



Samridhi Sarwanik Charitable Trust's
JHULELAL INSTITUTE OF TECHNOLOGY
AN AUTONOMOUS INSTITUTE Affiliated to RTM Nagpur University

Kh.No: 68 & 72, Off Koradi Road, Lonara, Nagpur - 441111.

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Vision: To become an eminent institution through knowledge and research.



ACADEMIC REGULATIONS

Version 1.4

(2026-27)

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1. Preamble

Jhulelal Institute of Technology (JIT), Nagpur, an autonomous institution under Rashtrasant Tukadoji Maharaj Nagpur University, is committed to delivering quality technical education aligned with national priorities and global standards. The Academic Regulations are designed to ensure transparency, flexibility, and outcome-based education in line with the guidelines of statutory bodies.

In alignment with the National Education Policy (NEP) 2020, the Institute adopts a flexible and multidisciplinary approach to undergraduate education, incorporating multiple entry and exit options, Academic Bank of Credits (ABC), and learner-centric pathways.

The Undergraduate Programme is structured as a Four-Year (Eight Semester) degree with provision for exit after three years and continuation into the fourth year leading to the award of UG Honours or UG Honours with Research.

The curriculum emphasizes strong fundamentals, practical exposure, industry interaction, and skill-based learning to enhance employability and innovation.

The fourth year of the programme provides opportunities for advanced specialization, mandatory internship, and research-oriented learning through dissertation work, thereby facilitating progression to higher education and research careers.

The Institute follows Outcome-Based Education (OBE) principles with clearly defined Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs), ensuring continuous improvement through structured feedback mechanisms.

Provision is also made for credit mobility and accumulation through the Academic Bank of Credits, enabling students to earn and transfer credits across recognized platforms including SWAYAM and NPTEL, as per regulatory norms.

These regulations aim to create a dynamic academic framework that supports academic excellence, research orientation, and holistic development of students.

Vision:

- ☐ To become an eminent institution through knowledge and research.

Mission:

- ☐ To produce world class engineers with academic and moral excellence who are not only equipped with cutting edge technological skills but also possess an immense sense of social responsibility.
- ☐ To inculcate awareness and acceptance of ethical values through co-curricular activities for the overall development of students.

Objectives:

- ☐ To be a premier institute for quality education and research in the field of Engineering and Management.
- ☐ To produce technically proficient, quality cognizant engineers imbued with moral and professional ethics.
- ☐ To strengthen interaction with industries and other organizations.
- ☐ To develop various laboratories of departments into centers of excellence.



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2. Abbreviations and Definitions

Abbreviations

Sr. No.	Abbreviation	Full Form
1	ABC	Academic Bank of Credits
2	AC	Academic Council
3	AEC	Ability Enhancement Course
4	AICTE	All India Council for Technical Education
5	BoG	Board of Governors
6	BoS	Board of Studies
7	CAE	Class Assessment Examination
8	CBCS	Choice Based Credit System
9	CGPA	Cumulative Grade Point Average
10	COE	Controller of Examinations
11	CO	Course Outcome
12	CPI	Cumulative Performance Index
13	CTS	Credit Transfer Scheme
14	DSY	Direct Second Year
15	DTE	Directorate of Technical Education
16	EIIC	Entrepreneurship, Innovation and Incubation Cell
17	ESE	End Semester Examination
18	FDP	Faculty Development Program
19	GATE	Graduate Aptitude Test in Engineering
20	HOD	Head of Department
21	ICT	Information and Communication Technology
22	IPR	Intellectual Property Rights
23	JEE	Joint Entrance Examination
24	JIT	Jhulelal Institute of Technology
25	MBA	Master of Business Administration
26	MOOC	Massive Open Online Course
27	M.Tech.	Master of Technology
28	NCC	National Cadet Corps
29	NEP	National Education Policy
30	NISM	National Institute of Securities Markets
31	NMEICT	National Mission on Education through ICT
32	NPTEL	National Programme on Technology Enhanced Learning
33	NSS	National Service Scheme

34	OBE	Outcome-Based Education
35	PE	Professional Elective
36	PG	Postgraduate
37	PO	Programme Outcome
38	PSO	Programme Specific Outcome
39	QEEE	Quality Enhancement in Engineering Education
40	RHTEI	Registered Higher and Technical Education Institution
41	RTMNU	Rashtrasant Tukadoji Maharaj Nagpur University
42	SEC	Skill Enhancement Course
43	SGPA	Semester Grade Point Average
44	SWAYAM	Study Webs of Active Learning for Young Aspiring Minds
45	TAE	Teacher Assessment and Evaluation
46	TC	Transfer Certificate
47	TS	Teaching Scheme
48	UGC	University Grants Commission
49	UG	Undergraduate
50	VLSI	Very Large Scale Integration
51	WoS	Web of Science

Definitions

Sr. No.	Term	Definition
1	Academic Autonomy	Freedom in all aspects of conducting academic programmes, granted by the University for achieving academic excellence.
2	Academic Bank of Credits (ABC)	A national digital repository that enables students to earn, store, transfer, and redeem academic credits from recognized institutions.
3	Academic Year	Two consecutive semesters (one odd and one even) constitute one academic year.
4	Ability Enhancement Course (AEC)	Courses designed to improve communication skills, language proficiency, analytical abilities, and overall personality development.
5	Anti-Requisite Course	Two or more courses that cannot be registered simultaneously during the degree programme.
6	Arrear Course	A course for which the student has completed term work but has not registered for the examination.
7	Autonomous Institution / College	An institution designated as autonomous by UGC under the UGC Act, 1956 and affiliated with RTM Nagpur University.
8	Backlog Course	A course in which a student has appeared for the examination but has not secured a passing grade.

