------------|------|-----|
|         |                                   | L                            | T | P | C         | Duration Hours     | Component Weightage |      |     |
|         |                                   |                              |   |   |           | SEE                | CE                  | LPW  | SEE |
| 1       | Computer Integrated Manufacturing | 3                            | 0 | 2 | 4         | 3                  | 0.25                | 0.25 | 0.5 |
| 2       | Research Methodology and Seminar* | 0                            | 0 | 4 | 4         | -                  | 0.5                 | 0.5  | -   |
| 3       | Department Elective- III          | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 4       | Open Elective-II                  | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
| 5       | Open Elective-III                 | 3                            | 1 | 0 | 4         | 3                  | 0.5                 | -    | 0.5 |
|         |                                   | 3                            | 0 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         |                                   | 2                            | 1 | 2 |           |                    | 0.25                | 0.25 | 0.5 |
|         | <b>Total</b>                      | -                            | - | - | <b>20</b> | -                  | -                   | -    | -   |

\*The course will be spread over two semesters (semester 6 and semester 7). 4 credits will be awarded on successful completion of examination components at the end of semester 7.

w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards

**SEMESTER – VIII****w.e.f. A.Y. 2026-27**

| Sr.<br>No.                | Course<br>Name                | Teaching Scheme<br>(hours/week) |   |   |    | Examination Scheme |                        |     |     |
|---------------------------|-------------------------------|---------------------------------|---|---|----|--------------------|------------------------|-----|-----|
|                           |                               | L                               | T | P | C  | Duration<br>Hours  | Component<br>Weightage |     |     |
|                           |                               |                                 |   |   |    | SEE                | CE                     | LPW | SEE |
| 1                         | Internship / Research Project | -                               | - | - | 12 | -                  | -                      | 1   | -   |
| <b>Total Credits = 12</b> |                               |                                 |   |   |    |                    |                        |     |     |

*w.e.f. for first year students admitted in 2024-25 and D to D students admitted in 2025-26 onwards*

**\* Note: The Teaching and Examination Scheme of Minor Courses/Open Elective Courses will be notified after approval.**

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# **5. Academic Rules and Regulations**

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## ACADEMIC RULES AND REGULATIONS BTECH

### ACADEMIC REGULATIONS FOR UNDER GRADUATE DEGREE PROGRAMMES (B TECH.) UNDER FACULTY OF TECHNOLOGY AND ENGINEERING

#### SHORT TITLE, APPLICATION AND COMMENCEMENT:

- a) These regulations shall be called as Academic Regulations for B Tech. programmes, under the Faculty of Technology & Engineering.
- b) They shall apply to all students admitted in B Tech. programmes under The Faculty of Technology & Engineering, Nirma University.
- c) They shall come into force from the date of their publication of the notification with the approval of Board of Governors, Nirma University.

#### DEFINITIONS: IN THESE REGULATIONS, UNLESS THE CONTEXT OTHERWISE REQUIRES:

|                  |   |                                                                                                                                                                                                                                                                                                      |
|------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programme        | - | It is an undergraduate degree programme                                                                                                                                                                                                                                                              |
| Course           | - | A constituent subject of the programme                                                                                                                                                                                                                                                               |
| Semester/Term    | - | Duration for studying a course/s i.e. a portion of an academic year. The word "Term" is generally used synonymously with "Semester".                                                                                                                                                                 |
| Registration     | - | Procedure to register a course/s in a semester for the purpose of study or appearance in examination.                                                                                                                                                                                                |
| Letter Grade     | - | A letter associated with a particular performance level of a student in a course. A qualitative meaning and numerical figures are attached to each grade.                                                                                                                                            |
| Credit           | - | A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. On passing a course, a student will earn this "credit". |
| Appeal Committee | - | A Committee consisting of Director, Head of the Department and two senior faculty members nominated by the Director.                                                                                                                                                                                 |

**SHORT FORMS**

|               |   |                                                                                    |
|---------------|---|------------------------------------------------------------------------------------|
| The Institute | - | The Institute of Technology                                                        |
| The Director  | - | The Director, Institute of Technology                                              |
| Faculty       | - | Faculty of Technology & Engineering                                                |
| The Dean      | - | The Dean, Faculty of Technology & Engineering                                      |
| CEE           | - | Continuous Evaluation Examination                                                  |
| PWE           | - | Practical Work Examination                                                         |
| SEE           | - | Semester End Examination                                                           |
| SPE           | - | Supplementary Examination                                                          |
| IR            | - | Initial Registration                                                               |
| RR            | - | Repeat Registration                                                                |
| RS            | - | Repeat Registration for Studying all components of a course                        |
| RRE           | - | Repeat Registration Examination                                                    |
| RRC           | - | Repeat Registration for Examination of continuous evaluation component of a course |
| RRP           | - | Repeat Registration for Examination of Practical/Lab work of a course              |
| RRS           | - | Repeat Registration for Semester End Examination of a course                       |
| GPA           | - | Grade Point Average                                                                |
| SGPA          | - | Semester Grade Point Average                                                       |
| PGPA          | - | Programme Grade Point Average                                                      |
| CGPA          | - | Cumulative Grade Point Average                                                     |
| R.ENG(UG)     | - | Regulation of Technology & Engineering (Undergraduate Programme)                   |

## **R.ENG(UG) 1: THE PROGRAMMES**

The Undergraduate Degree Programmes in Technology & Engineering leading to the Bachelor of Technology (B Tech) Degrees offered by the Institute of Technology, Nirma University under the Faculty of Technology & Engineering. The programmes are full time and of four-year duration. The medium of instruction of the programmes is English (Annexure-I).

## **R.ENG(UG) 2: ELIGIBILITY CRITERIA AND DETERMINATION OF**

### **MERIT FOR ADMISSION**

The Eligibility criteria and criteria for determination of merit for the admission in the First Year of Bachelor of Technology programmes under the Faculty of Technology & Engineering, Nirma University shall be as per Annexure-II.

## **R.ENG(UG) 3: CATEGORIES OF COURSES**

The following categories of courses are offered in the programme which may also be part of major and minor.

### **3.1 Core Courses:**

The courses to be compulsorily studied by the students as a core requirement to complete the academic requirement of a programme as prescribed by the Academic Council.

### **3.2 Elective courses:**

Elective course is a course which can be chosen from a pool of Courses. It may be:

- Supportive to the discipline of study
- Providing an expanded scope
- Enabling an exposure to some other discipline/domain
- Nurturing student's proficiency/skill

An elective may be "Generic Elective" focusing on those courses which add generic proficiency to the students. An elective may be "Discipline centric" which may include the elective offered for major and minor or may be chosen from another discipline.

