



JYOTHI ENGINEERING COLLEGE

(AUTONOMOUS)

Jyothi Hills, Panjal Road, Vettikattiri, Cheruthuruthy

Thrissur, Kerala – 679 531, India

Lead Kindly Light • Creating Technology Leaders of Tomorrow • Estd. 2002

Affiliated to

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

(A State Government University, Kerala)



BACHELOR OF TECHNOLOGY (REGULAR)

ACADEMIC REGULATIONS

2026

Effective from Academic Year 2026 – 2027

*Approved by the Academic Council,
Jyothi Engineering College (Autonomous)*

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Approved by the Academic Council at its meeting held on 29 June 2026.

Jyothi Engineering College (Autonomous), Version 3.0

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PREAMBLE

Jyothi Engineering College (Autonomous), Cheruthuruthy, Thrissur, Kerala – 679531 (hereinafter referred to as 'the College'), is a college affiliated to APJ Abdul Kalam Technological University (APJAKTU) and has been granted autonomous status by the University Grants Commission (UGC) and the Government of Kerala. By virtue of this autonomy, the College is empowered to design its own curriculum, conduct its own examinations, and evaluate students independently, while degrees continue to be awarded by APJAKTU.

In exercise of the powers conferred by its autonomous status and in accordance with the guidelines of UGC, AICTE, and APJAKTU, the Academic Council of Jyothi Engineering College (Autonomous) hereby frames the Jyothi Engineering College Bachelor of Technology (Regular) Academic Regulations, 2026 (hereinafter referred to as 'JEC B. Tech Regulations 2026').

These regulations are aligned with the APJAKTU B.Tech Academic Regulations 2024 framework, adapted to reflect the academic autonomy, institutional practices, and quality benchmarks of the College. The degree conferred at the conclusion of the program shall be the Bachelor of Technology Degree awarded by APJ Abdul Kalam Technological University.

1. GENERAL

R 1.1 Short Title – These Regulations shall be called 'Jyothi Engineering College (Autonomous) Bachelor of Technology (Regular) Academic Regulations, 2026'.

R 1.2 Commencement – These Regulations shall come into force from the academic year 2026–2027 and shall apply to all students admitted to B.Tech programmes at Jyothi Engineering College (Autonomous) from that year onwards.

R 1.3 Scope – These regulations govern the policies and procedures for admission, course registration, conduct of examinations, evaluation, and certification of student performance, leading to the award of the B.Tech Degree by APJAKTU.

R 1.4 Authority of Academic Council – The Academic Council of Jyothi Engineering College (Autonomous) shall be the supreme academic body with authority to modify, amend, or revoke these regulations, subject to the guidelines of UGC, AICTE, and APJAKTU.

R 1.5 Binding Nature – These regulations and any amendments thereto shall be binding on all students, faculty, staff, and the management of the College from the academic year 2026-2027 onwards.

R 1.6 Applicability to New Programmes – These regulations shall apply to any new B.Tech programme(s) introduced by the College in the future.

R 1.7 Decision of College Academic Council – In all matters contained in these regulations, the decision of the Academic Council as recommended by the relevant statutory and collegiate bodies shall be final, subject to the overarching authority of APJAKTU.

1.1 Definitions

For the purposes of these Regulations:

- 'Act' means the APJ Abdul Kalam Technological University Act, 2015;
- 'Academic Calendar' means the official schedule published by the College detailing commencement and conclusion of classes, examinations, and events;
- 'Academic Council' means the Academic Council of Jyothi Engineering College (Autonomous);
- 'Academic Year' means the cycle consisting of an Odd Semester, an Even Semester
- 'AICTE' means the All India Council for Technical Education;
- 'APJAKTU' or 'University' means APJ Abdul Kalam Technological University;
- 'BoS' means the Board of Studies of the College constituted for each programme/discipline;
- 'CGPA' means Cumulative Grade Point Average;
- 'CIE' means Continuous Internal Evaluation assessed for every course during the semester;
- 'College' means Jyothi Engineering College (Autonomous), Cheruthuruthi, Thrissur;
- 'Course' means a theory, project, or practical subject included in the curriculum;
- 'Discipline' means a specific branch of the B.Tech programme;
- 'ESE' means the End Semester Examination conducted by the College under its autonomous status;
- 'Grade Card' means the document issued to each student containing course codes, titles, grades, grade points, and SGPA;
- 'SGPA' means Semester Grade Point Average;
- 'UGC' means the University Grants Commission;

2. ADMISSION

R 2.1 Admission policies, eligibility criteria, and procedures for admission shall be determined by the Government of Kerala, APJAKTU, AICTE, UGC and other appropriate statutory/regulatory authorities, in conjunction with the College's admission policy as an autonomous institution.

R 2.2 If at any time after admission it is found that a candidate has not fulfilled any of the requirements stipulated by the University, UGC, AICTE, or the College, the Principal may revoke the admission and report the matter to the Academic Council and APJAKTU.

R 2.3 Restriction on Branch Change – No student shall be permitted to change the branch of study to which they were admitted after the closure of the admission process.

R 2.4 A student admitted to the College shall continue their studies at the College until the completion of the program, unless granted an inter-college transfer as per Regulations 2026.

3. STRUCTURE OF THE B.TECH PROGRAMME

R 3.1 Duration – The B.Tech Programme shall be of 4 years (8 semesters) duration.

3.1 Programme Options and Credit Requirements

Programme Option	Total Credits	Composition
B.Tech in Engineering Major Discipline	170 Credits	167 Academic Credits + 3 Activity Credits
B.Tech with Minor	185 Credits	170 Credits + 15 Credits for Minor
B.Tech with Honours	185 Credits	170 Credits + 15 Credits for Honours
B.Tech with Honours and Minor	200 Credits	170 Credits + 15 Honours + 15 Minor

R 3.2 Credit Relaxation Policy – Students who acquire at least 160 credits (157 academic credits + 3 mandatory activity credits) after the completion of the normal eight-semester duration shall be eligible for the B.Tech Degree. This credit relaxation does not apply to Seminar, Mini Project, and Project/Internship, which are mandatory. A grade point of '0' will be assigned to courses where credits are not earned under this policy.

R 3.3 Credit Consideration for B.Tech Degree – Additional credits from Honours theory courses may be considered towards fulfilling the 170-credit or 160-credit requirements, subject to conditions. Students availing this provision shall not be eligible for B.Tech with Honours.

3.2 Academic Year Structure

R 3.4 Each Academic Year shall include an Odd Semester, an Even Semester, and a Summer Semester. The Summer Semester is scheduled during May–June and provides opportunities for internships or skill enhancement courses.

R 3.5 Minimum Working Days – Each semester shall have a minimum of 90 working days, of which at least 65 shall be instructional days. The College shall reschedule lost instructional days within the same semester, including Saturdays, as required.

3.3 Academic Calendar

R 3.6 The College shall publish an Academic Calendar detailing the major academic activities for each semester. The Academic Calendar shall include:

- Commencement and completion dates of each semester
- Semester enrolment and course selection dates
- Schedule of Internal Examinations (CIA I, CIA II, Model Examination)
- Dates for publication of attendance and internal marks
- Schedule of End Semester Examinations
- Extra-curricular and co-curricular activity dates
- Submission dates for student activity points
- Dates of Internal and External Academic Audits
- Internship and vacation dates

R 3.7 Timely Completion of Portal Activities – The College shall strictly adhere to APJAKTU portal-related timelines. The Principal is responsible for ensuring all portal activities are completed within prescribed deadlines.

3.4 Curriculum and Course Structure

R 3.8 Each B.Tech branch shall have a curriculum and syllabi approved by the College's Board of Studies and Academic Council, and ratified by APJAKTU as required under autonomous college norms.

R 3.9 Syllabus Revision – The syllabus for any course shall ordinarily be revised once every **five years**. Modifications to core courses shall not exceed 30%. All revisions shall be made on the recommendation of the relevant BoS and with the approval of the Academic Council.

Note – Feedback from graduates, collected approximately one year after graduation (after completion of one batch), shall be an important input for future curriculum revisions.

3.5 Credit System

R 3.10 The academic programmes of the College are based on a credit system. The curriculum for any B.Tech branch shall comprise a total of 170 credits (167 academic credits + 3 mandatory student activity-based credits). The credit allocation pattern is:

Activity	Credits
1 Hour of Lecture (L) per week	1 Credit
1 Hour of Tutorial (T) per week	1 Credit
2 Hours of Practical (P) / Project (R) per week	1 Credit
4 Hours of Seminar (S) / Practical / Project per week	2 Credits
1 Project Hour (R) in PBL per week	1 Credit

3.6 Course Categories *

R 3.11 Each course within the B.Tech Programme shall be categorized as follows:

SL	Category	Code	Credits
1	Basic Science Courses	BS	21
2	Engineering Science Courses	ES	28
3	Humanities & Social Sciences incl. Management	HM	10
4	Programme Core Courses (incl. PBL & Laboratory Courses)	PC	61
5	Programme Elective Courses	PE	20
6	Open Elective / Industry Linked Elective	OE/IE	8
7	Mini Project, Project Work / Internship, Seminar	PI	13
8	Indian Knowledge System	IK	2
9	Skill Enhancement Courses	SE	3
10	Health and Wellness	HW	1

Sl.	Category	Code	Credits
	Total Academic Credits		167

	Credits
Total Academic Credits	167
Mandatory Student Activities	3
TOTAL PROGRAMME CREDITS	170

3.7 Multilevel Courses and Programme Electives

R 3.12 Under Programme Electives, all courses are offered at Level 3 or Level 4. Level 3 courses carry 3 credits focusing on the lower three levels of Bloom's taxonomy. Level 4 courses carry 4 credits which are intended for higher level thinking, with classroom instruction and Lab/Project based learning. Assessment patterns are indicated in the curriculum.