9	Branch	Specialization or discipline of a degree programme such as Computer Science Engineering, Electrical Engineering, Mechanical Engineering, etc.
10	CGPA (Cumulative Grade Point Average)	A measure of the overall cumulative academic performance of a student up to a particular semester.
11	Choice Based Credit System (CBCS)	A flexible academic framework that allows students to choose courses across disciplines and accumulate credits toward degree completion.
12	Co-Requisite Course	Two or more courses that must be registered simultaneously in the same semester.
13	Core Subject	A compulsory course prescribed for all students of a particular programme.
14	Course	A component of a programme designed with specific learning objectives and outcomes. It may include lectures, tutorials, laboratory work, projects, seminars, fieldwork, assignments, internships, self-learning, or a combination thereof.
15	Course Outcome (CO)	Statements describing the specific knowledge, skills, and competencies that students are expected to acquire upon successful completion of a course.
16	Course Registration	Selection and enrollment of courses by a student for a particular academic term.
17	Credit	A unit used to measure course work. One credit is equivalent to one hour of lecture/tutorial or two hours of practical/field work per week per semester.
18	Credit Transfer	Transfer of credits earned from recognized institutions or approved online platforms to a student's academic record.
19	Detained Course	A course in which a student has registered but is not permitted to appear for the examination due to inadequate attendance or incomplete term work.
20	Dropped Course	A course that a student voluntarily withdraws from within the prescribed period after registration.
21	Dropping Term	A semester in which a student does not register for any course despite being eligible to do so.
22	Elective Subject	A course selected from a prescribed list of optional courses offered within or outside the programme.
23	Exam Registration	Formal submission of willingness by a student to appear for an examination.

24	Grade	An index representing a student's level of performance in a credit course.
25	Grade Point	The numerical value assigned to a grade on a ten-point scale.
26	Honors / Minor	Additional specialization pursued through prescribed credits in the major discipline (Honors) or another discipline (Minor).
27	Honors with Research	A four-year undergraduate programme that includes advanced coursework and a substantial research project/dissertation.
28	Internship	Structured practical training undertaken in an industry, organization, or research institution for academic credit.
29	Major Project	A comprehensive project undertaken in the final year to demonstrate the application of knowledge and skills to solve real-world problems.
30	Minor	An additional specialization pursued outside the major discipline by earning prescribed credits.
31	MOOC (Massive Open Online Course)	An online course offered through recognized platforms such as SWAYAM, NPTEL, or equivalent platforms and eligible for academic credit transfer.
32	Multidisciplinary Learning	An educational approach that integrates knowledge and skills from multiple disciplines.
33	Outcome-Based Education (OBE)	An educational framework focused on achieving clearly defined learning outcomes and graduate attributes.
34	Programme Outcome (PO)	Graduate attributes and competencies expected from students upon successful completion of a programme.
35	Programme Specific Outcome (PSO)	Discipline-specific knowledge, skills, and competencies expected from graduates of a particular programme.
36	Research Project / Dissertation	Independent research work undertaken under faculty supervision leading to a thesis, dissertation, publication, or innovative outcome.
37	Self-Learning	Independent learning activities undertaken by students beyond formal classroom instruction.
38	Skill Enhancement Course (SEC)	Courses aimed at developing vocational, professional, entrepreneurial, and employability skills.
39	Term Work	Continuous assessment activities including assignments, practicals, projects, seminars, presentations, and self-learning tasks conducted during a semester.

40	UG Certificate	Qualification awarded upon successful completion of the first year and prescribed credit requirements under the Multiple Entry-Exit framework.
41	UG Diploma	Qualification awarded upon successful completion of the second year and prescribed credit requirements under the Multiple Entry-Exit framework.
42	Vocational Course	A course focused on practical, industry-oriented, employability, entrepreneurship, or skill-based learning outcomes.



3. About Departments

3.1 Department of Applied Science & Humanities

The Department of Applied Sciences and Humanities teaches and promotes practical aspects of Applied Sciences and Humanities to build a solid foundation as part of the Engineering Education. The department imparts the knowledge of fundamental sciences and mathematics to students of all the engineering disciplines as the backbone of engineering and technology is formed by these subjects. So, there is a need to build a strong foundation for the prospective and promising Engineers.

The First Year students are initiated into a unique way of learning and are groomed to take up their roles in society not only as good engineers but as good human beings. A team of dedicated staff members train the students for higher engineering subjects focusing on the academic as well as the overall development through activities like skill development programs, mentoring, one day trips, cultural and sports activities.

Engineering Mathematics, Physics, Chemistry, Communications Skills, Introduction to Programming concepts etc. are the few subjects that are taught through lectures, practicals and tutorials. English Communication skills laboratory is an integral part of the department. Students receive training in written and verbal communication essential to succeed in the workplace.

Some Basic Engineering subjects like “Basics of Electrical and Electronics engineering” builds up the elementary understanding and inclined the students towards developing an engineering mindset. The Department is backed by well-educated, talented and dedicated faculty members to fulfill this task. The teaching staff of the department have published many papers in National and International journals. The subjects taught by teachers of this department are of prime importance for all round growth and development of students.

3.2 Department of Computer Science and Engineering

The department provides students with better computational infrastructure, knowledge in recent & advanced technologies so as to contribute to emerging as one of the best technology departments. The department strives to help students build learning & adaptability in developing technical know-how through collaborative research more. The department is dedicated to fostering innovation, excellence, and creativity in the fields of computer science and engineering. With a focus on cutting-edge technologies, practical skills, and theoretical foundations, the department strives to equip our students with the knowledge and expertise needed to tackle the challenges of the digital era.