### **3.3 Dissertation:**

A candidate studies such a course with an advisory support by a teacher/expert in the concerned field is called dissertation it may be offered as a core course or elective course depending upon the Teaching and Examination scheme approved by the Academic Council from time to time.

**3.4 Project(s)/Internship(s):**

All students will have to complete project(s)/internship(s) with a social or an industrial or business or service or a foreign organization for a duration as prescribed in the Teaching and Examination Scheme with an objective to provide professional learning experience and/or that offers meaningful practical work related to a student's field of study or career interest or any field.

**3.5 Value Added Courses:**

They are offered to the students to provide an additional exposure to certain skills/knowledge. This is a Non-credit course. The Dean is empowered to decide these courses, their curriculum, teaching and examination schemes, passing standards, etc. in accordance with the value-added course policy approved by the Academic Council and from the list of courses approved by the Academic Council.

**3.6 Audit Courses:**

These are optional courses. Audit courses are not evaluated for the purpose of assessing the academic performance of the students and no grade will be awarded for these courses.

**3.7 Vocational Course:**

Vocational courses are career/job-oriented courses prepares learners for jobs that are based in manual or practical activities. These courses are traditionally non-academic and totally related to a specific trade, occupation or vocation.

**R.ENG(UG) 4: COMPONENTS OF A COURSE**

The academic schedule of the courses may consist of one or more of the following components with their respective scope as described.

**4.1 Lecture:**

Teaching learning sessions conducted through real and virtual classrooms with various multimedia aids and other forms of students learning engagements as per requirement of the course and approved by the Dean.

**4.2 Tutorials:**

Supplementary to classroom teaching tutorials are conducted as per Nirma University Tutorial Policy and as amended from time to time.

**4.3 Project Work / Practical Work/ Studio/Workshop/Field work:**

The students will be engaged in research or Practical Work pertaining to a course.

## R.ENG(UG) 5: CO-ORDINATORS

### 5.1 Course Coordinator (to be nominated by the Dean for each course):

To coordinate all matters related to the conduct and assessment of a course.

### 5.2 Examination Co-ordinator (to be nominated by the Dean):

To look after all matters regarding Registrations and Re-registrations of courses and also to provide guidance and counselling to students regarding these issues.

## R.ENG(UG) 6: TEACHING AND EXAMINATION SCHEME

### 6.1 Teaching Scheme:

The scheme of teaching in a semester as a whole will be referred as Teaching and Examination Scheme.

The schemes show the various courses, distribution of teaching hours, course component/s, examination components and their weightages and credits allotted to each course.

The courses offered in each programme (Semester wise) and their teaching schemes are given in the Semester Schedules approved by the Academic Council from time to time on recommendation of Faculty of Technology & Engineering.

### 6.2 Examination Scheme:

For assessment of a course, a student is assessed on following components:

- (a) Continuous Evaluation Examination (CEE) - that includes several sub-components such as Quiz/Test, Assignment, comprehensive Viva, Project (Group/ individual), etc. All exercise in CEE will be continuously assessed during the semester and given marks.
- (b) Practical Work Examination (PWE) – that includes several subcomponents as per the practical work policy of institute of Technology. All assignments in practical work will be continuously/ periodically assessed (as applicable) during the semester.
- (c) Semester End Examination (SEE) which will be conducted at the end of the semester/term. The SEE covers the entire syllabus of the course.

The course in each programme (semester-wise) and their examination scheme along with the teaching scheme are given in the Semester Schedules approved by the Academic Council from time to time on recommendation of Faculty of Technology & Engineering.

The assessment of sub-components of courses for CEE & PWE differ depending upon the nature and the teaching scheme of the concerned course. The detailed assessment scheme of the CEE, PWE and SEE for each course will be finalized and notified in form of course outline by the Dean in accordance with the assessment policy approved by the Academic Council.

## R.ENG(UG) 7: REGISTRATION IN COURSES

### Registration:

There are two categories of registration, Initial Registration (IR) and Repeat Registration (RR). All categories of registration will collectively be referred to simply as Registration. Registration will be done for each course. All Registration, wherever applicable, will be subject to the availability of courses. Students' registration in a Semester will be in chronological order.

### Categories of Registration:

#### 7.1 Initial Registration (IR):

In order to study a course for the first time, the student will register under the IR category. This will imply regular attendance for study of all components of that course and appearing at all examinations thereof. IR registration for courses of a Semester are to be done for all courses of that Semester as shown in the Teaching Scheme; Generally, IR registration will not be permitted for lesser number of courses. The student who so registers (IR) for all courses of a Semester will be considered as having been registered in that Semester.

#### 7.2 Repeat Registration (RR):

Repeat registration is consisting of following categories of registrations;

##### 7.2.1 Repeat Registration for Study of a course (RS):

This category will imply regular attendance (as per R.ENG(UG) 8) to study all components (i.e. LT, CE, PW as applicable) and appearing at all examinations thereof. The student has to seek fresh registration for this category and will be subject to the availability of the course/s.

##### 7.2.2 Repeat Registration for Examination (RRE):

This registration is necessary for appearing again in a particular examination of a course. It will not involve regular attendance for studying the course.

Repeat Registration for Examination will be in the following categories:

- (a) Repeat Registration for the Examinations of Continuous Evaluation component of a course (RRC)
- (b) Repeat Registration for the Examination of Practical /Lab Work (RRP)
- (c) Repeat Registration for Semester End Examination of a course (RRS).

#### 7.3 Approval of Registration:

Every student must apply in the prescribed format for registrations, as applicable. The decision on the student's request will be based on the availability of courses and applicable Regulations. The

Dean will issue appropriate orders for processing the application, including scrutiny, verification and final orders.

## **R.ENG(UG) 8: ATTENDANCE REQUIREMENT FOR APPEARANCE AT SEMESTER END EXAMINATION**

A student has to comply with the following condition course wise to be eligible to admit for SEE:

### **8.1 Attendance:**

Students under category of (IR, RS) should have at least 85% attendance, including Academic Leave in all teaching components of the course (as applicable)

### **8.2 Appeal Committee:**

A student who has not met with attendance requirement of any course may appeal to the Appeal Committee giving full reasons for his/her default. The decision of the Committee in all such cases will be final. The student will be allowed to appear in the examination of the course only if the appeal committee condones the deficiency.