R 3.13 A minimum enrolment of 15 students is required to offer a Programme Elective course, unless the total number of students admitted to the Programme is less than 15.

R 3.14 Open Elective Courses (OEC) are designed to broaden students' knowledge beyond their parent discipline. Students are generally not permitted to select OEC courses from their parent department. A minimum of 15 students must be enrolled to offer an OEC course.

R 3.15 Students are prohibited from registering for OEC courses if there is more than 30% overlap in syllabus content with courses in their Major, Honours, or Minor programmes.

R 3.16 Industry Linked Electives (ILE) are courses developed in collaboration with industry experts to bridge academic learning and real-world application. The College's BoS, in consultation with industry partners, shall design and regularly update ILE syllabi, subject to Academic Council approval.

R 3.17 Maximum Credit Registration in a Semester – The maximum number of credits a student may register for in any semester shall not exceed the total mandatory credits for that semester plus 15 additional credits. No credit limit applies to scheme migration or inter-university transfer students for transitory courses identified by the BoS.

R 3.18 Self-Study Hours (SS) – SS hours per week are calculated as: $SS = 1.5L + 0.5T + 0.5P + R$. These represent expected time for independent learning outside scheduled class hours.

R 3.19 The medium of instruction shall be English. All examinations, project/seminar reports, and presentations shall be in English.

4. MAXIMUM DURATION FOR COMPLETION OF B.TECH PROGRAMME

R 4.1 Normal Programme Duration – The normal duration of the B.Tech Programme is 4 years (8 semesters).

R 4.2 Grace Period – If backlog courses remain after the normal four-year duration, a student shall be permitted an additional grace period of two years to complete all credit requirements.

R 4.3 Automatic Cancellation – After the permissible duration (6 years from first registration), the student's registration shall be automatically cancelled. No separate intimation shall be sent. Students may still apply for certificates and result-related portal activities.

5. ACADEMIC MENTORING AND STUDENT SUPPORT

5.1 Advisory System

R 5.1 Each class shall be assigned a Senior Faculty Advisor (SFA) and multiple Faculty Advisors (FAs) to provide focused guidance to students.

R 5.2 The Principal, in consultation with the Head of Department (HoD), shall designate a regular faculty member with a minimum of five years teaching experience as SFA. One SFA shall be assigned to only one class.

R 5.3 Each FA shall be responsible for overseeing the academic progress, well-being, and guidance of 25 to 35 students within their advisory group.

R 5.4 Regular communication with parents/guardians regarding academic progress and other issues shall be the responsibility of the SFA/FA.

5.2 Communication Protocol

R 5.5 Students and parents are required to seek advice, clarifications, and permissions regarding academic matters from their SFA or FA. All requests or applications from students or parents must first be reviewed and recommended by the SFA/FA. The HoD shall forward recommendations to the Principal.

R 5.6 The SFA shall organise separate or combined meetings with advisors, course faculty, parents, and students to discuss academic progress and address academic, non-academic, and personal issues.

5.3 Course Faculty Responsibilities

R 5.7 Major Responsibilities of Course Faculty:

- Adhere to all regulations and syllabus requirements for teaching and evaluation.
- Maintain all relevant records including answer books, attendance, and evaluation documents.
- Conduct classes as per the College Academic Calendar and HoD's timetable.
- Distribute a course plan and evaluation plan including objectives to all students within the first week of the semester.
- Document student performance and communicate results promptly, including displaying results on notice boards as per regulations.
- Report monthly to the HoD on cases of poor academic performance or low attendance that may result in an 'FE' grade.

5.4 Class Committee and PTA Meetings

R 5.8 Class Committee – A class committee shall be constituted for every class by the HoD comprising: Chairperson (SFA), a senior faculty member from another department, Faculty Advisors, and a minimum of eight student representatives from all genders. The committee shall meet at least twice per semester. If the SFA and FA members are part of the academic activities of the class concerned, HOD can assign another faculty member who is not taking regular classes in the batch as the chairperson of class committee for that semester. Chairperson of the class committee is responsible for the conduct of class committee meetings.

R 5.9 Class PTA Meeting – Each class shall conduct at least one Parent-Teacher Association meeting per semester, scheduled after the first internal examination results. PTA meetings may be held online when physical meetings are not possible.

5.5 Maintenance and Display of Records

R 5.10 Internal marks, course-wise attendance percentages, and activity points shall be published on the department notice board for at least two working days before finalizing in the ERP portal.

R 5.11 The SFA/FA shall maintain hard copies of consolidated statements of attendance, internal marks, and activity points for their advisory group. These shall be kept with the HoD and be available for inspection at all times.

R 5.12 The Principal shall communicate all University/statutory body regulations, amendments, guidelines, and academic calendars to HoDs and faculty members promptly. The SFA/FA shall ensure all relevant information is communicated to students for timely completion of academic activities.

6. ATTENDANCE*

R 6.1 Students are expected to attain 100% attendance for all courses. Under unavoidable circumstances, they are permitted leave provided total absence does not exceed 25% of academic contact hours. A minimum of 75% attendance is mandatory to be eligible for the End Semester Examination.

R 6.2 Menstrual Leave Relaxation – A 2% relaxation in attendance shall be granted to eligible students as menstrual leave, reducing the mandatory minimum to 73%.

R 6.3 PWD Attendance Relaxation – A 5% relaxation shall be granted to students with disabilities (PWD), reducing the mandatory minimum to 70%.

R 6.4 Condonation of Attendance – In exceptional cases (on medical grounds only, supported by valid medical documents, subject to prevailing University/institutional norms), the Principal may condone attendance shortfall for students with attendance between 60% and 75%. This relaxation applies to a maximum of any two semesters during the normal program duration. A condonation fees fixed by the College shall be collected for each course.

6.1 Attendance Relaxation for Official Events

R 6.5 Duty Leave – The Principal may grant attendance relaxation (duty leave) up to a maximum of 10% for students representing the College, University, State, National or Zone in officially sponsored competitions, events, championships, or tournaments. Participation certificates signed by the Officer in Charge must be submitted within 10 days of the event. Late submissions will not be considered.

R 6.6 Attendance Relaxation for Organizing Events – The Principal may grant attendance relaxation (duty leave) up to 10% to College Union/University Union members for organizing extra/co-curricular activities. Documents must be submitted within 10 days of the event.

R 6.7 Special Leave – Participation in international events, Republic Day parades, and Inter-University tournaments while representing the University, State, or Country shall be treated as special leave, subject to prior approval and production of certificates within 10 days of the event.

R 6.8 If participation in national/international events coincides with End Semester Examinations, the next available examination opportunity shall be considered the student's first attempt.

7. ASSESSMENT AND EXAMINATIONS

7.1 Examination System under Autonomous Status

As an autonomous college, Jyothi Engineering College conducts its own End Semester Examinations (ESE) and Continuous Internal Evaluations (CIE). The College designs its own question papers, conducts valuation internally, and declares results independently. The degrees, however, are awarded by APJAKTU. The overall structure of assessment follows the APJAKTU framework to maintain equivalence for degree award purposes.

7.2 End Semester Examinations (ESE)

R 7.1 ESE shall be conducted every semester for all courses as prescribed in the respective curriculum and syllabus. The College Examination Cell shall publish the ESE schedule as part of the Academic Calendar.

R 7.2 ESE shall be conducted twice a year (Odd and Even semester). Supplementary examinations shall be conducted as per the schedule published by the College.

R 7.3 A student may choose to defer the ESE to the following semester except in Semester 8, where deferment is not permitted.

- The College Examination Cell shall maintain confidentiality of question papers, answer scripts, and results.

7.3 Assessment Ratios

R 7.4 Unless specifically mentioned in the curriculum, the CIE to ESE ratio shall be:

Course Type	CIE	ESE
Theory Courses (incl. HMC)	40 Marks (40%)	60 Marks (60%)
Theory + Practical / Theory + Project (TP / PB)	60 Marks (60%)	40 Marks (40%)
Laboratory Courses	50 Marks (50%)	50 Marks (50%)
Mini Project / Project Phase (with ESE)	50 Marks (50%)	50 Marks (50%)
Project / Internship (with External Viva Voce)	100% CIE	External Viva Voce
Seminar / Workshop / Skill Enhancement	100% CIE	Nil

7.4 Continuous Internal Evaluation (CIE)

R 7.5 CIE shall be conducted based on day-to-day work, periodic tests, assignments, case studies, activities, micro-projects, mini-projects, MCQs, quizzes, and other methods as detailed in the course syllabus.