The Computer Science and Engineering department provides a dynamic learning environment, state-of-the-art infrastructure, and a team of passionate faculty members who are experts in their respective fields. The Department believes in a hands-on approach to education, combining theoretical concepts with real-world applications, and encouraging students to think critically, solve complex problems, and push the boundaries of technology.

The Computer Science and Engineering department also offers M. Tech. (Computer Science and Engineering) Program & Ph.D Program by Rashtasant Tukdoji Maharaj Nagpur University, Nagpur..

3.3 Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

The department provides students with better computational infrastructure and knowledge of recent & advanced technologies so as to contribute to emerging as one of the best technology departments. The department strives to help students build learning & adaptability in developing technical know-how through collaborative research. In a world driven by data and automation, the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) offers an exciting and transformative academic journey. As a pioneer in the field of Artificial Intelligence and Machine Learning, the department is dedicated to unleashing the full potential of these revolutionary disciplines. The department is a thriving hub of innovation, where students embark on a transformative learning experience that equips them with the knowledge, skills, and expertise to navigate the rapidly evolving landscape of AI and machine learning. With a distinguished faculty at the forefront of research and a state-of-the-art infrastructure, the department provides an environment that cultivates creativity, critical thinking, and hands-on exploration.

3.4 Department of Electrical Engineering

The Department of Electrical Engineering was established in the year 2014-2015. Currently, the department offers an undergraduate degree course in Electrical Engineering. The department has an elite group of faculty members who are dedicated and well experienced in different fields of specialization. The department is fully equipped with the latest systems and apparatus in the Electrical machines, Power Electronics, Network Theory, Internet of Things Applications in Electrical Engineering, Control Systems, Power System Simulation, Embedded Systems, Measurements and Instrumentation laboratories and also deals with Artificial Intelligence applications. The Department has a specialization of Electric Vehicles and Renewable Energy in Projects. The Department faculties encompass all the sub-disciplines of Electrical Engineering and are active in research in all the areas. They also collaborate with the faculty from other disciplines within and outside the institute. Faculty members have published papers in refereed International/National journals and conferences. The Department linked with The Department faculties embrace in Patents, copyrights and other IPR activities. The Department's faculty members have authored several books. Also department faculties involved as a Resource Person at other in FDPs at reputed institutions and Reviewer at IEEE Conferences/Journals. The research activity involves active participation from the students, faculty and the industry. The Department has received research project funds from different funding agencies.

3.5 Department of Electronics and Telecommunication Engineering

Electronics and Telecommunication Engineering is a constantly changing and widening branch of engineering. Increased production and the demand by the government, business community, and corporate world contribute to the growth of employment opportunities in the field. Department of Electronics and Telecommunication Engineering of Jhulelal Institute of Technology, Nagpur is one of the premier departments aimed to provide quality education to the young engineers in the field. The department has excellent infrastructure and the resources in the form of modern equipment, well qualified faculty members, state-of- the-art library which plays an important role in shaping the career of the undergraduate and postgraduate scholars in and around the country. The department plays a pivotal role in laying down road maps in the different research areas such as Power Electronics, RF and Microwave Communications, Signal and Image processing, Microelectronics and VLSI/Embedded Systems.

3.6 Department of Electronics and Communication (Advanced Communication Technology)

The global communications landscape has undergone a sea change, with new technology evolving every day, and out-of-the-box thinking. Terrestrial and satellite communications have long existed for a good number of decades in the past, as independent domains, but the future goes beyond these boundaries – a future of hybridized connectivity, and here's where the graduate course on Electronics and Communication (Advanced Communication Technology), offered by the Jhulelal Institute of Technology an autonomous institute, comes in. Through this course, students are groomed and prepared to make intellectual contributions, embark on a lifelong career of personal and professional growth, and take up specializations at the Postgraduate level. The Electronics and Communication (Advanced Communication Technology) department presents brilliant academic activities in the domains of wireless and optical communication, signal processing and computer vision, wireless sensor networks, big data mining, and cognitive radio, in this program. The students doing this course on Electronics and Communication (Advanced Communication Technology) are trained with the help of a state-of-art Curriculum, which provides the strong foundation that they need for meeting their future responsibilities as leaders and researchers of upcoming communications applications.

3.7 Department of Electronics and Computer Engineering

Due to technological advancements in electronic & computer systems, the demand for skilled electronics engineers with computer knowledge has increased significantly. Electronics and Computer Engineering - a future of hybridized connectivity provides students skills and knowledge to design, develop and test electronic systems software applications. Electronics and computer engineers design and develop intelligent systems using artificial intelligence and machine learning for improving decision making in automation.

The Electronics and Computer Engineering department presents brilliant academic activities in the domains of designing, developing and maintaining complex electronic systems in industries, aerospace, automation and healthcare telecommunications. The department has excellent infrastructure and resources in the form of modern equipments, well qualified faculty members and a modern library which plays an important role in shaping the career of the undergraduate and postgraduate scholars. The students doing this course in Electronics and Computer engineering are trained with the help of a state-of-art Curriculum, which

provides the strong foundation that they need for meeting their future responsibilities as leaders and researchers of upcoming times. Electronics and Computer Engineering is a critical branch of engineering which prepares students to meet the demands of modern industry and contribute to the betterment of society.

3.8 Department of Mechanical Engineering

Throughout human history, engineering has been a driving force behind the advancement of civilization, and mechanical engineering has played a pivotal role in this evolution. The transition from the Stone Age was marked by the metallurgists who pioneered the use of copper and iron, setting the stage for future innovations. Shipbuilders connected disparate parts of the world through enhanced travel and trade, revolutionizing global interaction. The development of increasingly sophisticated agricultural tools and textile production technologies transformed daily life and industry. Mechanical clocks and the printing press introduced fundamental changes in how people measured time and disseminated information.