If the committee rejects the appeal of the student, then the student will not be permitted to appear in SEE of the concerned course. Accordingly, She/He will also be given grade F in that course and S/he will have to seek RS category registration.

Notwithstanding anything contained in these regulations, if a student is unable to meet the attendance requirement for certain courses due to a serious medical condition the student may submit an appeal to the Director General through the Director of the concerned institute with his/her recommendation.

The Director General may consider such appeal based on the recommendation of the concerned Director, provided that the student has attended a minimum of 50% of the total contact hours conducted for the respective courses.

The Director General, upon receiving the appeal with the recommendation of the Director and being satisfied with the merits of the case, may allow the student to appear in a supplementary/special examination for the affected course(s), provided:

- The student shall have to attend supplementary teaching sessions specifically conducted to address the academic shortfall arising from the attendance deficiency, upon payment of the prescribed fee.
- The student scores the minimum prescribed marks in Continuous Evaluation (CE). The marks secured by the student in the continuous evaluation during the regular semester shall be retained. However, in cases where specific components of continuous assessment were missed due to the exceptional circumstance (with the prior approval of the Director) the concerned course faculty may provide an alternative assessment opportunity.

## R.ENG(UG) 9: SCOPE OF EXAMINATIONS AND ASSESSMENT

The scope of examinations and the method of assessment are as follows:

### 9.1 Continuous Evaluation Examination – CEE (IR & RR Registration):

The learning of the students will be continuously assessed during the Semester for each component using marks/scores. The total marks of components of continuous evaluation will be aggregated based on their inter se weights to give the overall percentage of marks in the CEE examination.

If a student fails in CEE, the student will not be permitted to appear in SEE of that course and the student will have to seek RRC.

### 9.2 PW Examination (IR and RR Registration):

All assignments of a course in Practical Work will be continuously / periodically assessed (as applicable) during a semester. Each assessment will be given marks. The total marks of all Units of PW will be aggregated based on their inter se weights to give the overall percentage of marks in the PW examination. The course coordinator will notify the procedure for assessment, review, viva voce, etc. to the students in advance.

If the student fails in PW examination, the student will not be permitted to appear in SEE of that course and the student will have to seek registration as RRP in subsequent semester.

### 9.3 Semester End Examination (IR & RR Registration):

The expression 'Semester End Examination' refers to the Hall Examination of a course taken at the end of a Semester. The SEE of a course will cover the entire syllabus of the course. The assessment will be mark based.

If the course coordinator desires that there should be an open book examination in a course in any SEE, S/he may make a suitable recommendation to the Department/Programme Head. Final approval of the Dean will be necessary before the scheme is implemented. This method of examination must be announced to the students through the Course Outline before the commencement of the respective course.

### 9.4 Supplementary Examination (SPE):

**(RR registration, grade F in SEE)**

The Institute may decide to hold a Supplementary Examination (SPE) for SEEs at the end of each semester for students who have failed in SEE or who wish to improve the performance of SEE, such students will have to seek RR registration to take up SPE.

**9.5 Schedules of SEE and SPE:**

SEEs of all courses of the programme, as per the teaching scheme, will be held at the end of each Semester. The date of the Supplementary Examinations (SPE) will be held generally after 15 days from the date of result declaration of SEE and will be for only those courses that are offered in that semester.

- 9.6** Absence in SE examination with or without approval will be assigned Zero [0] marks and appropriate grade will be given to the student. However, s/he will be permitted to appear in the Supplementary Examination.

**R.ENG(UG) 10: ASSESSMENT AND ROLES OF EXAMINERS****10.1 CE & PW:**

The Course Coordinator in consultation with the faculty teaching in a course proposes the CE & PW components and their inter se weightage to the respective Head of Departments. The Dean takes the final decision for the same in consultation with the Departmental Head and the same be notified to the students before commencement of the course. Normally the faculty teaching a course/ component shall be the examiner for assessing the CE & PW components of the course.

**10.2 Semester End Examination:**

Normally the examiners for assessment of SEE shall be appointed as per the guidelines and examinations rules of Nirma University. There will be a minimum of two examiners in a course and both the examiners are individually responsible for assessment work allotted to them. The assessment shall be carried out after the meeting of examiners to discuss and finalize the Marking Scheme and the methods of evaluation, which will be duly minuted for further reference.

**10.3 Maintenance of the assessed material of the SEE:**

The examination section of the University shall maintain the assessed material of the semester/trimester end examination for one year.

**10.4 Timeliness of Result Announcement:**

It is essential to maintain the timeliness of all components of assessments, both formative and summative. In any case, the faculty should not take more than 07 days to declare any result of the formative assessment and normally not more than 07 days to submit the assessment of the Semester End Examination to the university examination section.

**10.5 Declaration of final results:**

The university shall announce the course grades of every semester/trimester within 10 days from the date of completion of the Semester End Examination. In case of failure to do so, the reasons for non-completion of results will be informed to the Director General.

**10.6 Review of the question papers of SEE:**

The Internal Quality Assurance Cell (IQAC) shall ensure that the review of the question papers should be completed within 30 days of the completion of the Semester End Examination.

The Head of the Institute shall form a departmental or Institute level committee consisting of three senior faculty members to review the quality of the question papers for the semester end examination. The report of the same shall be submitted to the Head of the Institute within 30 days of the completion of the said examination.

The Policy on Assurance of Learning [notified by Nirma University from time to time] shall be referred and accordingly, parameters of review of the quality of the question papers of SEE shall be carried out. The summary report of this review shall be placed before the Board of Studies of the concerned department for discussion and further improvements.

**10.7 Audit of Course Assessments:**

To enhance the quality of assessment, an audit of the assessment of a course of any one of the divisions in a semester shall be conducted in each programme covered under the policy. The course will be selected by the concerned Dean in consultation with the department head. The Institute shall develop a suitable mechanism to audit the same and report to the Director General through University IQAC.

**R.ENG(UG) 11: GRADE AND PERFORMANCE LEVELS**

The overall Academic Performance level of a student in any course will be adjudged in Semesters of the letter grades, and grade points. Table-1 provides significance of letter grades along with its equivalent grade points.

**11.1 Absolute Grading:**

The University follows the absolute grading system where the overall percentage of marks of a course shall be assigned an appropriate later grade as per the Grading system.

**11.2 Course Grade:**

Course grade will be given only when the student meets with the academic standards of passing of all components of a course.