R 7.6 Internal Written Examinations – Internal written examinations shall be conducted as specified in the syllabus. The duration of each written examination shall be 1 hour 15 min carrying 30 marks. Two internal examinations shall be conducted per semester, each covering 50% of the syllabus. Retests are permitted for students with valid reasons and should be conducted immediately after the second internal examination.

R 7.7 CIE Marks for Attendance – Attendance-based CIE marks shall be awarded as follows:

Attendance Percentage	Marks Awarded
90% and above	5 Marks
85% but less than 90%	4 Marks
80% but less than 85%	3 Marks
75% but less than 80%	1 Mark

R 7.8 There shall be no option for students to improve their CIE marks. In exceptional situations involving significant procedural lapses identified by the College Academic Council, the College may conduct a special CIE with revised internal marks updated in the student's final grade.

R 7.9 CIE marks for all courses shall be published at least 7 days before the commencement of the End Semester Examinations. Students may submit grievances regarding CIE marks to the course faculty and SFA within two working days of publication. The HoD, UG Dean, and Principal shall ensure prompt resolution.

7.5 Eligibility for ESE

R 7.10 To be eligible to attend the End Semester Examination for a course, students must:

- Achieve a minimum attendance of 75% in that course (73% for menstrual leave; 70% for PWD students).
- Have no pending disciplinary actions.
- Have completed course registration and examination registration.

R 7.11 Students who fail to meet the minimum attendance requirement shall be awarded an 'FE' grade (Failed due to lack of meeting Eligibility criteria) and shall be ineligible to appear for the ESE for that course. Students with FE grade should register for summer course prior to Supplementary examinations.

7.6 Grading System

R 7.12 At the end of each semester, every student shall receive a Letter Grade for every registered course. Grading shall be based on the percentage of total marks obtained as follows:

Grade	Grade Points	Marks Range	Classification
S	10	90% and above	
A+	9.0	85% to < 90%	
A	8.5	80% to < 85%	First Class with Distinction (CGPA $\geq$ 8.0)
B+	8.0	75% to < 80%	
B	7.5	70% to < 75%	
C+	7.0	65% to < 70%	First Class (CGPA $\geq$ 6.5 to < 8.0)
C	6.5	60% to < 65%	

Grade	Grade Points	Marks Range	Classification
D	6.0	55% to < 60%	
P (Pass)	5.5	50% to < 55%	
F (Fail)	0	Below 50% overall or below 40% in ESE	
FE	0	Failed – Eligibility criteria not met / CIE-only fail	
Ab (Absent)	0	Deferred ESE or absent (meets eligibility)	

***Note:** **Equivalent Percentage Mark = CGPA × 10*

7.7 Pass Criteria

R 7.13 The pass minimum for a course shall be 40% in the ESE and 50% in the combined CIE + ESE score. For CIE-only courses, the pass minimum shall be 50%.

R 7.14 A student awarded an 'F' grade must appear for the ESE at the next available opportunity. They shall not be permitted to re-register for the same course.

R 7.15 Grade Improvement – Students are not permitted to improve the grades of passed courses.

7.8 Deferral and Absence

R 7.16 Ab Grade – Students who defer their ESE (except Semester 8) or are absent due to health/personal emergencies shall be awarded an 'Ab' grade if they meet attendance eligibility. The next immediate examination opportunity shall be considered the student's first attempt. If the student does not register for the immediate supplementary examination, the 'Ab' grade shall be converted to 'F'.

R 7.17 If a student does not attend the ESE in Semester 8, or for Honours/Minor courses, an 'F' grade shall be awarded irrespective of reasons.

7.9 Semester Advancement

R 7.18 Minimum Cumulative Credits for Higher Semester Registration:

Sem	Credits Allocated	Cumulative Credits	Min. for Regular Students	Min. for Lateral Entry
S1	20	20	Not Applicable	Not Applicable
S2	22	42	Not Insisted	Not Applicable
S3	25	67	Not Insisted	Not Applicable
S4	24	91	Not Insisted	Not Insisted
S5	23	114	15 Credits from S1 & S2	Not Insisted
S6	23	137	Not Insisted	Not Insisted
S7	18	155	34 Credits from S1 to S4	12 Credits from S3 & S4
S8	12	167	Not Insisted	Not Insisted

R 7.19 Students shall not be permitted to register for the next higher semester if they have less than 40% average attendance in the current semester.

7.10 Grade Cards and Transcripts

R 7.20 A Grade Card shall be issued to each eligible student at the end of each semester. A Consolidated Grade Card (CGC) shall be issued at the end of the program. The grade card shall reflect course names, codes, grades, credits, SGPA, and month/year of examination.

R 7.21 CGPA shall be included in the semester grade card only if the student has cleared all courses and has no backlogs at the time of result declaration. 'F', 'FE', and 'Ab' grades shall be removed from the grade card once the course is successfully completed.

R 7.22 Official Transcripts shall be issued upon request and payment of the prescribed fee, both before and after programme completion.

R 7.23 Position Certificate – The College shall issue a Position Certificate to the top 2% of students in each discipline based on CGPA at programme completion. Students with any history of 'F', 'FE', or 'Ab' grades, or disciplinary actions, or who did not complete within the normal duration, are ineligible.

7.11 CCTV and Examination Integrity

R 7.24 All End Semester Examinations shall be conducted under CCTV surveillance. The Principal shall ensure recordings are securely stored as per the College Examination Manual. All matters pertaining to the conduct of ESE, results, revaluation, scrutiny, malpractices, and related procedures shall be managed in accordance with the JEC Examination Manual and APJAKTU guidelines.

7.12 Question Bank, Moderation and Revaluation

R 7.25 Question Bank Vetting – An external examiner shall be engaged for vetting the question bank for every course. For the 2026 curriculum, a fresh set of question banks shall be prepared course-wise by the respective Department BoS and vetted by the external examiner before adoption.

R 7.26 Examination Vigilance – During End Semester Examination days, an external observer along with an internal vigilance squad constituted by the Principal shall monitor the conduct of examinations.

R 7.27 Valuation and Revaluation – Answer scripts shall be evaluated internally by qualified examiners. Where a student requests revaluation, it shall be undertaken by an external evaluator. In the revaluation by the external examiner, if the variation in marks awarded exceeds 15% of the maximum marks, a third independent valuation shall be carried out by another internal/external examiner. In such cases, the average of the two highest marks among the three valuations shall be awarded as the final mark.

R 7.28 Moderation – Moderation shall be awarded to only 50% of the theory subjects in any examination session, rounded to the upper value. No moderation shall be awarded for supplementary examinations.

R 7.29 Malpractice and Scribe – Procedures relating to examination malpractice and the engagement of scribes for eligible candidates shall be governed by the APJAKTU Examination Manual and the JEC Examination Manual.

8. CHALLENGE COURSES

Challenge Courses (Credit by Examination) allow students to demonstrate competency in specific courses without undergoing the conventional CIE process. This is aligned with the Recognition of Prior Learning (RPL) framework.

R 8.1 Eligible courses for Challenge Examinations shall be specified in the respective curriculum as approved by the College BoS and Academic Council.(Students are expected to take theory only courses for challenge examinations)

R 8.2 Number of Challenge Courses – The total number of Challenge Courses made available to students under the curriculum shall not exceed 10. Students may register for Challenge Examinations subject to this overall cap and the per-program credit ceiling specified in the curriculum.

R 8.3 Students registered for a Challenge exam are exempted from CIE and shall be assessed solely through the ESE. No grade points shall be awarded for challenge courses.

R 8.4 To pass and earn credit for a challenge course, the student must secure a minimum grade of 'C'. Students who fail or do not appear on the scheduled date cannot re-take the Challenge exam for that course.

R 8.5 Credits earned for Challenge Courses shall not be included in SGPA/CGPA calculation. Grace Marks shall not be awarded for Challenge Courses.