In more recent times, the Industrial Revolution represents a monumental leap, with mechanical engineering at its heart. This era saw machines take over many human tasks, amplifying productivity and reshaping labor dynamics. The steam engine, a hallmark of mechanical ingenuity, powered advancements in mining, transportation via trains and ships, and fundamentally altered various industries. Additionally, improved sanitation systems, a product of engineering innovations, significantly boosted public health in the Western world. Mechanical engineering continues to drive progress, reflecting its integral role in shaping modern civilization.

3.9 Department of Computer Science and Engineering (Artificial Intelligence and Data Science Engineering)

The Department of Computer Science and Engineering (Artificial Intelligence and Data Science) was established to address the growing demand for professionals skilled in AI and data-driven technologies. With the increasing impact of intelligent systems and big data across industries, this department aims to provide students with a strong foundation in core computer science subjects while offering specialized training in artificial intelligence, machine learning, data analytics, and related domains.

From the academic year 2026–27, the department has an approved intake of 180 students, enabling a larger number of aspiring technologists to gain access to cutting-edge education in

this rapidly evolving field. The curriculum is designed to balance theory with hands-on experience, integrating project-based learning, industry internships, and research opportunities.

3.9 Department of Business Administration

The Department of Business Administration was established in 2009. Currently, the Department offers a Master of Business Administration (MBA) full-time Post- Graduate Program specializing in Finance, Marketing, Operations, Human Resource Management, and Business Analytics with a sanctioned intake of 240 seats. We, at JIT strive to meet the growing requirements of updated management education with innovation and a constructive approach. Programme provides a good blend of theoretical knowledge coupled with practical result-oriented training. The Department has a dedicated Training and Placement Cell with a good placement ratio of students. The Department is recognised as a Ph.D. Research Centre by Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.



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4. Programmes Offered (UG/PG)

Course Level	Sr. No	Course		Intake (2024-25)	Intake (2025-26)	Intake (2026-27)
Undergraduate	1	CS	B.Tech in Computer Science and Engineering	180	180	180
	2	AI	B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)	180	180	180
	3	DS	B.Tech in Computer Science and Engineering (Artificial Intelligence and Data Science)	-	120	180
	4	EE	B.Tech in Electrical Engineering	60	60	60
	5	ER	B.Tech in Electronics and Computer Engineering	60	60	120
	6	EC	B.Tech in Electronics and Communication (Advanced Communication Technology)	60	60	-
	7	ME	B.Tech in Mechanical Engineering	30	60	60
Post Graduate	1	MB	Master of Business Administration	120	180	240
	2	MC	M.Tech in Computer Science and Engineering	24	24	24
	3	MV	M.Tech in VLSI	24	24	24



5. Programme Structure

The Undergraduate Programmes offered by Jhulelal Institute of Technology (JIT), Nagpur shall be designed in accordance with Outcome-Based Education (OBE) principles and university guidelines.

As per NEP 2020, the Undergraduate Programme shall be of Four Years (Eight Semesters) duration.

The curriculum shall consist of core courses, electives, multidisciplinary courses, ability enhancement courses, and practical components such as laboratory work, projects, and internships.

5.1 Programme Duration

The normal duration of the Undergraduate Programme shall be four academic years (eight semesters).

5.2 Multiple Entry and Exit Options

Students shall be permitted multiple entry and exit options as per NEP 2020 guidelines:

- (a) After successful completion of First Year (2 Semesters): Exit with Certificate (if applicable as per university norms)
- (b) After successful completion of Second Year (4 Semesters): Exit with Diploma (if applicable)
- (c) After successful completion of Third Year (6 Semesters): Exit with UG Degree
- (d) After successful completion of Fourth Year (8 Semesters): Award of UG Honours or UG Honours with Research Degree

5.3 Academic Pathways

The following academic pathways shall be available to students:

- (a) Single Major (Regular UG Degree)

- (b) Major with Minor
- (c) UG Honours
- (d) UG Honours with Research
- (e) Double Minor

5.4 Structure of Fourth Year

The fourth year shall provide advanced learning and shall include the following options:

- (a) UG Honours:

Advanced courses in the major discipline

Mandatory Internship (minimum 4 credits)

- (b) UG Honours with Research:

Advanced courses in the major discipline

Research Project / Dissertation (minimum 12 credits)

5.5 Flexibility in Progression

A student enrolled in the four-year programme may choose to exit after three years with a UG Degree or continue to the fourth year based on eligibility and institutional provisions.

Students opting for UG Honours with Research shall meet the prescribed academic performance criteria and availability of research supervision.

5.6 Interdisciplinary and Multidisciplinary Learning

The curriculum shall provide flexibility to choose courses across disciplines, enabling holistic and multidisciplinary education.

5.7 Academic Bank of Credits (ABC)

All students shall register under the Academic Bank of Credits (ABC) and accumulate credits as per NEP guidelines. Credits may be earned through approved platforms and transferred as per equivalence norms.



6. Credit System

The credit system is a systematic way of describing an educational programme by attaching credits to its components. Credits represent the weightage of a course in terms of teaching-learning hours and student effort required for successful completion.

The Institute shall follow a Choice Based Credit System (CBCS) aligned with NEP 2020, ensuring flexibility, multidisciplinary learning, and credit mobility.