Marks of SEE, CEE and PWE (as applicable) examinations shall first be aggregated on the basis of the component / inter se weights given in the Teaching Scheme. The overall percentage of marks, if fractional, will be rounded off to the next higher integer. After the aggregate marks of a student is calculated, the performance of each student in the course as a whole will be assigned a grade using the below conversion table.

**Table No. 1 Conversion of Marks into Course Grades**

| <b>Overall Percentage<br/>(%) of Marks obtained</b> | <b>Letter Grade</b> | <b>Qualitative Meaning</b> | <b>Grade Point</b> |
|-----------------------------------------------------|---------------------|----------------------------|--------------------|
| 91 and above                                        | O                   | Outstanding                | 10                 |
| 81 to 90                                            | A+                  | Excellent                  | 9                  |
| 71 to 80                                            | A                   | Very good                  | 8                  |
| 61 to 70                                            | B+                  | Good                       | 7                  |
| 51 to 60                                            | B                   | Above average              | 6                  |
| 46 to 50                                            | C                   | Average                    | 5                  |
| 40 to 45                                            | P                   | Pass                       | 4                  |
| Below 40                                            | F                   | Fail                       | 0                  |
| Absent                                              | Ab                  | Absent                     | 0                  |

The Grade Report/Transcript will show only the Course Grade and not the marks.

## **R.ENG(UG) 12: PERFORMANCE LEVELS**

The performance level of a student in credit courses at different stages of the study in a programme is assessed by the following measures.

### **12.1 Course Grade Point:**

The numerical value (Grade Point) corresponding to the letter grade obtained in a course by a student.

### **12.2 Semester Grade Point Average (SGPA):**

The Grade point Average (GPA) is computed from course grades as a measure of student performance in the courses. SGPA is based on the grades of all courses scheduled under a semester and it is the ratio of the sum of the product of the number of credits with the corresponding grade points scored by a student in each course and the sum of the credits of all the courses undergone by a student.

$$\text{SGPA (Si)} = \sum(C_i \times G_i) / \sum C_i$$

where  $C_i$  is the number of credits of the  $i$ th course and  $G_i$  is the grade point scored by the student in the  $i$ th course of the semester.

### 12.3 Cumulative Grade Point Average (CGPA) & Programme Grade Point Average (PGPA):

The SGPA is based on the grades in all courses taken in a semester, while the CGPA is based on the grades in all courses taken after joining the programme of study at any point of study of a programme. The CGPA computed on completion of a programme based on the grades of all the credit courses of the programme is Semester as Programme Grade Point Average (PGPA).

$$\text{CGPA} = \sum(C_i \times G_i) / \sum C_i$$

where  $C_i$  is the number of credits of the  $i$ th course,  $G_i$  is the grade point of the  $i$ th course at any point of study of the programme.

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

### 12.4 Equivalent Percentage (%) Marks for CGPA:

In case an equivalence between GPA values and percentage of marks is desired, the same can be obtained as given below:

$$\text{Equivalence \% of marks} = \text{CGPA value} \times 10.$$

## R.ENG(UG) 13: PASSING STANDARDS

### 13.1 Component-Wise Minimum Passing:

A student is required to meet component-wise minimum marks for passing a course. The requirement of minimum marks in CE, PW and SEE is 40% each. A student is permitted to appear for the Semester End Examination only after S/he meets the requirement of passing in the CE & PW components.

### 13.2 The standard for passing a course:

The minimum standard for passing a course as whole is "Grade P".

### 13.3 Academic Standard for Successful Completion of a Semester:

For successful completion of a semester a student is required to earn a minimum SGPA of 5.00 besides he/she is required to pass all courses of semester.

## R.ENG(UG) 14: FAILURE

### 14.1 Failure of components of course:

A student not meeting the minimum academic standard for passing any of the course components shall be awarded course Grade 'F'.

### 14.2 Scope for improvement:

Student fails in any component of a course is permitted to register (RR) for improvement during end of the following semester in addition to the opportunity to improve the SEE component by taking supplementary examination at the end of the same semester.

Similarly, the students not meeting with SGPA mentioned in R.13.3 are also permitted to register (RR) for improvement of passed courses with a Course Grade of 'C' or below.

Marks obtained in the improvement examination under RR category shall be considered for computation of final course grade even if the mark obtained is less than the previous examination.

As per the availability of the course, examinations will be conducted specifically for the student who wishes to improve the result or along with other students appearing in examination under Initial Registration (IR).

### R.ENG(UG) 15: ACADEMIC BREAK:

A student will be allowed to take the break up to one academic year during the programme due to medical reason or any other justifiable reason subject to approval of the Director General on the recommendation of the Dean. The decision of Director General for consideration or rejection of such request shall be final. If the student considered for Academic break then following conditions shall apply:

- a) The student shall not be entitled for award of Medal,
- b) The student has to complete the study within the admissible duration to complete the programme,
- c) Payment of all applicable fees.

### R.ENG(UG) 16: ACADEMIC PROGRESSION RULE

In order to successfully complete a semester a student is required to meet the academic standard as per Regulation R.ENG(UG) 13.3. However, a student be allowed to promote to the next higher semester even if he/she has not met with the all requirements subjects to certain conditions.

#### 16.1 Failure in Course:

A student will be allowed to register for the courses of the next higher semester even if he/she has not meet with the minimum academic standard to pass all the courses of the semester subject to the condition that he/she has backlog in not more than 3 credit courses.

If a student fails to meet with the above condition will not be permitted to register for respective higher semester. Such students will repeat sufficient number of courses as ex-student and meet with the requirement of the promotion criteria.

## 16.2 Failure to meet the Academic requirement of the Semester:

Similarly, a student will be allowed to register for the higher semester even if S/he fails to meet with the minimum academic requirement for successful completion of a semester subject to the condition that the requirement of the 1st semester, 2nd semester, 3rd semester and 4th semester should be met by the end of 3rd semester, 4th semester, 5th semester and 6th semester respectively. If a student fails to meet with the above condition will not be permitted to register for respective higher semester. Such students will repeat sufficient number of courses as ex-student and meet with the requirement of the promotion criteria. Such students can also appeal to the Appeal Committee for grant of opportunity to be promoted to the next higher semester, provided that the student gives a viable assurance to make-up the short fall within a semester. The decision of the Appeal Committee will be final in this regard.

