



**JNTUH UNIVERSITY COLLEGE OF ENGINEERING, SCIENCE AND TECHNOLOGY, HYDERABAD  
(AUTONOMOUS)**  
**Kukatpally, Hyderabad – 500085**

**Academic Regulations (R22) for B.Tech (Regular) Programme**

**1.0 Under-Graduate Degree Programme in Engineering & Technology (UGP in E&T)**

JNTUH University College of Engineering, Science and Technology Hyderabad (JNTUH UCESTH) offers a 4-year (8 semesters) **Bachelor of Technology** (B.Tech) programme, under Choice Based Credit System (CBCS) with effect from the academic year **2022-23**.

**2.0 Eligibility for Admission**

- 2.1 Admission to the undergraduate (UG) B.Tech programme shall be made either on the basis of the merit rank obtained by the qualified student in entrance test conducted by the Government of Telangana (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.
- 2.2 The medium of instructions for the entire undergraduate programme in Engineering & Technology will be **English** only.

**3.0 The Structure of B.Tech Programme**

- 3.1 A student after securing admission shall complete the B.Tech programme in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall be forfeited seat in B.Tech course. Each student shall secure 160 credits (with  $CGPA \geq 5$ ) required for the completion of the undergraduate programme and award of the B.Tech degree.
- 3.2 **UGC/ AICTE** specified definitions/descriptions are adopted appropriately for various terms.

**3.2.1 Semester Scheme**

Each undergraduate programme is of 4 academic years (8 semesters) with the academic year divided into two semesters of 22 weeks ( $\geq 90$  instructional days) each and in each semester -‘Continuous Internal Evaluation (CIE)’ and ‘Semester End Examination (SEE)’ under Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) indicated by UGC, and curriculum/course structure suggested by AICTE are followed.

### 3.2.2 Credit Courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for **one** hour/week/semester for Theory/Lecture (L) courses and Tutorials (T).

- One credit for **two** hours/week/semester for Laboratory/Practical (P) courses.

Courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization Lab are mandatory courses. These courses will not carry any credits.

### 3.2.3 Subject Course Classification

All subjects/courses offered for the undergraduate programme in E&T (B.Tech programme) are broadly classified as shown in Table 1. The college follows the guidelines issued by AICTE/UGC.

**Table 1. Category of Courses**

S. No.	Broad Course Classification	Course Group/Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry
2		ES - Engineering Sciences	Includes fundamental engineering subjects
3		HS – Humanities and Social Sciences	Includes subjects related to humanities, social sciences and management
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline/department/branch of engineering.
5		PE – Professional Electives	Includes elective subjects related to the parent discipline/department/branch of engineering.
6	Elective Courses (ElC)	OE – Open Electives	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline/department/branch of engineering.
7	Core Courses	Project Work	B.Tech. Project or UG Project or UG Major Project or Project Stage I & II

8	Industry Training/ Internship/ Industry Oriented Mini-project/ Mini-Project/ Skill Development Courses	Industry Training/ Internship/ Industry Oriented Mini-Project/ Mini-Project/ Skill Development Courses
9	Seminar	Seminar/Colloquium based on core contents related to parent discipline/department/branch of engineering.
10	Minor Courses	-
11	Mandatory Courses (MC)	-

#### 4.0 Course Registration

- 4.1 A ‘faculty advisor/mentor shall be assigned to a group of 20 students. A mentor will provide information about the course structure and curriculum to the mentees. A mentor will also assist the mentees in choosing the subjects/courses, based on their competence, performance, fulfillment of prerequisites and interest.
- 4.2 The academic section of the college invites ‘registration forms’ from students before the beginning of the semester through ‘on-line registration’, ensuring ‘date and time stamping’. The online registration requests for any semester shall be completed before the commencement of SEEs (Semester End Examinations) of the preceding semester.
- 4.3 A student can apply for on-line registration only after obtaining the ‘written approval’ from faculty advisor/mentor which shall be submitted to the college academic section forwarded through the Head of the Department. A copy of it shall be retained with the Head of the Department, faculty advisor/ mentor and the student.
- 4.4 A student may be permitted to register for all the subjects/courses in a semester as specified in the course structure with maximum additional subject(s)/course(s) limited to 6 credits (any 2 elective subjects), based on performance i.e. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), and completion of the ‘prerequisites’ as indicated for various subjects/courses, in the department course structure and contents of syllabus.
- 4.5 Choice for ‘additional subjects/courses’, not more than any 2 elective subjects in any semester, must be clearly indicated, which needs the specific approval and signature of the faculty advisor/mentor and HoD.
- 4.6 If the student submits ambiguous choices or multiple options or erroneous entries during online registration for the subject(s)/course(s) under a given/specified course

group/category as listed in the course structure, only the first mentioned subject/course in that category will be taken into consideration.

4.7 Subject/course options exercised through on-line registration are final and cannot be changed or inter-changed; furthermore, alternative choices will not be considered. However, if the subject/course that has already been listed for registration (by the Head of Department) in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to exercise an alternative choice - either a new subject (added in the list by the Head of the Department) or an existing subject (subject to the availability of seats). Such alternative arrangements will be made by the Head of the Department with due notification and time-framed schedule within the first week from the commencement of class-work for that semester.

4.8 Dropping of subjects/courses may be permitted only after obtaining prior approval from the faculty advisor/mentor 'within a period of 15 days' from the beginning of the current semester.

4.9 **Open Electives:** Students are to register an Open Elective (OE-I) during III year II semester, an Open Elective (OE-II) during IV year I semester, and a PG Open Elective (PG OE-I) in V year I semester from the list of Open Electives given. However, a student cannot opt for an Open Elective offered by the parent department, if it is already listed under any category (Professional Core, Professional Elective, Mandatory Courses, etc) in any semester (including forthcoming semesters).

4.10. **Professional Electives:** The students have to choose six Professional Electives from the list of Professional Electives given in the course structure.

4.11 A student shall register for a **Real-Time or Field-Based Research Project** in II year II semester.

4.12 Students shall register for **Industry Oriented Mini Project/Internship/Skill Development Course** immediately after the end examinations of II year II semester and pursue it during summer vacation and continue through III year I and II semesters with regular course work not being affected by the same.

4.13 Undergraduate Major Project (UG Major Project) work shall be carried out in two stages: **Project Stage I** and **Project Stage II**. A student shall register for the UG Major Project during the IV year I semester, as per the instructions of the project guide/supervisor assigned by the Head of the Department and shall continue through IV year I and II semesters.