6.1 Credit Definition

One credit shall correspond to the following:

- 1 hour of lecture/tutorial per week
- 2 hours of practical/laboratory work per week

6.2 Credit Requirements

The minimum credit requirements for award of degrees shall be as follows:

- (a) UG Degree (after 3-Year exit): 120–132 Credits
- (b) UG Honours Degree (4-Year): 160–176 Credits (including Internship)
- (c) UG Honours with Research (4-Year): 160–176 Credits + 12 Credits Dissertation/Research Project

6.3 Credit Distribution

The curriculum shall include the following components:

- Core Courses (Professional and Basic Sciences)
- Professional Electives
- Open Electives / Multidisciplinary Courses

Ability Enhancement Courses (AEC)

Skill Enhancement Courses (SEC)

Project Work / Internship

The fourth year shall emphasize advanced courses, internship, and research components as applicable.

6.4 Internship Credits

Students opting for UG Honours Degree shall complete a mandatory internship of minimum 4 credits.

The internship shall be evaluated based on:

Industry/Organization Feedback

Internship Report

Presentation / Viva Voce

6.5 Research Project Credits

Students opting for UG Honours with Research shall undertake a Research Project/Dissertation of minimum 12 credits in the final year.

Evaluation shall include:

Proposal Approval

Periodic Progress Reviews

Final Dissertation Submission

Viva Voce Examination

6.6 Online and Blended Learning Credits

Students may earn up to 40% of total credits through approved online platforms such as SWAYAM, NPTEL, or other recognized MOOC platforms, subject to approval by the Board of Studies (BOS).

6.7 Academic Bank of Credits (ABC)

All credits earned by students shall be deposited in the Academic Bank of Credits (ABC).

Credits may be accumulated, transferred, and redeemed as per NEP 2020 guidelines and UGC norms.

6.8 Credit Transfer and Mobility

Students shall be permitted to transfer credits earned from recognized institutions or online platforms, subject to equivalence and approval by competent authorities.

6.9 Maximum and Minimum Credits per Semester

The number of credits per semester shall normally be within a prescribed range as decided by the Institute.

Flexibility shall be provided to students to register for additional or fewer credits within permissible limits, as per academic performance and institutional norms.



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7. Academic Marks Policy for UG (Theory, Practical, Project & Incentives)

Evaluation of Theory Course		
Continuous Assessment	End Semester Examination	Total Marks
40	60	100
20	30	50

Evaluation of NPTEL Course		
Continuous Assessment	End Semester Examination	Total Marks
25	75	100

Continuous Assessment					
CAE-I (80% Subjective + 20% Objective Questions)	CAE-II (80% Subjective + 20% Objective Questions)	TAE-I	TA0000 00E-II	Term Work + Self- Learning (TW+SL)	Total Marks
15	15	3	3	4	40
6	6	2	2	4	20

Teacher Assessment and Evaluation

(Minimum 2 set of activities, each activity max 2 or 3 marks, Activities should not be repeated for the same set of students)

Assignments, Case Study, Poster Presentation, Individual Subject topic Presentation, Open Book Test, Puzzles, Any subject specific activity, Video Assessments, Group Activity (Guest Lecture, Workshop, Debate, Discussion, NPTEL Video understanding, Role-Playing, Quizzes and Polls), Drill and Practice, etc...[Allot marks with proportionate]

Evaluation of Practical		
Continuous Evaluation	End Semester Examination	Total Marks
25	25	50
50	50	100

Continuous Evaluation of Practical (25 Marks)				
Write-up	Performance	Result & Interpretation	VIVA	Total
3	2	3	2	10*
6	4	6	4	20*

* Average of minimum 10-14 practicals has to be considered for calculating internal practical marks out of 10.

Internal Practical Examination				
Write-up	Performance	Result & Interpretation	VIVA	Total
3	4	3	5	15
6	8	6	10	30

End Semester Practical Examination (25 Marks)				
Write-up	Performance	Result & Interpretation	VIVA	Total
5	5	5	10	25
10	10	10	20	50

Mini Project / Third Semester Community Engineering Project (50 Marks)				
Synopsis	Seminar–I	Seminar–II	Project Submission (Canvas, Poster & Report)	Total
10	10	10	20	50

Note- Students or project groups who win the project competition will be awarded 10 marks as an incentive in their internal assessments.

Major Project							
Phase I	Abstract / Synopsis	Introductory Seminar	Progress Seminar	Final Phase – I Project Seminar	Review Paper Publication	Participation in Project Competition	Total
	10	10	10	20	15	10	75
Phase II	Progress Seminar	Pre submission Seminar	Final submission Seminar	Participation in Project Competition	Project Completion (Submission of Hardware / software project, Poster, Thesis etc.)	Final Paper Publication and Patent Filing	Total
	10	10	10	10	20	15	75
Note- Students or project groups who win the project competition will be awarded 10 marks as an incentive in their internal assessments.							

Evaluation of Industrial Internship		
Continuous Evaluation	End Semester Examination	Total Marks
150	150	300

Continuous Evaluation - Industrial Internship (150 Marks)		
Sr. No.	Particular	Marks
1	Daily Diary / Logbook	40
2	Attendance & Discipline	30
3	Internal Guide Assessment	40
4	Mid-Term Review / Presentation	40
TOTAL		150
End Semester Examination - Industrial Internship (150 Marks)		
1	Industry Mentor Evaluation	50
2	Final Internship Report	50
3	Final Viva-Voce / Presentation	50
TOTAL		150