## R.ENG(UG) 17: AWARD OF DEGREE

To qualify for the award of Bachelor of Technology degree a student requires:

- a) PGPA 5.0
- b) successfully complete the prescribed credits of the programme as specified in the Teaching and Examination Scheme
- c) successfully complete Value-added courses(s) as notified by the Dean in the Teaching and Examination Scheme with a minimum grade 'satisfactory, failing to which, s/he is required to improve the Value-added courses(s) grade in the scheme as prescribed by the Dean, Faculty of Technology & Engineering

## R.ENG(UG) 18: CANCELLATION OF ADMISSION

The admission of following categories of students is liable to be cancelled:

- a) Failure to meet the academic requirements for the award of undergraduate degree within (4+2) years from the date of admission to the programme
- b) The student, whose admission is so cancelled, can appeal to the Appeal Committee. The Committee may grant an extension up to the TWO additional Semester/s, provided the student gives a viable assurance to make up the shortfall within that period.

Note:

Notwithstanding anything contained above, if a student has cleared all the courses and have earned the requisite number of credits except one course, may appeal to the President. The President may consider such appeal on the recommendation of the appeal committee prescribed under the regulations for the purpose and after considering the genuineness of the case may give ONE more additional attempt to the student concerned to clear the remaining course.

**R.ENG.(UG) 19: PRE-REQUISITE COURSES AS CREDIT COURSES**

- 19.1 The students who are admitted in the higher semesters as per provisions of Annexure-II under Regulation R.ENG.(UG)-2 shall be required to complete the pre-requisite courses as defined under the said regulation.
- 19.2 The syllabi and teaching and examination schemes for pre-requisite courses will be approved by the Director General on the recommendation of the Dean concerned.
- The Regulations for examinations, assessment, grading and passing etc., will be the same as those for credit courses.
- 19.3 The student shall have to pass a pre-requisite course in a maximum of four consecutively available attempts. Failure to satisfy this criterion at any stage will disqualify the student from registering in any higher semester.
- 19.4 On passing all scheduled pre-requisite courses, the student will be deemed to have earned all credits allotted to the first/ first two semesters, as the case may be. The credits earned for pre-requisite courses will not be counted for calculating any performance index.

**Nirma University**  
**Institute of Technology**  
**Annexure – II**

**R.ENG. (UG) .2:**

**i. ELIGIBILITY CRITERIA AND DETERMINATION OF MERIT FOR ADMISSION**

- (A) The students seeking admission in the 1st year of Degree Programmes leading to Bachelor of Technology (B Tech.) shall have passed the Qualifying Examination with minimum eligibility criteria of percentage of marks in the subjects as prescribed by the Govt. of Gujarat from time to time.
- (B.1) The students seeking admission in the 2nd year (3rd semester) of Degree programmes leading to Bachelor of Technology (B Tech.) shall have passed the qualifying examination with minimum aggregate marks as prescribed by the Govt. of Gujarat from time to time
- (B.2) Such students will be required to pass following pre-requisite courses, to be offered during 2nd year of B Tech. Programmes:
  - a) Foundation Mathematics – I
  - b) Foundation Mathematics – II
  - c) Computer Programming

**DETERMINATION OF MERITS FOR THE ADMISSION:**

The method of determining the merit for the admission will be decided by the Director General, Nirma University from time to time depending upon the requirement.

**DISCLAIMER**

This regulations are the content of the original notifications issued in pursuance to the Board of Governors meetings and hence, in any dispute or doubt under this document will be verified with the original notification and the same would be final.

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# **6.**

# **Forms**

# **&**

# **Undertakings /**

# **Declaration, Policies**

## **(For reference purpose only)**

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## FORM OF MEDICAL FITNESS CERTIFICATE

(To be produced at the time of reporting at the institute)

I / Dr. \_\_\_\_\_ (Name & Designation) posted in \_\_\_\_\_ (Name of Hospital & Place) certify that I have carefully examined \_\_\_\_\_ (Name of Candidate) S/o. D/o. Shri \_\_\_\_\_ and according to his/her medical examination, I have diagnosed nothing that may prevent him/her pursuing under graduate/post graduate degree courses.

He/She has no disease or mental or bodily infirmity making him/her unfit or likely to make him/her unfit in the near future for visits / training / internships / projects etc. at industries, and active out door duty, as a student.

Mark of identification: \_\_\_\_\_

Signature of Medical Officer

Seal of Designation and Hospital

Dated:

Photograph of  
candidate duly  
attested by the  
Medical Officer



## UNDERTAKING FOR CONDUCT AND DISCIPLINE RULES FOR THE STUDENTS

I,.....IT,NU Merit No. / Roll No. ....  
admitted in ..... (programme) of the Institute of Technology, Nirma University do  
hereby declare and undertake that I shall comply with followings:

1. I always carry the identity card while I remain in the campus and produce if required by the competent authorities.
2. I attend all the scheduled classes from the beginning to the end of the term/semester. I am aware that absence due to illness or any unavoidable circumstances shall be considered only if the application is supported by medical certificates and/or if the leave application is submitted to the Director through the parents.
3. I shall be polite individually or in groups and show respect to the faculty (teachers) as well as to the staff of the Institute. I shall follow the Instructions in connection with academic or other matters as instructed by the teachers from time to time. I shall not participate in activities that may cause harm to the academic environment or teacher-student relation.
4. I am aware that the action of any individual, group or wing which amounts to interference in the regular administration of the Institute/University is prohibited.
5. I am aware that Causing disfiguration or damage to the property of the Institute/University or belongings of staff members or students is forbidden.
6. I am aware that No student shall indulge in any activity in the college campus that might be illegal or may lead to disorderliness.
7. I am aware that I should not be in possession of any intoxicant or intoxicating materials and should not consume such things.
8. I am aware that use of any kind of mobile phones; whether ordinary, camera phone or smart phone in the academic areas during academic activities, is prohibited. However, for academic purpose or in exceptional cases, the students can be allowed to use mobile with prior permission. Unauthorized use of mobile phone in the academic area specifically in the classrooms is prohibited failing to which the fine of Rs. 5000/- can be imposed.

During the examinations; specified rules for the same shall be followed.

9. I shall abide by the Code of Conduct, Procedure to inquire and decide with misconduct/indiscipline by students Rules 2020 and other related provisions like dress code on the campus, rules for maintaining vehicles on the campus, and public display of affection (PDA) and etiquette on the campus etc.

Signature of Student \_\_\_\_\_

Date : \_\_\_\_\_

**Declaration**

I,....., solemnly affirm, declare and undertake that I shall abide by all the rules and regulations and if I found violating any rules then, I shall be subjected to the necessary action/penalties as per provision of rules/regulations.