8.1 Eligible Challenge Courses

Sl.	Sem	Type	Course Title	Credits	From Semester
1	S2	BS	Basic Science Course	3	S1
2	S2	BS	Basic Science Course	4	S1
3	S2	ES	Engineering Science Course	4	S1
4	S3	BS	Basic Science Course	3	S2
5	S4	BS	Basic Science Course	3	S3
6	S7	OE/PE	Open Elective / Programme Elective *	3/4/course	S5/S6
7	S7	HM	Humanities Course	2	S4/S5/S6
8	S8	OE/PE	Open Elective / Programme Elective *	3/4/course	S5/S6/S7
9	S8	HM	Organizational Behaviour and Business Communication	1	S4-S7

9. CALCULATION OF SGPA AND CGPA

9.1 Semester Grade Point Average (SGPA)

The SGPA is the weighted average of the grade points obtained in all courses registered in a semester, including 'F', 'FE', and 'Ab' grades (each assigned grade point 0).

$$\text{SGPA} = \Sigma (C_i \times GP_i) / \Sigma C_i \text{ (for all } n \text{ courses in the semester)}$$

9.2 Cumulative Grade Point Average (CGPA)

The CGPA indicates overall student performance from joining the program to a specific semester. It is the weighted average of grade points across all registered courses since Semester 1.

$$\text{CGPA} = \Sigma (C_i \times GP_i) / \Sigma C_i \text{ (for all } m \text{ courses across all semesters)}$$

R 9.1 For Lateral Entry students, credits from Semester 1 and 2 shall not be included in CGPA calculation. The CGC/OT shall include a statement: 'A total of 42 credits have been awarded based on credits from the qualifying Diploma/Degree program.'

R 9.2 Credits from Minor, Honours, and Challenge Examinations shall not be included in the calculation of SGPA or CGPA for the main B.Tech program.

R 9.3 GPA and CGPA shall be calculated to two decimal places. Percentage equivalent = $\text{CGPA} \times 10$.

Note – CGPA shall be calculated considering the entire 170 credits of the programme, including pass grades wherever applicable, and shall not be limited to 160 credits.

10. ACTIVITY CREDITS REQUIREMENT

R 10.1 Every student must earn 3 mandatory credits through active participation in co-curricular and extra-curricular activities as per the guidelines issued by the College and APJAKTU.

R 10.2 Regular B.Tech students must acquire a minimum of 120 activity points,

R 10.3 B.Tech Lateral Entry students must acquire a minimum of 90 activity points

R 10.4 Students must maintain documentary proof of activities attested by the SFA/FA.

R 10.5 Inter-University and Scheme Migration students shall earn a minimum of 5 points per semester during their period of study at the College.

R 10.6 List of Eligible Activities – The list of activities that a student may undertake towards the award of activity points, the achievement levels, the assigned points, and the documentary evidence required shall be as per the Activity Points Schedule produced in **Appendix — Activity Points** of these Regulations. Activities not explicitly listed therein, but falling under the recognized activity segments, may be considered on a case-to-case basis on the recommendation of the SFA/FA and approval of the College Council.

R 10.7 Achievement Levels – For the purpose of assigning activity points, achievement shall be classified into five levels: Level I (College Events), Level II (Zonal Events), Level III (State / University Events), Level IV (National Events), and Level V (International Events).

R 10.8 Approval Documents – The supporting documents required for sanctioning activity points are: (a) Certificate, (b) Letter from competent authorities, (c) Appreciation / Recognition letter, (d) Documentary evidence, (e) Legal proof, and (f) any other relevant documents as specified by the SFA/FA. Original documents shall be retained by the College for verification by the Academic Auditor.

R 10.9 Reporting and Portal Entry – The College shall consolidate the activity points earned by students on a semester basis and enter the cumulative points on an academic-year basis in the portal prescribed by APJAKTU within the window notified by the University.

11. ELIGIBILITY FOR B.TECH DEGREE

R 11.1 A student shall be eligible for the award of a B.Tech Degree from APJAKTU upon satisfying all of the following:

- Fulfilled all curriculum requirements within the stipulated program duration.
- Secured a minimum CGPA of 5.0.
- Earned a minimum of 160 credits including 3 Activity Points credits.
- No pending disciplinary actions.

R 11.2 The Degree Certificate, Provisional Certificate, Consolidated Grade Card, and Migration/Cancellation Certificates shall be issued to students only after all dues to the College and University are settled.

12. BREAK OF STUDY

R 12.1 A student is permitted to avail of a Break of Study under the following circumstances:

- Medical Reasons – Serious illness or accident requiring prolonged hospitalization. Medical certificates from the treating doctor are mandatory. A fitness certificate is required before rejoining.
- Start-up Venture or Product Development – A viable start-up idea. Permitted only after the 4th Semester. The student must submit a project report evaluated by an expert team convened by the Principal.
- Fellowship at Foreign University / National or International Industry – Relevant documentation of the fellowship offer must be provided. Approval is based on academic and professional value as assessed by the Principal after recommendations from IQAC and College Council.
- Personal Reasons – Students may apply for a break of study due to personal circumstances temporarily hindering continuation of studies.

R 12.2 Procedure – The Principal shall upload the student's request and all relevant documents to the University portal for final approval. The break of study shall take effect only after receiving final approval from APJAKTU.

R 12.3 Duration – The normal duration for a break of study is 1 year. In exceptional situations, a maximum of 2 years may be permitted.

R 12.4 Colleges shall not mark a break of study for a student once the examination eligibility details for that semester have been entered on the KTU portal.

R 12.5 During the break of study period, students are not permitted to attend regular classes, represent the College or University in events, or participate in any institute-level activities.

R 12.6 Students on break may register and appear for supplementary ESE for courses in which they have received 'F' or 'Ab' grades.

R 12.7 Debarment/suspension for disciplinary reasons shall not be classified as a break of study.

R 12.8 If a student does not rejoin after the permitted break period and fails to communicate, they shall be treated as being under 'Uninformed Long Absence'.

R 12.9 Students applying for Break of Study may be granted an extension beyond the permitted duration, based on Department BoS recommendation and Academic Council approval.

13. UNINFORMED LONG ABSENCE

R 13.1 A student shall be classified under 'Uninformed Long Absence' if continuously absent from classes or other academic obligations for 20 working days without submitting written notification to the Principal.

R 13.2 The Principal shall send official communication to the student, parent, or guardian within 15 working days from the start of the absence via registered letter and email, directing the student to resume attendance immediately.

R 13.3 Required proof for marking Uninformed Long Absence shall include the official communication sent and an undertaking that the student failed to attend despite notice. These documents shall be uploaded to the University portal. Uninformed Long Absence takes effect only after University approval.

R 13.4 Students under Uninformed Long Absence shall not be eligible for promotion to the next semester alongside their peers.

R 13.5 Rejoining – Students (except first-year) may rejoin within a maximum of one year following the marking of Uninformed Long Absence. First-year students may rejoin within two months of being marked, but not after the last working day of the second semester academic calendar.

R 13.6 A rejoining fee as fixed by the College/University shall be collected upon approval.

R 13.7 If students do not rejoin within the specified time, the College may remove their names from the roll list with University approval. Migration/cancellation certificates may be issued upon request on payment of prescribed fees.

14. SCHEME MIGRATION

R 14.1 In cases of readmission from a previous scheme to the 2026 scheme, the relevant BoS shall prepare courses for credit transfer or identify transitory courses by comparing the curricula of the previous and current schemes. The Academic Council shall review and approve these recommendations.

R 14.2 The BoS shall prepare a detailed table specifying transitory or equivalent courses by comparing curricula. Credits earned under the previous scheme shall be favorably considered when determining additional courses required under the new scheme.

R 14.3 Students of the previous scheme who rejoin in Semesters 6, 7, or 8 after a break of study may continue under the previous scheme, provided rejoining and completion occur within the permitted duration. The College shall make necessary arrangements to support these students.

R 14.4 Students who took a break in Semester 1 shall rejoin Semester 1 under the 2026 scheme. Students who took a break in Semester 2 may either rejoin Semester 1 under the 2026 scheme or Semester 2 following scheme migration rules.

R 14.5 Students of the previous scheme rejoining Semesters 2 to 5 without backlogs shall undertake only the audit courses identified by the BoS. No examinations or credits shall be assigned for audit courses. Credit requirements shall be determined based on the credits already earned under the previous scheme.

R 14.6 Students of the previous scheme with F or FE grades in courses shall undergo equivalent courses of the 2026 scheme (for FE grades) or appear for the ESE as per the 2026 scheme carrying forward converted internal marks (for F grades).

R 14.7 There shall be no credit limit for scheme migration students registering for transitory courses in any semester.

R 14.8 After rejoining, the regulations of the B.Tech batch in which the student rejoins shall be applicable. Students shall register for and complete all courses listed in the 2026 curriculum.

R 14.9 Students who rejoin after scheme migration must complete the 3 mandatory student activity credits as per the 2026 regulation.

15. MINOR IN ENGINEERING

The B.Tech (Minor) is an extension of the Bachelor of Technology degree, allowing students to pursue additional courses in a discipline outside of their primary field of study. This option provides an opportunity for students to gain expertise in a secondary area, thereby broadening their knowledge base and enhancing their qualifications in multidisciplinary fields. By completing the minor, students can diversify their skill set and open up additional career paths that require a broader understanding of multiple disciplines.

As an autonomous college, Jyothi Engineering College designs and offers its own Minor programmes, with curricula and syllabi approved by the College Board of Studies and Academic Council. Industry-Linked Minors (ILMs) offered in collaboration with industry partners shall also be governed by these regulations.