Over and Above Marks (Max 50 Marks per semester) (Max 2 different Activities per Category)						
Category	T1		T2		T3	
Technical Event Participation	IIT/ IIIT/ NIT/ Govt. Universities		Autonomous/NBA/NAAC Accredited Institutes		Any other Institute than T1 and T2	
	Winner	Participation	Winner	Participation	Winner	Participation
	15	10	12	8	10	6
Research	Patent		Research Publication		Copyright	Conference
	Granted	Published	WoS, Scopus	Any Other (UGC)	Published	Presentation
	15	10	12	8	5	5
Internship & Placement	Placement		Internship with stipend		Internship without stipend	
	20		15		5	
Skill Courses / Competitive Exam	Competitive Exam (GATE/CAT/MPSC/ JAT, etc.)		Other Online Exam MOOC		NSDL Certification Level 5 & above	
	Qualified	Participation	Qualified	Participation	10	
	15	10	12	8		
Entrepreneurship (Stage to be certified by EIIC)	Stage 6	Stage 5	Stage 4	Stage 3	Stage 2	Stage 1
	15	12	10	8	6	4
Student Participation	Received Fund / Sponsorship for Activity		Secured Top 5 Position in Previous Results at Institute		NCC/NSS/SRC Office Bearer	
	15		10		5 per Activity	
Sports	International/National/ State (Participation/Rank)		Zonal/Intercollegiate Rank		Zonal/Intercollegiate Participation	
	25		20		10	

1. Over and above Maximum 5 marks in each subject (Applicable for Theory/Practical/Project) will be awarded only upto maximum internal marks.
2. Process for permission & other formalities should be done through respective portfolios in-charge.
3. Submission of relevant certificates/ proof in person to respective portfolio in-charge.
4. Subjects, which have different marking schemes, may apply proportional marking schemes.



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8. Academic Marks Policy for PG (Theory, Practical, Project & Incentives)

Evaluation of Theory Course		
Continuous Assessment	End Semester Examination	Total Marks
40	60	100
20	30	50

Evaluation of NPTEL Course		
Continuous Assessment	End Semester Examination	Total Marks
25	75	100

Continuous Assessment					
CAE-I (80% Subjective + 20% Objective Questions)	CAE-II (80% Subjective + 20% Objective Questions)	TAE-I	TAE-II	Term Work + Self- Learning (TW+SL)	Total Marks
8	8	8	8	8	40
4	4	4	4	4	20

Evaluation of Practical		
Continuous Evaluation	End Semester Examination	Total Marks
25	25	50
50	50	100

Continuous Evaluation of Practical				
Write-up	Performance	Result & Interpretation	VIVA	Total
3	2	3	2	10*
6	4	6	4	20*

* Average of minimum 10-14 practicals has to be considered for calculating internal practical marks out of 10 or 20.

Internal Practical Examination				
Write-up	Performance	Result & Interpretation	VIVA	Total
3	4	3	5	15
6	8	6	10	30

End Semester Practical Examination				
Write-up	Performance	Result & Interpretation	VIVA	Total
5	5	5	10	25
10	10	10	20	50

Continuous Evaluation of M.Tech Final Year Major Project							
Phase I	Synopsis Submission	Introductory Seminar	Progress Seminar	Final Phase – I Project Report	Survey Paper Publication (Scopus only)		Total
	10	5	5	10	20		50
Phase II	Progress Seminar	Pre submission Seminar	Final submission Seminar	Participation in Project Competition	Project Completion (Submission of Hardware/software project, Poster, Thesis etc.)	Final Paper Publication (Scopus/UGC only) and Patent Filing	Total
	10	10	20	30	50	30	150

Note- Students or project groups who win the project competition will be awarded 10 marks as an incentive in their internal assessments.

End Semester Evaluation M.Tech				
Phase I	Write-up	Presentation	Viva	Total
	10	20	20	50
Phase II	Write-up	Presentation	Viva	Total
	25	100	25	150

M.B.A Final Year Major Project							
Capstone Project	Synopsis Submission	Progress Seminars	Final Paper Publication (Scopus/ Peer reviewed/AB DC)	Project Thesis/ Report Submission	End Sem Evaluation Presentation	End Sem-Evaluation-Viva	Total
	10	10	10	20	30	20	100

Evaluation of M.B.A Final Year Project		
Continuous Evaluation	End Semester Evaluation	Total Marks
50	50	100

Continuous Evaluation of M.B.A Final Year Project

Synopsis Submission	Progress Seminars	Final Paper Publication (Scopus/ Peer reviewed/ABDC)	Project Thesis/Report Submission	Total
10	10	10	20	50

End Semester Evaluation of MBA Final year Project

Presentation	Viva	Total
30	20	50

Evaluation of MBA Final Year Internship

Continuous Evaluation	End Semester Evaluation	Total
50	50	100

Continuous Evaluation of MBA Final Year Internship (100 Marks)

Introductory Seminar	Progress Seminar	Viva	Total
10	10	30	50

End Semester Evaluation of MBA Final Year Internship (50 Marks)

Internship Report Submission	Viva	Total
30	20	50

Over and Above Marks (Max 50 Marks per semester)
(Max 2 different Activities per Category)

Category	T1		T2		T3	
Technical Event Participation	IMT/IIM/Symbiosis		Autonomous/NBA/N AAC Accredited Institutes		Any Other Institute than T1 & T2	
(Case study presentation, Debate competition, Group Discussion, Project presentation, Start up idea discussion)	Winner	Participation	Winner	Participation	Winner	Participation
	15	10	12	8	10	6
Research	Patent		Research Publication		Copyr-ight	Conference
	Gran ted	Published	Scopus	UGC Journal	Published	Presentation
	15	10	12	8	5	5
Internship & Placement	Placement		Internship with Stipend		Internship without stipend	
	20		15		5	

Skill courses/Competitive Exam	(Competitive Exam NET/SET/PET/UPSC/ MPSC)		Online Course		NISM/Equal weight age Certification		
	Qualified	Participation	Qualified	Participation	10		
	15	10	12	8			
Entrepreneurship (Stage to be certified by EIIC)	Stage 6	Stage 5		Stage 4	Stage 3	Stage 2	Stage 1
	15	12		10	8	6	4
Student Participation	Received Fund / Sponsorship for activity		Session in industry as a trainer		Peer Learning (Session Delivery)		
	15		10		5		
Sports	International/National/ State (Participation/Rank)			Zonal/Intercollegiate Rank		Zonal/Intercollegiate Participation	
	25			20		10	