In case of any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Sign \_\_\_\_\_

Date:

Place: Ahmadabad



## UNDERTAKING FOR ACADEMIC RULES AND REGULATIONS

Registration No./Merit No. \_\_\_\_\_

I, Mr./Ms. \_\_\_\_\_ son/daughter of  
 \_\_\_\_\_ have secured admission at the  
 Institute of Technology, Nirma University in the year 2025-26 for the BTECH / BTECH (CSE)-MBA / BS (CSE) [2+2  
 Dual Degree] 2026 Programme. I hereby confirm that I have gone through the academic rules and regulations of  
 the programme/Institute very carefully and I assure you that I will abide by the same.

\_\_\_\_\_  
 Name & signature of student

\_\_\_\_\_  
 Endorsement by parent/guardian



## UNDERTAKING FOR NOT INVOLVING HIMSELF/ HERSELF FOR RAGGING

I, \_\_\_\_\_ admitted in the Semester I (One) of the BTECH / BTECH (CSE)-MBA / BS (CSE) [2+2 Dual Degree] 2026 Programme at the Institute of Technology, Nirma University, do hereby declare and undertake that I am fully aware of the rules and regulations regarding ragging and aware of the University's policy towards zero tolerance on ragging which are in line with the Directives of the Hon'ble Supreme Court of India. I am also aware about the punishment, if I found guilty of ragging or violating the rules.

Date:

Place:

Signature of the student

Name of the student:

\_\_\_\_\_

Signature of the Parent/ Local Guardian

\_\_\_\_\_

Name of the Parent/ Local Guardian:

\_\_\_\_\_



## Declaration to be submitted by the Students Admitted to Different Programmes of the University (Code of Conduct)

### DECLARATION

I, \_\_\_\_\_ admitted in \_\_\_\_\_  
(programme) of the Institute of \_\_\_\_\_, Nirma University do hereby declare and undertake that I will abide by the Code of Conduct, Procedure to inquire and decide with misconduct/indiscipline by students Rules 2020 and other related provisions like dress code on the campus, rules for maintaining vehicles on the campus, and public display of affection (PDA) and etiquette on the campus etc. will abide by all the rules and regulations and if I am found violating any rules then, I shall be subjected to the major/minor penalties as per the provision of aforesaid rules.

In case any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Date:

Place:

Signature of the student

Name of the student:

Signature of the Parent/ Local Guardian

Name of the Parent/ Local Guardian:



## Undertaking for Rules & Regulations of the Examination

I, \_\_\_\_\_ Roll No. \_\_\_\_\_  
 studying in First year of \_\_\_\_\_ programme at Institute of \_\_\_\_\_,  
 Nirma University, Ahmedabad do hereby undertake that I have read and understood all the Rules & Regulations  
 related to Academic Dishonesty at examinations/tests/assignments and punishment in case of using unfair means, I  
 have also gone through the Academic Regulations related to Granting of Term and Cancellation of admission, and I  
 shall observe, follow and abide by all these rules and regulations.

I shall abide by all the rules and regulations and if I am found violating any rules then, I shall be subjected to the  
 necessary action/penalties as per provision of rules/regulations.

In case any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Signature of Parents \_\_\_\_\_



## UNDERTAKING

### (To refrain from consumption of Drugs and Alcohol)

I, \_\_\_\_\_ bearing Roll No. \_\_\_\_\_  
admitted in \_\_\_\_\_ (programme) of Institute of \_\_\_\_\_,  
Nirma University, do hereby declare and undertake that I will refrain myself from consumption of Drugs and Alcohol.

I have read the relevant instruction with regard to ban on consumption of drugs and alcohol. I am aware that the use/possession of narcotics drugs and alcohol is a punishable offence under the law of the Government of Gujarat and if I am found guilty of using such thing/s, then it will amount to a criminal offence and I am liable for the appropriate penalty as per laws.

I hereby give an undertaking to the Institute that I will refrain myself from consumption of Drugs and Alcohol.

Date \_\_\_\_\_

Place \_\_\_\_\_

Signature of Student

I undertake that I will take utmost care to see that my ward does not get involved in any such incident.

Name of Parent/Guardian \_\_\_\_\_

Signature of Parent/Guardian \_\_\_\_\_

Address of Parent/Guardian with contact nos. \_\_\_\_\_

# DRESS CODE, AND PUBLIC DISPLAY OF AFFECTION & ETIQUETTE ON THE UNIVERSITY CAMPUS

## Dress Code on the Campus

The students may wear formal and casual dresses, like:

Formal dresses including pants and long below-knee length skirts, dresses, sarees, etc. Business professional including formal pants, shirts, khakis, chinos, salwar suits, etc. Semi-business casuals including dark jeans and shirt. Leather, formal, and Semi-formal shoes and sandals.

The students must avoid wearing informal and inclement dresses, like:

- Shorts, Bermudas. any knee-exposing bottoms
- Shoulder baring tops, Midriff-baring tops
- Skinny and skimpy dresses, Transparent and inappropriate dresses
- Bank Tops, Ripped Jeans, Slippers

The inappropriate dressing on the Campus will be considered as an act of indiscipline and appropriate disciplinary action will be taken against such students.

## Public Display of Affection and Etiquette on the Campus

Public display of Affection (PDA) is inappropriate behaviour on the campus. It can affect others in several ways, including some of the following:

- It can make others feel uncomfortable and embarrassed, which can lead to a negative and hostile environment.
- Such actions can distract others from their academic pursuits and affect their ability to focus on their studies.
- It can invade others' personal space and make them feel violated of their basic rights.
- Engaging in PDAs is seen as disrespectful to others and can harm community relations.

The University encourages all students to be respectful of others and to maintain a professional and educational atmosphere on the campus. PDA will be considered as a misconduct and appropriate disciplinary action will be taken against any student indulging in it.

The University has strict policies in place to ensure the safety and well-being of all students, and any violation of these policies will result in disciplinary action.

# NIRMA UNIVERSITY - INFORMATION TECHNOLOGY POLICY

## Preamble:

The Nirma University Information Technology (IT) Policy sets forth the central policies that govern the responsible usage of all users of the University's information technology resources. This comprises the IT facilities allocated centrally or by individual departments. Every member of the University is expected to be familiar with and adhere to this policy. Users of the campus network and computer resources ("users") are responsible to properly use and protect information resources and to respect the rights of others.