15.1 Types of Minors

R 15.1 Types of Minors and Approval:

- Minors can be offered in specialised areas, on a branch-wise basis, or as Industry-Linked Minors (ILM).
- Minors in specialised areas and industry-linked minors can be offered by a single department or in collaboration with two or more departments.
- Curricula and syllabi of all minors shall be approved by the College Board of Studies and the Academic Council.

15.2 Industry-Linked Minors (ILM)

R 15.2 Industry-Linked Minors offered by the College shall be governed by the following provisions:

- The College, in collaboration with industry partners, Government agencies, or organisations, shall be responsible for designing the syllabi for Industry-Linked Minors.
- The industry partner will play a pivotal role in designing the course content, delivering the course, and assessing the outcomes.
- The College may also subscribe to ILMs that have been designed by the APJAKTU BoS and approved by the APJAKTU Academic Council, subject to meeting the prerequisites and conditions specified by the University and the industry partner.
- Upon offering an ILM, the responsibility for delivering the Programme to students shall lie jointly with the College and the industry partner.
- A faculty member of the College assigned to deliver an ILM course must have received appropriate training from the industry partner. The faculty member, in collaboration with the industry partner, shall be responsible for ensuring proper delivery and assessment of the course.
- In instances where an ILM is offered as a common course across multiple colleges under APJAKTU, the University shall provide the question papers for the End Semester Examination to ensure uniformity in assessment across all participating colleges.
- The valuation of answer scripts for ILM courses shall be conducted at the College level.
- All documents related to ILM courses and assessment shall be retained at the College for a minimum period of two years following the announcement of results and shall be made available to external auditors upon request.

15.3 Registration

R 15.3 Registration for Minor in Engineering:

- All B.Tech students of the College shall be eligible to register for a Minor in Engineering.
- Registration for a Minor is permitted at the beginning of the third semester.
- A student can opt for only one minor specialization. Once a Minor specialization is registered, it cannot be changed.
- A minimum enrolment of 15 students is required to offer a Minor program.

15.4 Minor Registration Restrictions

R 15.4 Minor Registration Restrictions:

- Students are generally not allowed to register for minors offered by their parent branch.
- Additionally, students are prohibited from opting for minor courses if there is more than 30% syllabus content overlap between courses listed in the major and minor programmes.

R 15.5 Exceptions – In exceptional cases, students may select a minor offered by their parent department if both of the following conditions are met:

- **Course Nomenclature:** The course nomenclature differs significantly from the courses in their Major and Honours programmes.
- **Syllabus Content Difference:** There must be at least a 70% difference in syllabus content compared to the courses they are taking in their Major and Honours programmes.

R 15.6 The College shall publish the details of branches of students eligible to opt for a Minor programme offered by a department or departments.

15.5 Minor Programme Selection Verification

R 15.7 Minor Programme Selection Verification:

- A scrutiny committee, consisting of the Senior Faculty Advisors (SFAs), Heads of Departments, IQAC Coordinator, and the Dean (Academics), shall verify that the Minor Programme selected by students complies with the guidelines in R 15.3 to R 15.6.
- The College Council shall then verify and approve the final list submitted by the scrutiny committee.
- The minutes of the scrutiny committee and College Council meetings shall be maintained by the SFA and made available for verification by external auditors and APJAKTU upon request.

15.6 Credit Requirements for Minor

R 15.8 The student shall earn an additional 15 credits to be eligible for the award of a B.Tech degree with a Minor. The Minor courses and credits are distributed across four semesters to progressively build the student's expertise:

Semester	Credits
Semester 3	4
Semester 4	4
Semester 5	4
Semester 6	3

Semester	Credits
Total	15

R 15.9 Out of the 15 credits required for a Minor, 7 to 8 credits shall be earned by completing a minimum of two theory courses listed in the curriculum for the Minor. The remaining credits can be acquired by:

- Completing 2 MOOCs recommended by the College Board of Studies and approved by the Academic Council, or
- Completing additional theory courses listed in the Minor curriculum, or
- A combination of MOOC and theory courses listed in the Minor curriculum, or
- Project/ Activity based credits as specified in the curriculum.

R 15.10 MOOC Duration – The MOOC course shall have a minimum duration of 8 weeks and shall be from agencies approved by the College Academic Council (AICTE, NPTEL, SWAYAM, NITTTR, or other approved agencies).

15.7 Assessment and Credit Earning

R 15.11 Assessment and Credit Earning for Minor Courses and MOOCs:

i. Assessment of Regular Theory Courses

- The assessment of theory courses (other than MOOCs) and the earning of credits shall be as per the JEC autonomous examination framework, following the CIA:ESE ratio of 40:60 and based on the guidelines and assessment methods specified in the syllabus of the Minor course.
- The End Semester Examination for Minor theory courses shall be conducted by the College under its autonomous examination authority.
- Attendance, CIE marks, and ESE marks shall be computed as per the provisions of Sections 6 and 7 of these Regulations.

ii. Assessment and Certification of MOOCs

- The assessment and certification of MOOCs shall adhere to the prescribed norms set by the respective MOOC platforms.
- Candidates must present the certificate issued by the MOOC conducting agency as proof of credit attainment.
- This certificate must be submitted to the College within the normal program duration, in accordance with the guidelines issued by the College.

15.8 Registration and Examination for Minor Theory Courses

R 15.12 Registration and Examination for Minor Theory Courses:

i. Mandatory Registration

- Registration for theory courses listed in the 3rd and 4th semesters of the Minor curriculum is mandatory for all students enrolled in the Minor programme.
- If students do not opt to complete MOOC courses, they must also register for the theory courses listed in the higher semesters (Semesters 5 and 6).

ii. Revaluation

- Revaluation will be permitted for any of the theory courses in the Minor curriculum.

iii. No Supplementary Examinations

- There shall not be any supplementary examinations for the theory courses listed in the Minor curriculum.

iv. Failure and Alternative Options

- If a student fails in any of the theory courses, they shall be permitted to register for the alternate MOOC course specified in the Minor curriculum.
- However, the student must pass a minimum of two theory courses listed in the Minor curriculum to be eligible for the award of a B.Tech degree with a Minor.

v. Absence and Attendance Eligibility for Minor Courses

- If a student does not attend the End Semester Examination for Minor courses, an 'F' Grade will be awarded, irrespective of the reasons for absence.
- Students who fail to meet the minimum attendance eligibility requirement to appear for the ESE shall also be awarded an 'F' Grade instead of an 'FE' Grade.

15.9 Completion Requirement

R 15.13 Completion Requirement for Minor:

- If a student does not achieve the mandatory 15 credits as specified in the Minor curriculum and in accordance with Regulations R 15.8 to R 15.11 within the standard four-year programme duration, the Minor will not be awarded.
- If a student who has registered for a Minor programme does not become eligible for the Minor degree, the credits for the completed Minor courses shall be reflected in the Consolidated Grade Card but will not be included in the SGPA and CGPA calculations.

15.10 Other Provisions

R 15.14 Grace Marks shall not be awarded for Minor courses under any circumstances.

R 15.15 The additional credits earned for B.Tech Minor courses shall not be considered for calculating the SGPA/CGPA of the regular B.Tech program.

R 15.16 Credits earned in the Minor program shall not be transferable to the regular B.Tech program, and credits from the regular B.Tech program shall not be transferable to the Minor program.

R 15.17 Upon completion of the program, students will be awarded a degree stating: 'Bachelor of Technology in [Major] with Minor in [Minor].' The Consolidated Grade Card will reflect this information, including a list of all the courses taken for the Minor.

16. B. TECH (HONOURS)

The B. Tech (Honours) is an enhanced pathway of the Bachelor of Technology degree, offering students the opportunity to undertake additional advanced courses within their own discipline. This pathway enables students to deepen their knowledge in emerging and specialized areas of engineering, providing a stronger foundation for specialized career paths or further academic pursuits.

As an autonomous college, Jyothi Engineering College designs its own Honours curriculum, course codes, and syllabi, which are approved by the College Board of Studies and Academic Council and ratified by APJAKTU. All Honours courses are assessed by the College under its autonomous examination framework.

All requirements for both the basic B. Tech degree and the Honours must be completed within the normal Programme duration of four years (eight semesters).

16.1 Objective

Honours courses are designed for high-achieving students who wish to delve deeper into advanced topics within their major field of study. Completing these courses demonstrates a student's commitment to academic excellence and equips them with specialized knowledge aligned with industry and research requirements.

16.2 Eligibility and Registration

R 16.1 All B.Tech students of the College are eligible to register for B.Tech (Honours). Registration for Honours shall be done along with the registration for the 4th semester.

R 16.2 To qualify for the award of B.Tech (Honours), a student must achieve a CGPA of 8.0 or higher at the end of the eighth semester and satisfy all other academic requirements specified in these regulations.