1. Over and above Maximum 5 marks in each subject (Applicable for Theory/Practical/Project) will be awarded only upto maximum internal marks.
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9. Regulations for Program & Course Code

Program & Course Code for UG

Year	Range of Code	Semester Wise Code
Applied Science & Humanities	100 to 199	Semester I: 100 to 149
		Semester II: 150 to 199
Second Year	200 to 299	Semester III: 200 to 249
		Semester VI: 250 to 299
Third Year	300 to 399	Semester V: 300 to 349
		Semester VI: 350 to 399
Final Year	400 to 499	Semester VII: 400 to 449
		Semester VIII: 450 to 499

Program & Course Code for PG

Year	Range of Code	Semester Wise Code
First Year	500 to 599	Semester I: 500 to 549
		Semester II: 550 to 599
Second Year	600 to 699	Semester III: 600 to 649
		Semester VI: 650 to 699

Format : XX YY ZZZ W**AS BS 100 T**

XX	YY	ZZZ	W
AS: Applied Science & Humanities ET: Electronics & Telecommunication CS: Computer Science & Engineering AI: Computer Science & Engineering (Artificial Intelligence & Machine Learning) DS: Computer Science & Engineering (Artificial Intelligence & Data Science) EE: Electrical Engineering ME: Mechanical Engineering EC: Advance Electronics Communication ER: Electronics & Computer Engineering MB: Master of Business Administration MV: M.Tech (VLSI) MC: M.Tech (Computer Science Engineering)	BS: Basic Science Course PC: Programme Core Course PE: Programme Elective Course MD: Multi Disciplinary Minor OE: Open Elective VS: Vocational & Skill Enhancement Course AE: Ability Enhancement Course HM: Humanities Social Science & Management IK: Indian Knowledge System VEC: Value Education Course RM: Research Methodology CP: Community Engg. Project MP: Major Project CC: Co-Curricular Courses OT: Internship / On Job Training HO: Course for Honour HR: Course for Honour with Research DM: Course for Double Minor EC: Exit Credit Course	as per given in table Program & Course Code for UG & PG	T : Theory P : Practical



10. Regulations for Promotion Rule

1. For being eligible to register for Semester III, students must have secured at least 50% of the total credits (rounded off to nearest lower integer) in first year (Semester I & II together).
2. For being eligible to register for Semester V, students must have completed successfully all courses & earned all the credits offered in first year and secured at least 50% of the total credits (rounded off to nearest lower integer) in second year (Semester III & IV together).
3. For being eligible to register for Semester VII, students must have completed successfully all courses & earned all the credits offered in first & second year and secured at least 50% of the total credits (rounded off to nearest lower integer) in third year (Semester V & VI together).



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11. Regulations for Attendance, Absence, Leave Rules, Detention and Dismissals

1. A student must have an overall 75 % attendance of the total number of classes including lectures/ tutorials and practicals / NCC / NSS / guest lecture/field project/activities/internship/industrial visits/Games & Sports / Yoga/etc scheduled for them.
2. Shortage of attendance up to 15% i.e., attendance between 60% to 75% in aggregate, may be condoned by the Institute Academic Committee. Shortage of attendance below 60 % shall in no case be condoned.



12. Regulations for Multiple Entry and Exit Path and Lateral Entry

12.1 Multiple Exits

Students will have the flexibility to enter a programme in odd semesters and exit a programme after the successful completion of even semesters as per their future career needs. Exit options shall be provided with Certification, Diploma and B. Vocational degrees to the students at the end of the second, fourth and sixth semester, respectively, in the four-year degree programme. Students will receive a Bachelor's degree with the single minor on successfully completing all eight semesters of the UG Programmes either at a stretch or with opted exits and re-entries. In addition to this, students will receive a Bachelor's degree with Double Minor/Honors/ Research subject to earning additional 20 credits.

1. Students exiting the First Year programme after securing minimum 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 8 credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to 4 credits from skill-based courses earned during the first and second semester.
2. Students exiting the Second Year Programme after securing minimum 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc) offered during summer vacation after the second year.
3. Students exiting the 3-year UG program will be awarded B. Vocational in the relevant Discipline /Subject upon securing minimum 120 credits with additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc.) offered during summer vacation after the sixth semester.

12.2 Re-entry or Lateral Entry

Students, opting for exits at any level, will have the option to re-enter the programme from where they had left off, in the same or in a different higher education institution within four years of exit and complete the degree programme within the stipulated maximum period of eight years from the date of admission to first year UG. Re-entry at various levels for lateral entrants in academic programmes shall be based on the earned and valid credits as deposited and accumulated in the Academic Bank of Credits (ABC) through Registered Higher & Technical Education Institutions (RHTEI) and proficiency test records.

Lateral entry into the programme of study leading to the UG Diploma/ B. Vocational/ UG Bachelor's Degree with single minor/ UG Bachelor's Degree with Double Minor/ Honors /Research will be based on the validation of prior learning outcomes achieved and subject to availability based on intake capacity.

Eligibility for admission to the UG Bachelor's Degree with Double Minor/ Honors /Research as per UGC guidelines: Minimum CGPA/CPI of 7.5 or minimum 75% after second semester for UG Bachelor's Degree with Double Minor/ Honors and Minimum CGPA/CPI of 7.5 or minimum 75% after sixth semester for UG Bachelor's Degree with Research.