## Applicability:

The IT Policy applies to all University faculty, staff and students and all others using the IT resources, whether personally or of University owned, which access, transmit or store various types of related information.

## 1. Objectives

Each user of the University Information Resources must ensure that it is used for promoting the mission of the University towards teaching, learning, research, and administration. In particular, the major objectives of this document are:

- 1.1 To ensure the integrity, reliability, availability, and superior performance of the University IT Systems
- 1.2 To ensure that the IT resources protects the official e-identity (allocated by the University) of an individual
- 1.3 To ensure that all the users of the University are responsible for adhering to the procedures governing the implementation of this Policy document and any other matter incidental to those rules

## 2. Areas:

### 2.1 IT usage and Prohibitions

2.1.1 The users of the University shall make effective usage of campus collaboration systems, internet, wireless resources, official websites (including university website, conference website, journal portals, online admission systems, and course website), and Management Information Systems (MIS) and ERP solutions, Learning Management System, Remote Login based facilities of the University and e-Library resources.

2.1.1 The University shall stress upon the users to comply with University policies and legal obligations (including licenses and contracts).

- 2.1.2 The University shall strive to arrange for awareness programmes to acquaint the users with the effective usage of IT resources.
- 2.1.3 Prohibited Use - The users shall not send, view or download fraudulent, harassing, obscene, threatening, or other messages or material that are a violation of applicable law or University policy. In particular, contributing to the creation of a hostile academic or work environment is prohibited.
- 2.1.4 Copyrights and Licenses - Users must not violate copyright law and must respect licenses to copyrighted materials. For the avoidance of doubt, unlawful file-sharing using the University's information resources is a violation of this policy.
- 2.1.5 Social Media - Users must abide by the rules of the University towards the usage of social networking sites, mailing lists, news rooms, chat rooms and blogs.
- 2.1.6 Commercial Use - The University IT resources shall not be used for any commercial and promotional purposes, through advertisements, solicitations or any other message passing medium, except as permitted under University rules.

## **2.2 Security and Integrity**

- 2.2.1 Personal Use - The University IT resources should not be used for activities violating the basic functionality and mission of the University, except in a purely incidental manner.
- 2.2.2 The users must refrain from making any unauthorised access of information in order to promote secure access of Network and Computers.
- 2.2.3 The competent system administrator may access the information resources for a legitimate purpose.
- 2.2.4 Firewall - Additional procedures to maintain a secured flow of internet and intranet based traffic in the campus shall be managed through the use of Unified Threat management (firewall).
- 2.2.5 Anti-virus and security updates - The regular updation of the anti-virus policy and security updates should be done for the protection of computing resources.

## **2.3 IT Asset Management**

- 2.3.1 Asset Management: The University shall lay down business processes for the management of hardware and software assets that facilitates the usage of IT resources in the University. This shall include procedures for managing the purchase, deployment, maintenance, utilization, energy audit, and disposal of software and hardware applications within the University.
- 2.3.2 Copying and Distribution: The University shall ensure that there is no violation in the copying and distribution of proprietary and licensed softwares.
- 2.3.3 Risks: The University shall emphasize on managing the risks involved for the usage of IT resources. This shall include standard procedures for identification, minimization and monitoring of risk

impact by preventive and corrective measures. This should also include procedures for timely data backup, replication and restoring policies, power backups, audit policies, alternate internet connectivity for a fail-safe internet access.

- 2.3.4 Open Source Asset: The University shall endeavour towards the promotion and effective usage of open source softwares.

### **3. Operating Aspects:**

- 3.1 University Governance - The University shall endeavour to ensure fair implementation of this policy so as to meet with the objectives of its formation. The responsibility of the management of operational aspects of IT resources is as per the hierarchical flow of the University governance structure.
- 3.2 The respective Heads of the Institutions shall be responsible for compliance with all University policies relating to the use/ownership of information resources, keeping in mind the Vision and Mission of the University.
- 3.3 Chief Technical Officer working at University Level shall coordinate various activities related to the adherence of the IT Policy in association with the IT Administrator of the respective Institute.
- 3.4 Individual Users - The users are solely responsible for the activities they perform on Institute/University servers with their "UserName/Password" pairs and IP (Internet Protocol) addresses assigned to them.

### **4. Violation of Policy:**

Any violation of the basic objectives and areas mentioned under the IT Policy of the University shall be considered as a violation and as a misconduct and gross misconduct under University Rules.

### **5. Implementation of Policy:**

For implementation of this policy, the University will decide necessary rules from time to time.

### **6. Review and Monitoring:**

The Policy document needs to be reviewed at least once in two years and updated if required, so as to meet the pace of the advancements in the IT related development in the industry.

Review of this policy document shall be done by a committee chaired by Director General of the University. The other members of the committee shall comprise of the Chief Operating Officer, Director (Academic and General Administration), Head of Institutions, Executive Registrar and other members as nominated by the Chair.

**Acknowledgement:**

*Nirma University wishes to acknowledge the following institutions whose related policies and procedure provided background and foundation in the preparation of this policy document:*

*Stanford University, Princeton University, Yale University, University of Michigan, Northern Caribbean University, Thapar University.*

URL of IT Policy,

**[https://nirmawebsite.s3.ap-south-1.amazonaws.com/wp-content/uploads/sites/26/2019/03/NU-IT-Policy\\_15052015\\_041321PM-1.pdf](https://nirmawebsite.s3.ap-south-1.amazonaws.com/wp-content/uploads/sites/26/2019/03/NU-IT-Policy_15052015_041321PM-1.pdf)**

## NIRMA UNIVERSITY- WI-FI POLICY

### Wireless Network Resources:- Rules and Regulations for wireless Access of NU

The use of wireless network resources (wireless network connection etc.), which are allocated to students, faculty and staff members of Nirma University, are subject to the rules and conditions set forth within **"NU Computing and Networking Access Rules"** which are as below.

1. While using Institute/Nirma University (NU) IT Resources, the users should respect the copyright and intellectual property rights for all the resources created using Institute/Nirma University resources such as software, hardware, network resources. Users can use such resources by carefully observing such rules and procedures as obtaining permission/approval, adhering to licensing terms, complying with networking ethics etc...