## **5.0 Subjects/ courses to be offered**

5.1 A subject/course may be offered to the students, only if a minimum of 15 students opt for it.

5.2 More than one faculty member may offer the same subject.

5.3 A lab/practical may be included with the corresponding theory subject in the same semester) in any semester.

5.4 If more students opt for a particular subject/course, then the priority shall be given to students firstly on 'first come first serve' basis (i.e., based on the time of online entry) and secondly based on CGPA (student who has higher CGPA is given more preference).

5.3 If more students opt for a particular subject/course then the concerned Head of the Department shall decide whether or not to offer such a subject/course for two or more sections.

5.4 In case of options coming from students of other departments/branches/disciplines (not considering open electives), priority shall be given to the student of the 'parent department'.

**6.0 Attendance requirements:**

**6.1** A student is eligible to appear for the Semester End Examinations if the student acquires a minimum of 75% of attendance in aggregate of all the subjects/courses (including mandatory or non-credit courses) in that semester. Two periods of attendance for each theory subject shall be given, if the student appears in the mid-term examination.

**6.2** Shortage of attendance up to 10% (65% and above, and below 75%) can be condoned in each semester by the College Academic Committee on genuine and valid grounds (considering the days of attendance in sports, games, NCC and NSS activities and days of absence due to medical reasons) based on the student's representation with supporting evidence.

**6.3** A stipulated fee is levied on students whose shortage of attendance is condoned.

**6.4** Shortage of attendance below 65% in aggregate shall in no case be condoned.

**6.5** Students whose shortage of attendance is not condoned in a semester are not eligible to appear for Semester End Examinations of the semester; they shall be detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. Furthermore, marks earned in CIE of the subjects in detained semester become void, and henceforth the subjects are not graded, and SGPA and CGPA are not calculated. They may seek re-registration for all the subjects registered in that semester in which the student got detained, by seeking readmission for the semester as and when offered; in case if there are any Professional Electives and/or Open Electives, the same may also be re-registered if offered, however, if those electives are not offered in later semesters, then alternative electives may be chosen from the same set of elective subjects offered under that category.

**6.6** However, a student fulfilling the attendance requirement in a semester is not eligible for readmission into the same.

6.7 When a student is detained due to shortage of attendance in any semester, he may be readmitted into that semester, as and when offered, with the academic regulations of the batch into which he gets readmitted to.

## 7.0 Academic Requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in Item No. 6.

7.1 A student is deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course (**Theory/Practical**) if the student secures not less than 35% (14 marks out of 40 marks) in the Continuous Internal Evaluation (CIE), not less than 35% (21 marks out of 60 marks) in the Semester End Examinations (SEE), and a minimum of 40% (40 marks out of 100 marks) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 A student is deemed to have satisfied the academic requirements and earned the credits allotted to "**Real-Time/Field-Based Research Project**" and "**Industry Oriented Mini Project/Internship/Skill Development Course**" if the student secures not less than 40% marks (i.e. 40 marks out of 100 marks) in the evaluation of the same.

A student is deemed to have failed in Real-Time/Field-Based Research Project and Industry-Oriented Mini-Project/Internship/Skill Development Course, if he (i) does not submit a report on the same or (ii) does not make a presentation of the same before the evaluation committee as per schedule, or (iii) secures less than 40% marks in evaluation of the same.

A student who is failed in either Real-Time/Field-Based Research Project or Industry-Oriented Mini-Project may reappear once for the evaluation when they are scheduled again; if the student fails again in the evaluation of 'one such reappearance', the student has to reappear for the same in the subsequent semester, as and when it is offered.

7.3 A student shall pass in a **mandatory course** if he secures not less than 40 % of marks (40 marks out of 100 marks) in the CIE. A mandatory course is not graded and does not carry credits. Only Pass/Fail shall be indicated in Grade Card.

7.4 A student is deemed to have satisfied the academic requirements and earned the credits allotted to **Project Stage-I** if the student secures not less than 40% of marks (40 marks out of 100 marks) in the evaluation of the same.

A student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-I or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in the evaluation.

A student who has failed may reappear once for evaluation when it is scheduled again; if the student fails in the evaluation of 'one such reappearance', the student has to reappear for the same in the subsequent semester, as and when it is offered.

7.5. A student is deemed to have satisfied the academic requirements and earned the credits allotted to **Project Stage-II** if the student secures not less than 35% (14 marks out of 40 marks) in the Continuous Internal Evaluation (CIE), not less than 35% (21 marks out of 60 marks) in the Semester End Examinations (SEE), and a minimum of 40% (40 marks out of 100 marks) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

The student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-II or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in either CIE or SEE or CIE+SEE taken together.

A student who has failed may reappear once for the evaluation when it is scheduled again; if the student fails again in the evaluation of "once such reappearance", the student has to reappear for the same in the subsequent semester as and when the evaluation is scheduled.

## 7.6 Promotion Rules

**Table 2. Rules of Promotion**

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.
2	First year second semester to Second year first semester	(i) Regular course of study of first year second semester.  (ii) Must have secured at least 20 credits out of 40 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student appears in those examinations or not.
3.	Second year first semester to Second year second semester	Regular course of study of second year first semester.
4	Second year second semester to Third year first semester	(i) Regular course of study of second year second semester.  (ii) Must have secured at least 48 credits out of 80 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student appears in those examinations or not.
5	Third year first semester to Third year second semester	Regular course of study of third year first semester.

6	Third year second semester to Fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 72 credits out of 120 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student appears in those examinations or not.
7	Fourth year first semester to Fourth year second semester	Regular course of study of fourth year first semester.

7.7 A student detained due to lack of credits (as mention in Table 3), shall be promoted to the next year of study only after acquiring the required number of credits with the academic regulations of the batch into which he gets admitted to.

7.8 A student is deemed to have satisfied the academic requirements of B.Tech if the student fulfills the following requirements:

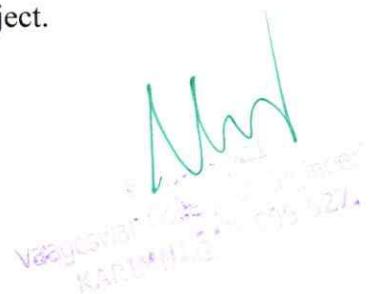
- i) The student registers all courses/subjects covering **160** credits as specified and listed in the course structure.
- ii) The student fulfills all the attendance and academic requirements for 160 credits.
- iii) The student earns all 160 credits by securing 'C' grade or above in each subject.
- iv) The student scores **CGPA  $\geq 5.0$**  at the end of the B.Tech course.
- v) The student passes in all the mandatory courses.