13. Regulations for Honors, Honors with Research, Double Minor

Apart from the minimum credit requirements of 160 for the award of the undergraduate engineering degree, these schemes provide opportunities for supplementing the learning experience by crediting additional courses, in parent as well as in diverse areas. These additional credits when they are in a focused branch would earn the students credentials like Honours, Honours with Research, Double Minor.

Honors scheme aims for vertical knowledge growth in his/her own branch, which may have research orientation while Minor scheme aims for additional knowledge in any other branch for enhancement of employability. On successful completion of the requirements of Honours, Honours with Research, Double Minor schemes, the UG students shall be awarded a Certificate by JIT.

Participation of students in these schemes shall not be mandatory. Aspiring students will register for additional theory courses and acquire additional 20 credits for any one of the three schemes.

A student opting for 'Honors' will not be entitled to register for 'Minor' and vice-versa. It is expected that the students with good academic standing, utilize their surplus time for enhancing their academic learning experience and gain a wide exposure.

Additional Credits for Bachelor's Degree- with Honours: 20 Credits

These are additional credits to be offered from the second year to the final year and will be offered as an option to students.

Under Bachelor's Engg./ Tech. Degree in chosen Major Engg./ Tech. With a Multidisciplinary and Specialization Major, 180 credits, students would take up five-six

additional courses of 20 credits in the same Engg./ Tech. discipline distributed over semesters III to VIII.

The decision regarding the mechanism of distribution of these 20 credits over semesters III to VIII, which are over and above the 160 Credits prescribed for Four Year Multidisciplinary Bachelor's Degree in Engg./ Tech., will be taken by JIT.

Additional Credits for Bachelor's Degree- Honours with Research: Minimum 20 Credits

These are additional credits to be offered in the final year and will be offered as an option to students. The UGC Regulations, 2021 permit up to 40% of the total courses being offered in a particular programme in a semester through the Online Learning Courses offered through the SWAYAM platform and/or other State Level Common Platforms which can be developed in due course with the participation of different Universities.

Under Bachelor's Engg./ Tech. Honours with Research Degree in chosen Major Engg./ Tech. Disciplined with Multidisciplinary Minor (180 credits), the students will work on a research project from a research center or dissertation for 20 credits in the fourth year in the respective Major Engg./ Tech. Discipline.

The decision regarding the distribution of 20 credits for the Research Project in Semesters VII and VIII of the Fourth Year will be taken by Academic Authorities of JIT. These 20 Credits will be over and above the 160 Credits prescribed for Four Year Multidisciplinary Bachelor's Degree in Engg./ Tech. Program.

Additional Credits for Bachelor's Degree- with Double Minor: 20 Credits

These are additional credits to be offered from the second year to the final year and will be offered as an option to students.

Under Bachelor's Engg./ Tech. Degree in chosen Major Engg./ Tech. Disciplined with Double Minor (Multidisciplinary and Specialization Minor, 180 credits), students would take up five-six additional courses of 20 credits in another Engg./ Tech. discipline/ Emerging Areas Specialization distributed over semesters III to VIII.

The decision regarding the mechanism of distribution of these 20 credits over semesters III to VIII, which are over and above the min.160 Credits prescribed for Four Year Multidisciplinary Bachelor's Degree in Engg./ Tech., will be taken by JIT.

Duration of Program with Honors

All requirements of the program and Honours, Honours with Research, Double Minor have to be completed within the stipulated period of the original program for UG students who were admitted in First Year or through lateral entry in second year of the program. No additional period will be permitted.

If a student is unable to earn additional 20 credits along with all the prescribed credits of the parent program within the stipulated allowed duration of the parent program, he/she will not be awarded Honours, Honours with Research, Double Minor.

The Honours, Honours with Research, Double Minor courses completed if any by such students shall not be adjusted or converted into program credits anywhere in the 160 credits structure of the original curriculum of the program in which they were admitted and such additional credits will remain extra.



14. Regulations for Online Credit Courses through MOOC Platforms

Students of Jhulelal Institute of Technology shall undertake approved online credit courses offered through recognized MOOC platforms such as SWAYAM and NPTEL, in accordance with UGC and AICTE guidelines. The selected courses must align with the program curriculum and shall be chosen under departmental guidance. Faculty support will be provided to ensure effective engagement and successful completion of the course. The institution encourages the integration of MOOC-based learning to broaden academic exposure and strengthen understanding of emerging domains.

Registration(Exam) for the MOOC course prescribed in the curriculum is compulsory, and students who do not register for the mandated MOOC shall not be permitted to appear for the regular or resit examinations of the corresponding course. If a student is permitted to appear for a supplementary examination in a MOOC-designated course, the required continuous assessment shall be conducted internally by the institute. In cases where students complete their admission process after the closure of the MOOC registration window, the continuous assessment shall also be conducted internally, and such students shall be permitted to appear for the regular examination. Students who register for the prescribed MOOC but fail in the MOOC-based internal assessment shall undergo an internal assessment conducted by the institute. Students who register for the MOOC but fail in the external assessment shall be permitted to appear for the regular and resit examinations as per institute norms.



15 . Regulations for Amendment of Rules & Regulations

JIT may, from time to time revise, amend or change the regulations, scheme of examinations and syllabus if found necessary. Notwithstanding all that has been stated above, the Chairman, Academic Council is vested with powers to modify any or all of the above regulations from time to time, if required, subject to the approval by the Governing Body.



16. Regulations for Emergent Cases

Notwithstanding anything contained in the above regulations, the Chairman of the Governing Body / Academic Council may, in emergent situations can or may take action on behalf of the Governing Body / Academic Council, as he deems appropriate and report it to the next meeting of the Governing Body / Academic Council for its approval.