16.3 Programme Structure and Course Distribution

R 16.3 The B.Tech (Honours) programme requires an additional 15 credits beyond the regular 170-credit B.Tech programme. Credits are distributed across four semesters as follows:

Semester	Credits
Semester 4	4
Semester 5	4
Semester 6	4
Semester 7	3
Total	15

16.4 Credit Requirements — Detailed Provisions

R 16.4 Out of the 15 credits required for the Honours degree, 4 credits must be earned by completing the first theory course listed in the Honours curriculum. This course is mandatory and cannot be replaced by a MOOC.

R 16.5 The remaining 11 credits can be acquired through any one or a combination of the following options:

- Completing MOOCs recommended by the College Board of Studies and approved by the Academic Council, OR

- Completing additional theory courses listed in the Honours curriculum (Semesters 5, 6, 7), OR
- A combination of MOOCs and theory courses listed in the Honours curriculum, or
- Project/ Activity based credits as specified in the curriculum.

16.5 Course Duration Requirements

R 16.6 The duration of each theory course in the Honours curriculum shall be a minimum of 12 weeks (as per the semester academic calendar of the College). A MOOC course considered for Honours credit shall have a minimum duration of 8 weeks with a proctored/offline end examination conducted by the MOOC platform.

R 16.7 Valid MOOC platforms for Honours shall include AICTE, NPTEL, SWAYAM, NITTTR, or any other platform approved by the College Academic Council. The student shall produce the certificate issued by the MOOC conducting agency as proof of credit attainment.

16.6 Assessment

R 16.8 Assessment of Honours theory courses shall follow the JEC autonomous examination framework. The CIA to ESE ratio shall be 40:60 (CIA – 40 marks; ESE – 60 marks). The ESE for Honours courses shall be conducted by the College under its autonomous examination authority.

R 16.9 Assessment and certification of MOOCs shall adhere to the prescribed norms of the respective MOOC platforms. MOOC certificates must be submitted to the College within the normal programme duration.

R 16.10 Students are prohibited from selecting MOOC courses with more than 30% syllabus overlap with courses in their Major, Minor, or Honours programmes.

16.7 Registration and Examination

R 16.11 Registration for the 4th semester Honours theory course is mandatory for all students enrolled in B.Tech (Honours). If students do not opt to complete MOOC courses, they must also register for the theory courses listed in the higher semesters of the Honours curriculum.

R 16.12 There shall be no supplementary examinations for the theory courses listed in the Honours curriculum. Revaluation of ESE answer scripts for Honours theory courses shall be permitted.

R 16.13 If a student fails in any course, including any course chosen for B.Tech (Honours), they shall not be eligible to continue the B.Tech (Honours). However, the additional credits earned up to that point shall be included in the grade card as 'Additional Credits'.

R 16.14 If a student does not attend the ESE for Honours courses, an 'F' grade shall be awarded irrespective of the reasons for absence. Students who fail to meet the minimum attendance eligibility requirement to appear for the ESE shall also be awarded an 'F' grade (not 'FE') for Honours courses.

Note – Students unable to appear for the Honours examination due to genuine reasons may be permitted a re-examination, based on Department Board of Studies recommendation and Academic Council approval.

16.8 Conferment of B.Tech (Honours)

R 16.15 The degree 'Bachelor of Technology (Honours) in [Major]' shall be conferred by APJAKTU upon students of JEC satisfying all of the following conditions:

- CGPA at the end of Semester 8 is 8.0 or above.
- Grade of 'C' or above earned in the mandatory Honours course offered in the 4th semester.
- Remaining 11 credits acquired by MOOC courses or project/Activity based learning.

- No record of 'F' or 'FE' grades in any Honours or Major programme courses from Semester 1 to Semester 8.
- All academic requirements completed within the normal programme duration of 4 years (8 semesters).

R 16.16 The Consolidated Grade Card issued by shall reflect the Honours designation along with a list of all courses taken for Honours, including any MOOCs completed towards the Honours credits.

16.9 Non-Eligibility and Additional Credits

R 16.17 If a student who has registered for B.Tech (Honours) does not become eligible for the Honours degree, the credits for the completed Honours courses shall be reflected in the Consolidated Grade Card as 'Additional Credits Earned'. These credits shall not be included in the SGPA and CGPA calculations for the main B.Tech programme.

R 16.18 The additional credits earned for B.Tech Honours courses shall not be considered for calculating the SGPA/CGPA of the regular B.Tech programme.

R 16.19 Grace marks shall not be awarded for Honours courses under any circumstances.

16.10 Combined Honours and Minor

R 16.20 A student who successfully completes the eligibility requirements for both the Honours and Minor programmes shall be awarded by a degree stating: 'Bachelor of Technology (Honours) in [Major] with Minor in [Minor]'.

17. MASSIVE OPEN ONLINE COURSES (MOOC)

R 17.1 Valid MOOC Agencies – MOOCs shall be considered valid only if conducted by AICTE, NPTEL, SWAYAM, NITTTR, or other agencies approved by the College Academic Council.

R 17.2 MOOCs must have a minimum duration of 8 weeks and be delivered in online mode including a proctored/offline End Semester Examination.

R 17.3 At least 70% of the MOOC course content must match the area of study of the concerned Minor/Honours/Major course.

R 17.4 MOOC Approval – Proposals for MOOC approval must be submitted by the College (through the department concerned) to the Academic Council at least one month before the commencement of the respective semester. The proposal must include MOOC agency details, course duration, benefits, and a syllabus comparison report. No retrospective approval shall be entertained.

R 17.5 Students are prohibited from registering for MOOC courses if there is more than 30% syllabus overlap with any course in their Major, Minor, Honours, OEC, or ILE programmes.

R 17.6 The BoS shall issue guidelines for MOOC selection and conduct annual reviews, updating the approved list as necessary. The College shall publish the revised list before the commencement of each semester.

R 17.7 Students may register for and complete a MOOC in any lower semester, but credits will only be reflected in the grade card for the respective semester in which the course is part of the curriculum.

R 17.8 MOOCs required for Honours and Minor degrees must be completed within the normal four-year programme duration.

17.1 Summer Courses

R 17.9 Summer Courses – Summer courses shall be offered to final-year students (Semester 7 / Semester 8) to facilitate clearance of pending courses and to provide an opportunity for accelerated completion of the programme.

R 17.10 Course Limit – A student may register for a maximum of two courses (subject to a combined ceiling of 8 credits) under the Summer Course scheme during the final year.

R 17.11 Scheduling – The Summer Course shall be conducted by the College immediately after the announcement of the final semester (S8) results. The detailed schedule, including the dates of instruction, internal assessment, and End Semester Examination, shall be notified through the Academic Calendar.

R 17.12 MOOC Failure – Students who have failed in a MOOC course shall be eligible to opt for the equivalent Summer Course (where one is offered) for semester clearance, subject to the credit and course details.

R 17.13 Assessment – Assessment for Summer Courses shall follow the standard CIE–ESE pattern prescribed for the respective course type in the curriculum, conducted by the College under its autonomous examination framework.

18. GRACE MARKS — SPORTS / ARTS COMPETITIONS

R 18.1 Only bona-fide, regular candidates are eligible for the award of Grace Marks.

R 18.2 Criterion – Representing the University/State/Country in officially sponsored competitions, championships, or tournaments with prior official permission.

R 18.3 For End Semester Written Examinations, grace marks shall be 10% of the ESE marks for each course. Total marks including grace marks must not exceed maximum allowable ESE marks.

R 18.4 For winners (First, Second, Third places) of state-level events conducted by the University, grace marks shall be 5% of the ESE marks for each course in University ESE.

R 18.5 Grace Marks Conditions:

- Awarded only for the regular examination of the current performing semester.
- Only the single highest achievement during the semester is eligible.
- Grace marks shall not be redistributed between semesters or between courses.
- Not awarded for supplementary examinations, Honours, Minor, Challenge Courses, or MOOCs.
- Applicable only if the examination is the student's first attempt for that course.

R 18.6 Requests for Grace Marks must be submitted to the College Controller of Examinations through the Principal with all relevant documents within the prescribed timeframe. Late requests shall not be entertained.

19. GRACE MARKS — PERSONS WITH DISABILITY (PWD)

R 19.1 The Rights of Persons with Disabilities Act, 2016 (RPWD Act) and its provisions, including the implementation of Unique Disability Identity (UDID) Cards, shall be fully integrated into the JEC B.Tech 2026 Regulations.

R 19.2 PWD candidates eligible for Grace Marks shall receive 25% of the marks scored in each course at the time of result finalization. Total marks including grace marks must not exceed the maximum allowable ESE marks. Grace marks are awarded for both regular and supplementary examination attempts until the student passes.

R 19.3 Grace Marks shall be awarded for: courses in which the College conducts ESE (written and practical), courses without ESE, and Minor and Honours courses. Grace marks shall not be awarded for MOOCs and Challenge courses.

R 19.4 Transfer of marks from one course/paper to another shall not be permitted. Fractions of marks shall be rounded up to the next higher integer.

R 19.5 Requests must be submitted to the Controller of Examinations through the Principal with all required documents within the prescribed timeframe.