7.9 The performance of the student in the 160 credits shall be considered for the calculation of the final CGPA (**at the end of undergraduate programme**), and shall be indicated in the grade card / marks memo of IV-year II semester.

7.10 If a student registers for 'additional/extra subjects' (in the parent department or other departments/branches of engineering) other than the subjects listed in the course structure of parent department totaling above 160 credits, then the performance in those 'extra subjects' although evaluated and graded using the same procedure as that of courses listed in the course structure will not be considered while calculating the SGPA and CGPA. For '**extra subjects**' registered, grade point and letter grade will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations of Items 6, 7.1 and 7.1 above.

7.11 A student eligible to appear in the Semester End Examination for any subject/course, but is absent or failed (thereby failing to secure '**C grade or above in UGP and 'B' grade or above in PGP**) may reappear for that subject/course in the supplementary examination as and when conducted. In such cases, marks earned in CIE in that subject/course will be carried over, and added to the marks obtained in the supplementary SEE for evaluating performance in that subject.

## 8.0 Evaluation - Distribution and Weightage of Marks



**8.1** The performance of a student in **Theory/Practical/Project Stage-II** will be evaluated for 100 marks each, with 40 marks allotted for CIE and 60 marks for SEE.

**8.2** **Continuous Internal Evaluation of a Theory subject** is done through mid-term examinations for 30 marks, assignments for 5 marks and viva-voce/PPT/Poster Presentation/Case Study on a topic in the concerned subject for 5 marks during a semester as follows:

- (i) There shall be two mid-term examinations during the semester conducted for 30 marks consisting of two parts with a total duration of 2 hours: Part – A for 10 marks and Part – B for 20 marks.
- (ii) Part A is an objective paper or a quiz and shall consist of multiple-choice questions, fill-in the blanks, match the following, etc. for a total of 10 marks.
- (iii) Part B is a descriptive paper and shall contain 6 questions out of which, the student needs to answer 4 questions each carrying 5 marks.
- (iv) While the first mid-term examination shall be conducted for the first 50% syllabus, the second mid-term examination shall be conducted for the remaining 50% of the syllabus. The average of the two mid-term examinations shall be taken as final marks.
- (v) Two assignments are evaluated for 5 marks each. The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The assignments shall be given by the subject teachers. The average of the two assignments shall be taken as the final marks.
- (vi) The remaining 5 marks may be evaluated by conducting viva-voce in the subject or by evaluating the performance of the student in PPT/Poster/Case-Study presentation on a topic in the concerned subject before second mid-term examination.

**8.3** **The Semester End Examination for theory subjects** will be conducted by the college examination branch for 60 marks consisting of two parts: Part - A of 10 marks and Part-B of 50 marks.

- (i) Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks.
- (ii) Part-B consists of ten questions (numbered from 2 to 11) with two questions from each unit with “either” “or” choice. This means that the student should answer five questions from either of the two questions from each unit.
- (iii) The duration of Semester End Examination is 3 hours.

**Note: For the subject, Computer Aided Engineering Graphics, the pattern of evaluation for CIE and SEE is same as that of a theory subject.**

**8.4 Continuous Internal Evaluation of a practical subject** is done for 40 marks during the semester as follows:

- (i) A write-up on day-to-day experiments in the laboratory (in terms of aim, components/procedure, expected outcome) shall be evaluated for 10 marks
- (ii) 10 marks are awarded either for the performance in viva-voce (or) case study presentation (or) application development (or) poster presentation.
- (iii) Internal practical examination shall be conducted by the concerned laboratory teacher for 10 marks.
- (iv) The remaining 10 marks are awarded for laboratory project, which consists of the design (or) software/hardware model presentation (or) app development (or) prototype presentation at the end of the completion of laboratory course and before semester end practical examination.

**8.5 The Semester End Examination for a practical subject** shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed by the Principal/Vice-Principal.

The Semester End Examination (SEE) for a practical subject shall be held for 3 hours for a total of 60 marks evaluated as follows:

- (i) 10 marks for write-up
- (ii) 15 marks for experiment/program
- (iii) 15 marks for evaluation of results
- (iv) 10 marks for presentation on another experiment/program in the same laboratory course and
- (v) 10 marks for viva-voce on concerned laboratory course.

**8.6 Mandatory/Non-Credit/Audit Courses** are evaluated for 100 internal marks. A student shall secure 40% of marks (40 marks out of 100 marks) in the CIE for passing the same.

**8.7** The student is eligible to appear in a SEE of a Theory/Practical subject if the student scores  $\geq 35\%$  of marks (i.e. 14 marks out of 40 marks) in CIE. In case, the student appears in a SEE without scoring a minimum of 35% of marks in CIE, his performance in SEE for that subject shall stand cancelled in spite of appearing in the SEE.

**8.8** In each of the Theory/Practical subjects the student shall earn 35% of marks (i.e. 14 marks out of 40 marks) in CIE, 35% of marks (i.e. 21 marks out of 60) in SEE and a total of 40% of marks (i.e. 40 marks out of 100 marks) in CIE and SEE taken together.

**8.9** The evaluation of courses having **only CIE** in I year I semester and II year II semester is as follows:

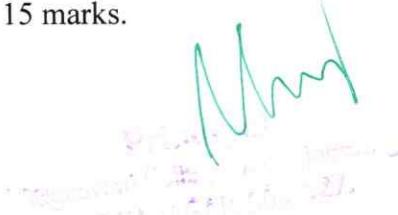
- **Elements of CE/EEE/ME/ECE/CSE/Chem. Engg./Met. Engg.** in I year I semester is evaluated for **50 marks**. The CIE for 50 marks shall be done through first and second mid-term examinations. The average marks of two mid-term examinations is taken as final marks in CIE. Student shall have to earn 40% i.e. 20 marks out of 50 marks in the average of two mid-term examinations. **There shall be no external evaluation.** The student is deemed to have failed, if he (i) is absent as per schedule, or (ii) secures less than 40% marks in this course.

**For CSE/CSE (AI & ML),** the CIE is done for 50 marks as follows:

- There shall be two mid-term examinations during the semester conducted for 40 marks consisting of two parts with a total duration of 2 hours: Part A for 20 marks and Part B for 20 marks.
- Part A is an objective paper or a quiz and shall consist of multiple-choice questions, fill-in-the blanks, match the following, etc. for a total of 20 marks.
- Part B is a descriptive paper and shall contain 6 questions out of which, the student needs to answer 4 questions each carrying 5 marks.
- While the first mid-term examination shall be conducted for the first 50% syllabus, the second mid-term examination shall be conducted for the remaining 50% of the syllabus. The average of the two mid-term examinations shall be taken as final marks.
- Two assignments are evaluated for 5 marks each. The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The assignments shall be given by the subject teachers. The average of the two assignments shall be taken as the final marks.
- The remaining 5 marks may be evaluated by conducting viva-voce in the subject or by evaluating the performance of the student in PPT/Poster/Case-Study presentation on a topic in the concerned subject before second mid-term examination.