#### 2. Authorization and responsibilities

- The CSE Department of IT-NU makes available IT Resources to the users and maintains the operation and connectivity of the services in campus. CSE department will assign user name and password to the users for wireless access. For wireless access user must contact administrator, wireless network at A-104 computer centre with his/her laptop with duly filled registration form to complete registration process.
- The users of Institute/University are themselves solely responsible from the activities they perform on Institute/University servers with the "User name/Password" pairs and IP (Internet Protocol) addresses those are assigned to them.
- The Institute/University administration reserves all the rights to take appropriate action in the issues causing disputes amongst Institute/University Users/Special Users and the third parties.
- The Director IT-NU or committee appointed by Director, IT-NU is authorized and entitled to specify the all encompassing rules, regulations and policies about usage of IT Resources, review and revise them regularly according to the demands of the emerging new technologies, implement and enforce the amendments as and when required. The changes committed shall be announced publicly via web site on URL:

**[https://nirmawebsite.s3.ap-south-1.amazonaws.com/wp-content/uploads/sites/20/2019/03/wifirr\\_12112014\\_122414PM.pdf](https://nirmawebsite.s3.ap-south-1.amazonaws.com/wp-content/uploads/sites/20/2019/03/wifirr_12112014_122414PM.pdf)**

#### 3. General guide line for wireless users:

- This wireless access facility will be available during working hours of the Institute/ University.
- Use of the wireless/computing facilities/services must comply with the law of Institute/University, Government and all other concern regulatory authorities.
- Use of the Institute/University computing facilities/services must not interfere with any other user's usage. Detection of any such incident will lead to disciplinary action.

- User is not entitled to use computing facilities/services those he/she has not been authorised to use.
  - User must not access any program or data which he/she has not been specifically authorised for the use.
  - User must not use or copy any data or program belonging to other users without their explicit and specific permission.
  - User must not use Institute/University computing facilities/services to harass, defame, libel, slander, intimidate, impersonate or otherwise abuse another person. In such cases legal action will be taken against user(s).
  - User must not use Institute/University computing facilities/services for the creation, collection, storage, downloading or displaying of any offensive, obscene, indecent or menacing images, data or material capable of being resolved into such. (There may be certain legitimate exceptions for academic purposes which would require the fullest disclosure and special authorisations)
  - Users must not use the Institute/University computing facilities/services to conduct any form of commercial activity without explicit permission. Use of "computing services" for commercial work may be governed by software licence constraints and users should verify that the intended use is permissible under the terms of those licences with their local IT Support Staff.
  - Users must not use the Institute/University computing facilities/services to disseminate mass (unsolicited) mailings.
  - Users must not install, use or distribute software on his/her laptop for which he/she has not had a licence or permission.
  - In general, use of Institute/University "computing services" is available to users for study, research, academic work and administrative purpose of the Institute.
4. The personal use of the wireless network facilities by the users should in no way disrupt access priorities of those users that use the network for such **instructional, academic, research and administrative objectives**. In this respect, users must comply following points:
- a. Peer-to-peer (P2P) file sharing programs, as well as violating copyright and licensing rules, use up an excessive amount of bandwidth that consequently hinders the use of network resources for purposes of priority. For this reason, it is strictly forbidden to use the **"peer-to-peer"** file sharing programs - even if they are used inside the campus network. Such usage includes, **but is not limited to**, the following programs:
- KaZaA, iMesh, eDonkey2000, Gnutella, Napster, Aimster, Madster, FastTrack, Audiogalaxy, MFTP, eMule, Overnet, NeoModus, Direct Connect, Acquisition, BearShare, Gnucleus, GTK-Gnutella, LimeWire, Mactella, Morpheus, Phex, Qtella, Shareaza, XoLoX, OpenNap, WinMX, DC++, BitTorrent etc..*

- b. It is forbidden to use wireless network resources for mass **mailing, mail bombing, sending spam** and users are not allowed to provide the means to the third parties to perform similar acts.
  - c. It is prohibited to keep possession of server computers that **provide internet service** (web hosting service, e-mail service etc.) via wireless network.
  - d. Wireless network facilities of the Institute/University (network connection, user name, local/off-campus access etc.), which are granted as a privilege to the Institute faculty member, staff member or as a student, will be used by every user in an appropriate, legal, ethical and considerate manner in accordance with the codes of behaviour and the regulations. It is the sole responsibility of all users that they are not endangering the safety of the resources by providing intentionally or unintentionally the means to **the third parties to access to network resources in other words, users must not pave the way for others to exploit privileges and act as if they are authorized to own the legitimate rights of the Institute/University users.** (proxy, relay, IP sharer, NAT etc., username/password). The user alone is answerable and accountable for every unlawful and unwanted consequence that may result from this act.
  - e. It is forbidden to commit **activities that threaten the security of the network** (DoS attack, port-network scan etc.)
  - f. Users are definitely not allowed to **change the any settings which are provided** by administrator of wireless network interface. These settings are to be handled and verified to the authentication system of the IT-NU. If due to hardware failure (as in the cases of breakdown or failure of wireless network access card etc.) users must certainly report it to administrator of wireless network at A-104 computer centre to carry out the proper procedure for desired change. (The new computer/wireless network card will not gain access to the wireless network, unless it is not authenticated by the authentication system).
5. If the use of the computing and networking facilities is proven to be incompatible with the educational and scholarly missions of the Institute/University and law of Government, and if the user has been proven to behave irresponsibly, inappropriately and illegally in a manner displaying disruptive and inappropriate conduct that endanger the efficiency, integrity, safety and continuity of networking services; and if the user breaches the rules and regulations set forth in this document, one or more of the following disciplinary actions may be taken as a reasonable response to eliminate threatening and abusive behaviour;
- The user may be warned verbally or with a written notification.
  - Local and/or off-campus network access privileges may be restricted, for a specified term or indefinitely.
  - Local and/or off-campus network access privileges may be suspended, modified or withheld for a specified term or indefinitely.
  - The user codes and user accounts on the central server systems may be terminated for a specified term or indefinitely.

- Disciplinary mechanism of Institute/University such as investigation or prosecution may be initiated by the academic or administrative disciplinary proceedings/committee.
  - judicial proceedings may be started,
  - Any suitable disciplinary action as decided by the authority, depending on :
    - the severity misconduct
    - the magnitude of the resulting damage (on the resources and persons/organizations),
    - recurrence of the misconduct
6. The wireless user, who has been proven to have disregarded or violated the rules and regulations, will be forewarned by the discipline committee. If one or more of the provisions of this policy are violated and IT Resources are inappropriately used, this may result in one or more disciplinary action(s) as stated above.

These rules and regulations become effective as soon as they are publicized. The Institute reserves **the right to amend these Rules and Regulations** at any time without prior notice.

[illegible]





**Institute of Technology, Nirma University**

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