Note – The method of awarding Grace Marks and whether they apply to the entire subject or to specific assessment components is as clearly specified above. Grace Marks shall be awarded only after the student satisfies the minimum passing requirements of the semester.

20. INTER-COLLEGE TRANSFER

R 20.1 Inter-college transfer is applicable only for regular B.Tech students and is not permitted in the first year of admission.

R 20.2 Transfer is permitted after the completion of second semester examinations and before the commencement of third semester classes, provided the student fulfils academic eligibility requirements for promotion to Semester 3. Transfer takes effect from the first working day of the third semester.

R 20.3 Inter-college transfers shall be completed before the commencement of B.Tech Lateral Entry Admission in the third semester.

R 20.4 The University shall initiate inter-college transfers through a notification before the commencement of third semester classes.

R 20.5 Transfer is permitted only within the sanctioned strength of the receiving college as approved by AICTE and the University.

R 20.6 The following categories of students are not eligible for inter-college transfer: Government of India Nominees, Lateral Entry Students, students admitted in supernumerary seats (other than EWS), and any category ineligible as per Government of Kerala/India conditions.

R 20.7 Selection is based on KEAM Rank if applicants exceed available seats. The reservation policy of Kerala shall be strictly adhered to.

R 20.8 A student is permitted to opt for inter-college transfer only once during the programme. Once transferred, no further transfer is permitted.

R 20.9 In extraordinary circumstances (health issues, college/branch closure, withdrawal of recognition), the University may facilitate transfer at any time during the programme.

R 20.10 All inter-college transfer processes shall be completed within 30 working days from the date of commencement of semester classes.

R 20.11 Inter-College Transfer may be permitted in accordance with Academic Bank of Credits (ABC) guidelines, wherever applicable.

21. MIGRATION FROM OTHER UNIVERSITIES

R 21.1 Migration to APJAKTU (and thus to the College) shall be permitted if the parent institution is ranked in the Engineering category of NIRF or within the top 1000 in QS, THE, or ARWU rankings. Exceptions apply if a bipartite MoU exists between the parent university and APJAKTU.

R 21.2 Students from both Indian and foreign universities are eligible. For foreign universities, approval from the Association of Indian Universities (AIU) is required.

R 21.3 Migration is permitted up to the fifth semester. Under special circumstances, students who have completed the 5th or 6th semester may also rejoin the 5th semester.

R 21.4 Required documents include: Regulations, Scheme and Syllabus attested by the Registrar; copies of all mark lists from 10th grade onwards; and character certificate from parent institution.

R 21.5 Admission is subject to seat availability. Credit transfer and CGPA calculation shall follow APJAKTU norms. A maximum of 6 transitory courses shall be prescribed. If more than 6 are required, the matter shall be decided by the Academic Council.

R 21.6 Migration and processing fees as prescribed by the University must be paid. These are non-refundable. No credit limit applies to transitory course registration for migrated students.

22. STUDENT EXCHANGE PROGRAMME

R 22.1 Exchange programmes shall be conducted with Institutes of National Importance (INIs) in India or with international universities/institutions with which APJAKTU has established bilateral agreements or MoUs. International exchanges shall be limited to universities ranked below 1000 in QS/THE/ARWU rankings or under MoU arrangements.

R 22.2 Eligibility – Students must have a minimum CGPA of 7.5 up to the last declared results, no pending disciplinary actions, and no backlogs at the time of application. The programme is open to students in their 3rd/4th year.

R 22.3 Duration – Exchange programmes shall be for a minimum of one semester and a maximum of two semesters. Two-year exchange programmes are permitted if the College signs an MoU with a foreign university per AICTE guidelines (minimum CGPA 6.5 required).

R 22.4 Before departure, students must select host university courses aligned with the KTU curriculum, pre-approved by the BoS and Academic Council. Upon return, credits earned shall be transferred and applied to degree requirements.

R 22.5 Credits from the exchange shall be incorporated into the CGPA calculation after converting grades to the KTU grading scale. Transferred credits shall be indicated on the CGC and Official Transcript.

R 22.6 Students are responsible for visas, travel, accommodation, insurance, and compliance with the code of conduct of both the College/APJAKTU and the host institution.

23. INTERNSHIPS

R 23.1 Students may undertake two types of internships: Short-Term Internships and Long-Term Internships.

R 23.2 Short-Term Internships – Permitted after the completion of Third Semester University Examinations. Duration shall not exceed 8 weeks.

R 23.3 Long-Term Internships – Available in the 7th or 8th semester. Duration shall be a minimum of 4 months and a maximum of 6 months.

R 23.4 Option for 1-Year Internship – Students who have completed all theory courses in Semesters 7 and 8 through challenge exams/MOOCs and have only Seminar (S7) and Project/Internship (S7 and S8) pending, may apply for a one-year internship in their final year. The Project/Internship component may be integrated with the one-year internship subject to University approval.

R 23.5 Students undertaking internships in Semester 7 or 8 may opt for self-study/self-learning mode for applicable courses. The attendance percentage accrued during the internship period shall be treated as equivalent to class attendance. S7 Seminar may be delivered online for students at a location different from the College.

R 23.6 Detailed guidelines and eligibility conditions for internships shall be published separately by the College in accordance with APJAKTU norms. Students must have no pending disciplinary actions to be eligible for internships.

R 23.7 Internships may be permitted to replace project work in Semester VII and Semester VIII, subject to prescribed guidelines and approval procedures.

24. INDUSTRIAL VISIT

R 24.1 Industrial visits are permitted either in S5 or S6. A maximum of 12 days is allowed, of which no more than 6 are working days. Students who do not participate in the industrial visit must attend industrial training during the same period. A maximum of 6 days of IV/industrial training shall be considered for attendance purposes. Detailed guidelines shall be published separately by the College on respective times based on the guidelines of DTE-Kerala and APJAKTU.

25. OMBUDSPERSON

R 25.1 The College/University shall appoint an Ombudsperson in accordance with the University Grants Commission (Redressal of Grievances of Students) Regulations 2023 and subsequent amendments, for the redressal of student grievances. The contact details and process for approaching the Ombudsperson shall be displayed prominently and communicated to all students at the commencement of each academic year.

26. OVERRIDING PROVISIONS

R 26.1 Notwithstanding anything contained in these regulations, the Academic Council of Jyothi Engineering College (Autonomous), in concurrence with the appropriate statutory bodies of APJAKTU, shall have the power to amend, modify, or repeal any of these regulations from time to time, subject to the guidelines of UGC, AICTE, and APJAKTU.

R 26.2 In matters of conflict between these College Regulations and APJAKTU regulations, the provisions of APJAKTU regulations shall prevail to the extent of the inconsistency.

R 26.3 The College reserves the right to issue supplementary guidelines, circulars, and instructions from time to time consistent with these regulations, which shall be equally binding on all students, faculty, and staff.

R 26.4 These regulations shall be made available to all students at the time of admission and shall be accessible on the College website and the APJAKTU portal.

Approved by the Academic Council, Jyothi Engineering College (Autonomous)

Jyothi Hills, Panjal Rd, Vettikattiri, Cheruthuruthi, Thrissur, Kerala – 679531

Affiliated to APJ Abdul Kalam Technological University, Kerala

APPENDIX — B.TECH CURRICULUM 2026

This appendix contains the snap shot of B.Tech Curriculum 2026 approved by the Board of Studies and Academic Council of Jyothi Engineering College (Autonomous). The curriculum is applicable from the academic year 2026-27 onwards and is applicable to all B.Tech programmes offered by the College. Branch-specific course titles, codes, and elective lists shall be as finalised by the respective Department Board of Studies.

A.1 List of Abbreviations

Code	Full Form
L	Lecture hours per week
T	Tutorial hours per week
P	Practical hours per week
H	Hands-on project hours per week
S	Self-learning hours per week
PO	Programme Outcome
PSO	Programme Specific Outcome
PEO	Programme Educational Objective
WK	Knowledge and Attitude Profile
BS	Basic Science Courses
ES	Engineering Science Courses
HM	Humanities, Social Science and Management Courses
PC	Programme Core Courses
PE	Programme Elective Courses
PI	Project Work / Seminar / Internship
SE	Skill Enhancement Courses
IK	Indian Knowledge System
HW	Health and Wellness
SA	Student Activities
TC	Theory Course
PL	Practical / Lab Course
TP	Theory Course Embedded with Practical
PB	Theory Course Embedded with Micro-Projects
PT	Project
PI	Internship
SR	Seminar

A.2 Programme Outcomes (POs)

PO	Attribute	Description
PO1	Engineering Knowledge	Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop the solution of complex engineering problems.
PO2	Problem Analysis	Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
PO3	Design/Development of Solutions	Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
PO4	Conduct Investigations of Complex Problems	Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis and interpretation of data to provide valid conclusions. (WK8)
PO5	Engineering Tool Usage	Create, select and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modelling, recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
PO6	The Engineer and The World	Analyze and evaluate societal and environmental aspects while solving complex engineering problems for their impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7)
PO7	Ethics	Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national and international laws. (WK9)
PO8	Individual and Collaborative Teamwork	Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
PO9	Communication	Communicate effectively and inclusively within the engineering community and society at large; write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.
PO10	Project Management and Finance	Apply knowledge and understanding of engineering management principles and economic decision-making to one's own work, as a member and leader in a team, and to manage projects in multidisciplinary environments.
PO11	Life-Long Learning	Recognize the need for, and have the preparation and ability for (i) independent and life-long learning, (ii) adaptability to new and emerging technologies, and (iii) critical thinking in the broadest context of technological change. (WK8)

A.3 Knowledge and Attitude Profile (WK)

WK	Description
WK1	A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.
WK2	Conceptually based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.
WK3	A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.
WK4	Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.
WK5	Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area.
WK6	Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
WK7	Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.
WK8	Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.
WK9	Ethics, inclusive behaviour and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding, respect, and inclusive attitudes.