**For all other branches,** the CIE is done for 50 marks as follows:

- A write-up on day-to-day experiments in the laboratory (in terms of aim, components/procedure, expected outcome) shall be evaluated for 10 marks
- 10 marks are awarded either for the performance in viva-voce (or) case study presentation (or) application development (or) poster presentation.
- Internal practical examination shall be conducted by the concerned laboratory teacher for 15 marks.



- The remaining 15 marks are awarded for laboratory project, which consists of the design (or) model presentation (or) prototype presentation at the end of the completion of laboratory course and before semester end practical examination.
- **Real-Time/Field-Based Research Project** in II year II semester is evaluated for **50 marks**. The internal evaluation for 50 marks shall take place during the first and second mid-term examinations. The average marks of two mid-term examinations is taken as final marks in CIE. Student shall have to earn 40% i.e. 20 marks out of 50 marks in the average of the two mid-term examinations. There shall be no external evaluation. The student is deemed to have failed, if he (i) does not submit a report on the Project, or (ii) does not make a presentation of the same before the internal committee as per schedule, or (ii) secures less than 40% marks in this course.

**8.10** A student shall undergo **Industry Training or do Internship/Industry-Oriented Mini-Project or attend a Skill Development Course (SDC) or publish a paper in reputed journal** and register for the same immediately after II year II semester end examinations and pursue it during summer vacation/semester break and continue through III year I and II semesters without the regular course work being affected by the same.

The report of the same may be submitted and presented before the committee in III year II semester before SEEs which shall be evaluated for **100 marks**.

The committee consists of an external examiner, Head of the Department, supervisor from industry (if any) for the Industry-Oriented Mini-Project (or) Internship, an internal supervisor and a senior faculty member of the department.

There shall be **no internal marks** for Industry Training (or) Internship (or) Mini-Project (or) Skill Development Courses (or) Paper Presentation in reputed journal.

**8.11 UG Major Project work** shall be carried out in two stages: Project Stage I and Project Stage II.

**8.12 Project Stage I** is initiated at the beginning of the IV year I semester. A report in consultation with the project supervisor allotted by the Head of the department shall be submitted by the student. The report shall consist of abstract, details of the project, literature review, objectives and plan of action and presented before the departmental committee for evaluation.

The departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate and approve the project work before second mid-term examination of IV year I semester.

The student is not eligible to register for the UG Major Project work if he does not submit a report on Project Stage I or does not make a presentation of the same before the evaluation committee as per schedule.

Project Stage I shall be evaluated for **100 internal marks** (CIE) by the departmental committee. A student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-I or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in the evaluation.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails again in the ‘one reappearance’ also, he has to reappear for the same in the next semester as and when it is scheduled.

**8.13 Project Stage II** is the actual implementation of the project work during IV year II semester. The student shall submit a Project Report at the end of IV year II semester.

For Project Stage II, **60 marks of SEE** shall be evaluated by an external examiner and **40 marks of CIE** shall be evaluated by the departmental committee and the project supervisor.

Out of 40 marks for CIE, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work for 20 marks and project supervisor shall evaluate for 20 marks.

The topics for Industry-Oriented Mini-Project/Internship/SDC etc. and the UG Major Project work shall be different.

The student is deemed to have failed, if he (i) does not submit a report on the project, or (ii) does not make a presentation of the same before the external examiner as per schedule, or (iii) secures less than 35% in either of the CIE or SEE or (iv) secures less than 40% marks in the sum total of the CIE and SEE of project stage-II taken together.

For conducting viva-voce of the UG Major Project, Principal selects an external examiner from the list of experts in the relevant branch submitted by the HoD.

A student, who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails again in the ‘one reappearance’ he has to reappear for the same in the subsequent semester, as and when it is scheduled.

**8.14** If the marks secured by a student in the Continuous Internal Evaluation in a subject/course are less than 35% then the student must re-register in the failed subject within four weeks of commencement of the class work in the next academic year. (Head of the Department shall ensure no overlaps in the time-tables of the re-registered subject and the time-table of the semester to which the student currently belongs to)

In the event of the student taking this chance, his Continuous Internal Evaluation marks for 40 and Semester End Examination marks for 60 obtained in the previous attempt stand cancelled.

A student shall be given a one-time chance to re-register for a maximum of two subjects in addition to the subjects/courses of the current/regular semester.

## 9.0 Grading Procedure

9.1 Grades will be awarded to indicate the performance of students in each of the Theory Subjects, Laboratory/Practical subjects, Real-Time/Field-Based Research Project, Industry-Oriented Mini-Project/Internship/SDC, Minor Courses, Project Stage I, and Project Stage II, etc. based on the percentage of marks obtained in CIE+SEE as specified in item 8 above.

9.2 As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

**Table 3. Grading Procedure of UGP**

<b>% of Marks Secured in a Subject/Course (Class Intervals)</b>	<b>Letter Grade (UGC Guidelines)</b>	<b>Grade Points</b>
Greater than or equal to 90%	O (Outstanding)	10
Greater than 80 and less than 90%	A <sup>+</sup> (Excellent)	9
Greater than 70 and less than 80%	A (Very good)	8
Greater than 60 and less than 70%	B <sup>+</sup> (Good)	7
Greater than 50 and less than 60%	B (Average)	6
Greater than 40 and less than 50%	C (Pass)	5
Below 40%	F (Fail)	0
Absent	Ab	0

9.3 A student who has obtained an 'F' grade in any subject is deemed to have '**Failed**' and is required to reappear as a 'supplementary student' in the Semester End Examination, as and when conducted. In such cases, marks scored in CIE (internal marks) in those subjects will remain the same as those obtained earlier.

9.4 To a student who has not appeared for an examination in any subject, '**Ab**' grade will be allocated in that subject, and he is deemed to have '**Failed**'. A student will be required to appear as a 'supplementary student' in the Semester End Examination, as and when conducted. In such a case, the marks scored in CIE (internal marks) in those subjects will remain the same as those obtained earlier.

9.5 A letter grade does not indicate any specific percentage of marks secured by the student it only indicates the range of percentage of marks.

9.6 A student earns Grade Point (GP) in each subject/course, on the basis of the letter grade secured in that subject/course (excluding Mandatory Courses). The corresponding Credit Points (CP) are computed by multiplying the grade point with credits for that particular subject/course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{No. of Credits for a Course}$$

9.7 A student passes the subject/ course only when **GP  $\geq$  5 ('C' grade or above)**

9.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points ( $\Sigma CP$ ) secured from all subjects/courses registered in a semester, by

the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as:

$$SGPA = \frac{\sum_{i=1}^N C_i G_i}{\sum_{i=1}^N C_i}$$

where ‘ $i$ ’ is the subject indicator index (takes into account all subjects in a semester), ‘ $N$ ’ is the number of subjects registered in the semester (as specifically required and listed in the course structure of the parent department),  $C_i$  is the number of credits allotted to the  $i^{\text{th}}$  subject, and  $G_i$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for the  $i^{\text{th}}$  subject.

**9.9** The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \frac{\sum_{j=1}^M C_j G_j}{\sum_{j=1}^M C_j}$$

where ‘ $M$ ’ is the total number of subjects (as specifically required and listed in the course structure of the parent department) the student has ‘registered’ from the 1<sup>st</sup> semester onwards up to and inclusive of the semester S, ‘ $j$ ’ is the subject indicator index (takes into account all subjects from 1 to S semesters),  $C_j$  is the number of credits allotted to the  $j^{\text{th}}$  subject, and  $G_j$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for the  $j^{\text{th}}$  subject. After registration, and completion of I year I semester however, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

**Table 4. Illustration of calculation of SGPA:**

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	21			152

$$\text{SGPA} = 152/21 = 7.24$$

**Table 5. Illustration of Calculation of CGPA up to 3rd Semester**

Semester	Course/ Subject Title	Credits Allotted	Letter Grade Secured	Corresponding Grade Point (GP)	Credit Points (CP)
I	Course 1	3	A	8	24
I	Course 2	3	O	10	30
I	Course 3	3	B	6	18
I	Course 4	4	A	8	32
I	Course 5	3	A+	9	27
I	Course 6	4	C	5	20
II	Course 7	4	B	6	24
II	Course 8	4	A	8	32
II	Course 9	3	C	5	15
II	Course 10	3	O	10	30
II	Course 11	3	B+	7	21
II	Course 12	4	B	6	24
II	Course 13	4	A	8	32
II	Course 14	3	O	10	30
III	Course 15	2	A	8	16
III	Course 16	1	C	5	5
III	Course 17	4	O	10	40
III	Course 18	3	B+	7	21
III	Course 19	4	B	6	24
III	Course 20	4	A	8	32
III	Course 21	3	B+	7	21
	<b>Total Credits</b>	<b>69</b>		<b>Total Credit Points</b>	<b>518</b>

$$\mathbf{CGPA = 518/69 = 7.51}$$

The calculation process of CGPA illustrated above will be followed for each subsequent semester until 8<sup>th</sup> semester. The CGPA will be indicated in the grade card at the end of the 8<sup>th</sup> semester.

- 9.10** For merit ranking or comparison purposes or any other listing, only the 'rounded off' values of the CGPAs will be used.
- 9.11** SGPA will be mentioned in the semester Memorandum of Grades if all subjects of that semester are passed in first attempt. Otherwise the SGPA shall be mentioned only on the Memorandum of Grades of the last attempt in which he passed the remaining failed subjects in a semester. However, mandatory courses will not be taken into consideration for grading and calculation of SGPA and CGPA.

## 10.0 Passing Standards

**10.1** A student shall be declared successful or ‘passed’ in a semester if he secures a GP  $\geq 5.0$  (‘C’ grade or above) in every subject/course of UGP and GP  $\geq 6.0$  (‘B’ grade or above) in every subject/course of PGP in that semester

**10.2** After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, number of credits), grade earned, credits earned, SGPA and CGPA. **There is no exemption of credits in any case.**

## 11.0 Declaration of results

**11.1** Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

**11.2** For computing final % of marks equivalent to the computed final CGPA, the following formula may be used:

$$\% \text{ of marks} = (\text{final CGPA} - 0.5) \times 10$$

## 12.0 Award of Degree

**12.1** A student who registers for all the specified subjects/courses as listed in the course structure and secures the required number of 160 credits (with CGPA  $\geq 5.0$ ), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘qualified’ for the award of B.Tech degree in the branch of engineering selected at the time of admission.

**12.2** A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

**12.3** A student with final CGPA (at the end of the undergraduate programme)  $\geq 8.00$ , and fulfilling the following conditions - shall be placed in ‘First Class with Distinction’. However, he

- (i) Should have passed all the subjects/courses in ‘First Appearance’ within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should not have been detained or prevented from writing the Semester End Examinations in any semester due to shortage of attendance or any other reason.

A student not fulfilling any of the above conditions with final CGPA  $\geq 8$  shall be placed in ‘First Class’.

**12.4** Students with final CGPA (at the end of the undergraduate programme)  $\geq 7.0$  but  $< 8.00$  shall be placed in ‘First Class’.

**12.5** Students with final CGPA (at the end of the undergraduate programme)  $\geq 6.00$  but  $< 7.00$  shall be placed in ‘Second Class’.

**12.6** All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the undergraduate programme)  $\geq 5.00$  but  $< 6$ , shall be placed in ‘pass class’.

**12.7** A student with final CGPA (at the end of the undergraduate programme)  $< 5.00$  will not be eligible for the award of the degree.

**12.8** Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of ‘**Gold Medal**’.

#### **12.9 Award of 2-Year B.Tech. Diploma Certificate**

- i) A student who exits after two years shall be awarded **2-Year UG Diploma Certificate** in the concerned discipline of engineering if the student completes all academic and attendance requirements, and earns 80 credits up to B.Tech II year II semester within 4 years from the date of admission.
- ii) A student who exits after two years and is awarded 2-Year UG Diploma Certificate is allowed to rejoin after an year and complete the remaining years of study of 4-Year B.Tech program along with new batch of students by registering the courses/subjects of III year I semester before commencement of the class work for that semester.
- iii) The student who exits the 4-Year B.Tech program after II year of study and chooses to rejoin the B.Tech program must surrender the 2-Year UG Diploma Certificate awarded to him subject to the eligibility for completion of Course/Degree.
- iv) A student may be permitted to take a break of one year after the completion of II year II semester or III year II semester and allowed to reenter the course in **next academic year** to complete the remaining years of study and fulfill all the academic credentials within a stipulated duration i.e. double the duration of the course (i.e. within 8 academic years for 4-year program).