A.4 Cumulative Credits

Total cumulative credits for the entire B.Tech programme: 170 credits

Component	Credits
Academic Credits	167
Mandatory Student Activity Credits	3
Total Programme Credits (B.Tech)	170
B.Tech with Honours	185*
B.Tech with Minor	185*
B.Tech with Honours and Minor	200*

* Honours and Minor credits are additional credits over and above the 170-credit base programme.

A.5 Credit Assignment

Reference: National Credit Framework, September 2022.

Course Delivery Mode	Code	Hours per Week	Credits
Lecture	L	1	1
Tutorial	T	1	1
Practical	P	2	1
Hands-on Project	H	3 / 4	1

A.6 Credit Distribution — Year / Semester Wise

Year	Odd Semester Credits	Even Semester Credits	Total Credits
First (S1 & S2)	20	22	42
Second (S3 & S4)	25	24	49
Third (S5 & S6)	23	23	46
Fourth (S7 & S8)	18	12	30
Academic Credits	167		
Mandatory Student Activity Credits	3		
TOTAL (B.Tech)	170		

A.7 Course Category and Credit Distribution

Sl.	Course Category	Code	Credits	No. of Courses
1	Basic Science Courses	BS	21	6
2	Engineering Science Courses	ES	28	10
3	Humanities, Social Science and Management	HM	10	6
4	Programme Core Courses	PC	61	21
5	Programme Elective Courses	PE	20	6
6	Open Elective / Industry Linked Elective Courses	OE/IE	8	3
7	Project Work / Seminar / Internship	PI	13	3
8	Skill Enhancement Courses	SE	3	3
9	Indian Knowledge System	IK	2	1
10	Health and Wellness	HW	1	1
11	Student Activities	SA	3	—
	Total		170	

A.8 Course Types and Assessment Pattern

Course Type	Code	Credits	CIE Marks	ESE Marks	Total
Workshop	PL	1	100	—	100
Theory Course	TC	1/2/3/4	40	60	100
Lab Course	PL	2	50	50	100
Theory + Practical	TP	4	60	40	100
Theory + Project (PBL)	PB	4	60	40	100
Project	PT	3, 4	50	50	100
Seminar	SR	2	100	—	100
Skill Enhancement Course	SE	1	100	—	100

APPENDIX — ACTIVITY POINTS

The list of activities prescribed for the award of activity points, the achievement levels, the assigned points, the approval documents required, and the minimum duration where applicable, are reproduced below from the KTU Rules for Assigning Activity Points (2019). The activities are grouped under six segments: (1) National Initiatives, (2) Sports & Games, (3) Cultural Activities, (4) Professional Self Initiatives, (5) Entrepreneurship and Innovation, and (6) Leadership & Management.

C.1 Achievement Levels

Level	Description
Level I	College Events
Level II	Zonal Events
Level III	State / University Events
Level IV	National Events
Level V	International Events

C.2 Approval Documents

Code	Description
a	Certificate
b	Letter from Authorities
c	Appreciation / Recognition letter
d	Documentary evidence

Code	Description
e	Legal Proof
f	Others (to be specified)

C.3 National Initiatives — Participation

Sl.	Activity	Level I	Level II	Level III	Level IV	Level V	Approval Doc.	Max. Points	Min. Duration
1	NCC	—	—	—	—	—	a / b	60	1 Year
2	NSS	—	—	—	—	—	a / b	60	1 Year

For 'C' Certificate / outstanding performance supported by certification, additional points up to 20 may be awarded subject to a maximum limit of 80 points.

C.4 Sports & Games — Participation

Sl.	Activity	Level I	Level II	Level III	Level IV	Level V	Approval Doc.	Max. Points	Min. Duration
3	Sports	8	15	25	40	60	a	60	1 Year
4	Games	8	15	25	40	60	a	60	1 Year

Additional Points for Winning (Sports & Games):

Position	Level I	Level II	Level III	Level IV	Level V
First Prize	10	10	10	20	20
Second Prize	8	8	8	16	16
Third Prize	5	5	5	12	12

Additional points can be provided for winning. The maximum limit for activity points is 60. For Level IV and Level V winning, the maximum point limit is enhanced to 80.

C.5 Cultural Activities — Participation

Sl.	Activity	Level I	Level II	Level III	Level IV	Level V	Approval Doc.	Max. Points	Min. Duration
5	Music	8	12	20	40	60	a	60	1 Year
6	Performing Arts	8	12	20	40	60	a	60	1 Year
7	Literary Arts	8	12	20	40	60	a	60	1 Year

Additional Points for Winning (Cultural):

Position	Level I	Level II	Level III	Level IV	Level V
First Prize	10	10	10	20	20
Second Prize	8	8	8	16	16
Third Prize	5	5	5	12	12

Additional points can be provided for winning. The maximum limit for activity points is 60. For Level IV and Level V winning, the maximum point limit is enhanced to 80.

C.6 Professional Self Initiatives

Sl.	Activity	Level I	Level II	Level III	Level IV	Level V	Approval Doc.	Max. Points
8	Tech Fest, Tech Quiz	10	20	30	40	50	a	50
9	MOOC with Final Assessment Certificate (NPTEL/SWAYAM/Infosys Springboard, with proctored examination)	—	—	50	—	—	a	50
10	Competitions conducted by Professional Societies (IEEE, IET, ASME, SAE, NASA, etc.)	10	15	20	30	40	a	40
11	Attending Full-Time Conference / Seminar / Exhibition / Workshop / STTP conducted at IITs / NITs	—	—	20	—	—	a	40
12	Paper Presentation / Publication at IITs / NITs/ IEEE Conferences	—	—	30	—	—	a	40
13	Poster Presentation at IITs / NITs	—	—	20	—	—	a	30
14	Industrial Training / Internship (at least 5 full days)	—	—	20	—	—	a / b	20
15	Industrial / Exhibition Visits	—	—	5	—	—	a / b / d	10
16	Foreign Language Skill (TOEFL / IELTS / BEC exams, etc.)	—	—	50	—	—	a	50

An additional 10 points may be awarded for Paper / Poster Presentation if accompanied by a certificate of recognition (entries 12 and 13).

C.7 Entrepreneurship and Innovation

Sl.	Activity	Points	Approval Doc.	Max. Points
17	Start-up Company — Registered legally	60	d	60
18	Patent — Filed (Max of 5 No')	10	d	50
19	Patent — Granted	50	d	50

Sl.	Activity	Points	Approval Doc.	Max. Points
20	Patent — Licensed	80	d	80
21	Prototype developed and tested	60	d	60
22	Awards for Products developed	60	d	60
23	Innovative technologies developed and used by industries / users	60	d	60
24	Venture capital funding received for innovative ideas / products	80	d	80
25	Start-up Employment (offering jobs to two persons at not less than Rs. 15,000 per month)	80	d	80
26	Societal Innovations	50	d	50

C.8 Leadership & Management

Sl.	Activity	Core Coordinator	Sub Coordinator	Volunteer	Approval Doc.	Max. Points
27	Student Professional Societies (IEEE, IET, ASME, SAE, NASA, etc.)	15	10	5	d	40
28	College Association Chapters (Mechanical, Civil, Electrical, etc.)	15	10	5	d	40
29	Festival & Technical Events (College-approved)	15	10	5	d	40
30	Hobby Clubs	15	10	5	d	40

Elected Student Representatives:

Sl.	Activity	Chairman	Secretary	Other Council Members	Approval Doc.
31	Elected Student Representatives	30	25	15	d

C.9 General Provisions

C.9.1 Additional activities falling within the above six segments, but not explicitly enumerated in this Appendix, may be considered on the basis of detailed proposals submitted by the College, subject to the approval of the Academic Council of Jyothi Engineering College (Autonomous).

C.9.2 All documentary proof submitted for the award of activity points shall be retained by the College for verification by the Academic Auditor and APJAKTU.

C.9.3 The Senior Faculty Advisor / Faculty Advisor shall consolidate the points earned by each student on a semester basis. The cumulative points across the academic year shall be entered in the APJAKTU portal within the prescribed window.

— End of Regulations —