#### **13. B. Tech. with Minor program**

- A student shall be awarded B.Tech with Minor, if he/she earns a minimum of 18 credits in the respective minor program in addition to the 160 credits of 4 year B.Tech program. These credits shall be acquired by either registering courses in the respective minor program offered by the college or through MOOCs equivalent to the courses offered by the university.
- A student enrolled in a B.Tech program may do a Minor in another area (ex., *B. Tech. in Mechanical Engineering with Minor in AI&ML*).
- The additional **18 credits for B.Tech with Minor program may be obtained** between the **5<sup>th</sup>** and **8<sup>th</sup>** semester within the 4-year B. Tech program.

##### **13.1 The following are the recommended areas for Minor programs:**

Students can choose only one minor program (if offered) from the following programs offered by the various departments.

S. No.	Minor Program	Eligible branch of students	@ Offering Department
1.	Artificial Intelligence & Machine Learning	All branches, except B. Tech. CSE (AI&ML)	CSE
2.	Cyber Security	All branches	CSE
3.	Data Science	All branches	CSE
4.	IoT	All branches	ECE
5.	Robotics	All branches	ME
6.	Electric Vehicles	All branches	EEE
7.	Construction Technology	All branches.	CE

**(a): As per AICTE guidelines.**

### 13.2 Academic Regulations for B. Tech. with Minor Program:

- a) The duration of the course and all the **academic regulations are on par with regular 4-years B. Tech. program.**
- b) The weekly instruction hours, internal and external evaluation, and award of grades for courses registered in minor program are on par with courses of 4-year B.Tech. program.
- c) After registering for the Minor program, if a student is unable to earn the required 18 credits in a specified duration (twice the duration of the course i.e. 8 years), he/she shall not be awarded Minor degree. However, if the student earns the required 160 credits of B.Tech., he/she will be awarded only B. Tech degree in the concerned branch.
- d) There is no transfer of credits from Minor program to regular B.Tech program and vice-versa.
- e) The additional 18 credits shall be earned by either registering courses in the respective minor program offered by the host department in the college or do a course in MOOCs platform.
- f) For the course selected under MOOCs platform following guidelines may be followed:
  - i. Prior to registration of MOOCs courses, formal approval of the courses by the University/College is essential. The approval is based on the

parameters like the institute / agency offering the course, syllabus, credits, duration of the programme and mode of evaluation etc.

- ii. Minimum credits for MOOCs course must be equal to or more than the credits specified in the Minor course structure provided by the University/College.
- iii. Only grades/marks above pass-grade/pass-marks shall be considered for inclusion of grades in minor grade memo.
- iv. Any expenses incurred for the MOOCs courses are to be met by the students only.

g) A student after registering for a minor program can withdraw at any time. On withdrawal, a student will be awarded only B.Tech in the concerned branch if he fulfills all academic requirements and earns 160 credits.

- i) A student can choose only one minor program along with his/her basic engineering degree. A student who chooses an honours program is not eligible to choose a minor program and vice-versa.
- j) A student can graduate with a minor if he/she fulfills the requirements of regular B.Tech. program and the requirements of minor program.

### 13.3. Eligibility Conditions to Register for A Minor Program

- i) Students who have earned all the credits (no active backlogs) till II year I semester at the time of entering III year I semester are eligible to register for minor program.
- ii) A prior approval of mentor and Head of the Department for enrolment into minor program is mandatory before the commencement of III year I semester.
- iii) Registration to a minor program is purely the choice of the students. Only top 50% of the total class in each specialization are eligible to register for minor programs. The merit is based on the overall percentage of **marks without active backlogs up to 3<sup>rd</sup> semester (II-year I semester)**.

### 13.4 Registration for the Courses in Minor Program

- i) At the beginning of each semester, just before the commencement of classes, students shall register for the courses/subjects listed in the course structure of minors program along with the courses/subjects of regular B.Tech. program.
- ii) The maximum number of courses/subjects a student can register in a minor program in a semester is limited to two (three in case a laboratory course is included in the course structure for the semester).
- iii) The registration fee is **Rs. 1000/- per one credit.**

### 14.0 Withholding of results

**14.1** If the student has not paid the fees to the University at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld and the student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

## **15.0 Transitory Regulations**

### A. For students detained due to shortage of attendance:

1. A Student who has been detained in I year of R18 regulations due to lack of attendance, shall be permitted to join I year I semester of R22 regulations and he is required to complete the study of B.Tech+M.Tech programme within the stipulated period of ten academic years from the date of first admission in I year.
2. A student who has been detained in any semester of II, III and IV years of R18 regulations for want of attendance shall be permitted to join the corresponding semester of R22 regulations and is required to complete the study of B.Tech+M.Tech within the stipulated period of ten academic years from the date of first admission in I year. The R22 academic regulations under which a student has been readmitted shall be applicable to that student from that semester. See rule (C) for further Transitory Regulations.

### B. For students detained due to shortage of credits:

3. A student of R18 regulations who has been detained due to lack of credits shall be promoted to the next semester of R22 regulations only after acquiring the required number of credits as per the corresponding regulations of his/her first admission. The total credits required are 160 including both R18 & R22 regulations. The student is required to complete the study of B.Tech. within the stipulated period of eight academic years from the year of first admission. The R22 academic regulations are applicable to a student from the year of readmission. See rule (C) for further Transitory Regulations.

### C. For readmitted students in R22 Regulations:

1. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
2. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R22 regulations. **There is NO exemption of credits in any case.**
3. If a student is readmitted to R22 Regulations and has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R22 regulations will be substituted by another subject suggested by the college.

Note: If a student readmitted to R22 regulations and has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for the subjects in R22 regulations, the student shall attend remedial classes conducted by the department to cover those subjects/topics.

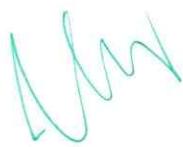
## **16.0 Student Transfers**

- 16.1** There shall be no branch transfers after the completion of admission process.
- 16.2** There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.

## **17.0 Scope**

- 17.1** The academic regulations should be read as a whole, for the purpose of any interpretation.
- 17.2** In case of any ambiguity in the academic regulations, course structure and/or syllabus, students may contact the chairperson, Board of Studies and Principal for clarification.
- 17.3** The university/college may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the authorities of the university/college.
- 17.4** Where the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.
- 17.5** Where the words “subject” or “subjects”, occur in the regulations, they also imply “course” or “courses”.

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## **18. Academic Regulations for B.Tech (Lateral Entry Scheme) from the Academic Year 2023-2024**

### **18.1. Eligibility for the award of B.Tech Degree (LES)**

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

- 18.2 The student shall register for 120 credits and secure 120 credits with CGPA  $\geq 5$  from II year to IV-year for the award of B.Tech degree.
- 18.3. The students, who fail to fulfill the requirement for the award of the degree in six academic years from the year of admission, shall be forfeited their seat in B.Tech.
- 18.4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech (LES).

### **18.5. Promotion rule**

<b>S. No</b>	<b>Promotion</b>	<b>Conditions to be fulfilled</b>
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 24 credits out of 40 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student appears in those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 48 credits out of 80 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the students appears in those examinations or not.
5.	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Tech. 4-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).
7. LES students are not eligible for 2-Year B. Tech. Diploma Certificate.

### 19. Malpractices Rules

**The following malpractice rules are applicable to Internal Examinations as well as SEE of Regular as well as Supplementary Examinations:**

	<b>Nature of Malpractices</b>	<b>Punishment</b>
	<b>If the candidate:</b>	
1 (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of the same. Material shall also include any marks on the body of the candidate which can be used as an aid in the subject of the examination	Expulsion from the examination hall and cancellation of the performance in that subject only.
1 (b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the candidate is to be cancelled.

3	Impersonates any other candidate in connection with the examination.	<p>The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practical and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.</p>
4	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.</p>
5	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	<p>Cancellation of the performance in that subject.</p>



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Vaageswari College of Engineering  
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6	<p>Refuses to obey the orders of the Chief Superintendent / Assistant – Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall. Organizes a walk out or instigates others to walk out, or threatens the officer-in-charge or any person on duty in or outside the examination hall.</p> <p>Assaults the officer-in-charge or any person on duty in or outside the examination hall or any of his relations whether by words, either spoken or written or by signs. Indulges in any other act of misconduct or mischief which results in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.</p>	<p>In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.</p>
7	<p>Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.</p>

8	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester / year examinations.
12	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the College / University for further action or punishment	

## **ACADEMIC REGULATIONS FOR B.TECH (LATERAL ENTRY SCHEME) FROM THE AY 2023-24**

### **1. Eligibility for the award of B.Tech Degree (LES)**

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

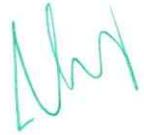
2. The student shall register for 120 credits and secure 120 credits with  $CGPA \geq 5$  from II year to IV-year B.Tech. programme (LES) for the award of B.Tech. degree.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Tech.
4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech. (LES).

### **5. Promotion rule**

S. No	Promotion	Conditions to be fulfilled
1	<b>Second year first semester to second year second semester</b>	<b>Regular course of study of second year first semester.</b>
2	<b>Second year second semester to third year first semester</b>	<b>(i) Regular course of study of second year second semester.</b> <b>(ii) Must have secured at least 24 credits out of 40 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.</b>
3	<b>Third year first semester to third year second semester</b>	<b>Regular course of study of third year first semester.</b>
4	<b>Third year second semester to fourth year first semester</b>	<b>(i) Regular course of study of third year second semester.</b> <b>(ii) Must have secured at least 48 credits out of 80 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.</b>
5	<b>Fourth year first semester to fourth year second semester</b>	<b>Regular course of study of fourth year first semester.</b>

6. All the other regulations as applicable to B. Tech. 4-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).
7. LES students are not eligible for 2-Year B. Tech. Diploma Certificate.

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## Malpractices Rules

### Disciplinary Action For / Improper Conduct in Examinations

	<b>Nature of Malpractices/Improper conduct</b>	<b>Punishment</b>
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year.  The hall ticket of the student is to be cancelled and sent to the University.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The

		<p>student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.</p>
4.	<p>Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.</p>
5.	<p>Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.</p>	<p>Cancellation of the performance in that subject.</p>
6.	<p>Refuses to obey the orders of the chief superintendent/assistant – superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which</p>	<p>In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.</p>

	result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possesses any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.  Person(s) who do not belong to the college will be handed over to the police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject

		and all other subjects the student has already appeared for including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared for including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award a suitable punishment.	

#### **Malpractices identified by squad or special invigilators**

1. Punishments to the students as per the above guidelines.
2. Punishment for Institutions: (if the squad reports that the college is also involved in encouraging malpractices)
  - a. A show-cause notice shall be issued to the college.
  - b. Impose a suitable fine on the college.
  - c. Shifting the examination center from one college to another college for a specific period of not less than one year.

  
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**Academic Regulations of M. Tech (Regular/Full Time) Programmes,  
2022-23 (R22)(CBCS)**

**(Effective for the students admitted into I Year from the Academic Year 2022-23 and onwards)**

**1.0 Post-Graduate Degree Programmes In Engineering & Technology (PGP in E & T)** Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two** Years (**Four** Semesters) full-time Master of Technology (M. Tech.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different branches of Engineering and Technology with different specializations.

**2.0 Eligibility for Admissions**

**2.1** Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M. Tech programme.

**2.2** Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GATE Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGECE) for M. Tech. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

**2.3** The medium of instructions for all PG Programmes will be **ENGLISH** only.

**3.0 M. Tech. Programme (PGP in E & T) Structure**

**3.1** The M. Tech. Programs in E & T of JNTUH are of Semester pattern, with **Four** Semesters consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.

**3.2** The two-year M. Tech. program consists of **68** credits and the student has to register for all **68** credits and earn all **68** credits for the award of M. Tech. degree. There is **NO** exemption of credits in any case.

**3.3** The student shall not take more than four academic years to fulfill all the academic requirements for the award of M. Tech. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M. Tech. programme.

**3.4** **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

**3.4.1 Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/Drawing Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.

**3.4.2 Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Non-credit Audit Courses**) will not carry any credits.

### 3.4.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in E & T (M. Tech. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the parent discipline/department/ branch of Engineering
		Dissertation	M. Tech. Project or PG Project or Major Project
		Mini Project with Seminar	Seminar based on core contents related to Parent Discipline/ Department/ Branch of Engineering
2	Elective Courses (EE)	PE Professional Electives	Includes elective subjects related to the parent discipline/department/branch of Engineering
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/department/ branch of Engineering
3	<b>Mandatory Courses</b>	--	<b>Non-Credit Audit Courses</b>

## 4.0 Course Registration

**4.1** A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the PostGraduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.

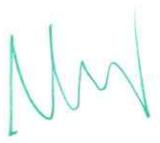
**4.2** The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.

**4.3** A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).

**4.4** If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.

**4.5** Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to

unforeseen or unexpected reasons, then the Student will be allowed to have alternate



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choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

#### **5.0 Attendance Requirements**

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1** Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (**also mandatory Audit Courses**) including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. ***This attendance should also be included in the attendance uploaded every fortnight in the University Website. The attendance of mandatory Audit Courses should be uploaded separately to the University.*** A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2** A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3** **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4** A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5** Shortage of Attendance below 65% in any subject shall in **no case be condoned**.
- 5.6** A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained in that Subject(s), and is not eligible to write Semester End Examination(s) of such Subject(s), (in case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7** A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8**
  - a)** A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory (non-credit audit) course)** in first Year I semester for promotion to first Year II Semester.
  - b)** A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory (non-credit audit) course)** in first Year II semester for promotion to second Year I Semester.

#### **6.0 Academic Requirements**

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than:

- 40% of Marks (24 out of 60 marks) in the Semester End Examination;
- 40% of Marks in the internal examinations (16 out of 40 marks allotted for CIE); and
- A minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades this implies securing 'B' Grade or above in a subject.

**6.2** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Mini Project with seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.

**6.3** A student shall register for all subjects for total of **68** credits as specified and listed in the course structure for the chosen specialization, put in the required attendance and fulfill the academic requirements for securing **68** credits obtaining a minimum of 'B' Grade or above in each subject, and all **68** credits securing Semester Grade Point Average (**SGPA**)  $\geq 6.0$  (in each semester) and final Cumulative Grade Point Average (**CGPA**) (i.e., CGPA at the end of PGP)  $\geq 6.0$ , and shall **pass all the mandatory Audit Courses** to complete the PGP successfully.

**Note:** (1) **The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.**

(2) **CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters**

**6.4** Marks and Letter Grades obtained in all those subjects covering the above specified **68** credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.

**6.5** If a student registers for extra subject(s) (in the parent department or other departments/ branches of Engineering) other than those listed subjects totaling to **68** credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required **68** credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.

**6.6** When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.

**6.7** A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.

**6. 8** A Student who fails to earn **68** credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M. Tech. programme and his admission **shall stand**

**cancelled.**

## 7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

**7.1** The performance of a student in every subject/course (including practicals and Project) will be evaluated for 100 marks each, with 40 marks allotted for CIE (Continuous Internal Evaluation) and 60 marks for SEE (Semester End-Examination). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction.

**7.2** In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) **Part – A** for 10 marks, ii) **Part – B** for 20 marks with a total duration of 2 hours as follows:

1. Mid-Term Examination for 30 marks:
  - a. Part - A: Objective/quiz paper for 10 marks.
  - b. Part – B: Descriptive paper for 20 marks.

The objective/quiz paper is set with multiple choice, fill-in the blanks and match the following type of questions for a total of 10 marks. The descriptive paper shall contain 6 full questions out of which, the student has to answer 4 questions, each carrying 5 marks. The average of the two Mid Term Examinations shall be taken as the final marks for Mid Term Examination (for 30 marks).

The remaining 10 marks of Continuous Internal Assessment (out of 40) are distributed as:

2. Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
3. Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 5 marks.

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 5 marks before II Mid-Term Examination.

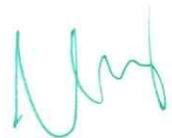
- The Student, in each subject, shall have to earn 40% of marks (i.e. 16 marks out of 40 marks) in CIE, 40% of marks (i.e. 24 marks out of 60) in SEE and Overall 50% of marks (i.e. 50 marks out of 100 marks) both CIE and SEE marks taking together.

*The student is eligible to write Semester End Examination of the concerned subject, if the student scores  $\geq 40\%$  (16 marks) of 40 Continuous Internal Examination (CIE) marks.*

*In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 40% of CIE marks (16 marks out of 40 internal marks), his performance in that subject*

*in SEE shall stand cancelled inspite of appearing the SEE.*

The details of the end semester question paper pattern are as follows:



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**7.3** The Semester End Examinations (SEE), for theory subjects, will be conducted for 60 marks consisting of two parts viz. i) **Part- A** for 10 marks, ii) **Part - B** for 50 marks.

- Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from each unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- The duration of Semester End Examination is 3 hours.

**7.4** For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 40 marks and 60 marks for semester end examination. Out of the 40 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks
2. 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.
4. The remaining 10 marks are for Laboratory Project, which consists of the Design (or) Software /Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be evaluated after completion of laboratory course and before semester end practical examination.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster / other colleges which will be decided by the examination branch of the University.

In the Semester End Examination, held for 3 hours, total 60 marks are divided and allocated as shown below:

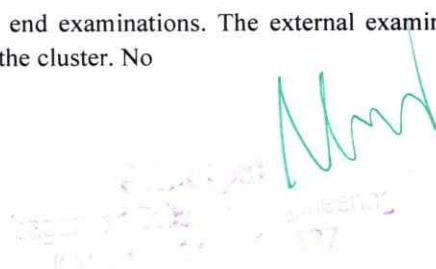
1. 10 marks for write-up
2. 15 for experiment/program
3. 15 for evaluation of results
4. 10 marks for presentation on another experiment/program in the same laboratory course and
5. 10 marks for viva-voce on concerned laboratory course.

- The Student, in each subject, shall have to earn 40% of marks (i.e. 16 marks out of 40 marks) in CIE, 40% of marks (i.e. 24 marks out of 60) in SEE and Overall 50% of marks (i.e. 50 marks out of 100 marks) both CIE and SEE marks taking together.

*The student is eligible to write Semester End Examination of the concerned subject, if the student scores  $\geq 40\%$  (16 marks) of 40 Continuous Internal Examination (CIE) marks.*

*In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 40% of CIE marks (16 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.*

**7.5** For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No



external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.

**7.6** There shall be Mini Project with Seminar during I year II semester for internal evaluation of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the seminar presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) seminar presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

**7.7** Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.

**7.8** A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Tech. programme.

**7.9** Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.

**7.10** After satisfying 7.9, a candidate must present in ***Dissertation Work Review - I***, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval ***within four weeks*** from the commencement of ***Second year First Semester***. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.

**7.11** If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.

**7.12** A candidate shall submit his Dissertation progress report in two stages at least with a gap of ***three*** months between them.

**7.13** The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC ***not earlier than 40 weeks*** from the date of approval of the Dissertation work. For the approval of DRC, the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.

**7.14** ***The Dissertation Work Review - II*** in II Year I Semester carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.

**7.15** ***The Dissertation Work Review - III*** in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is

eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted. For Dissertation Evaluation (Viva Voce) in II Year II Semester there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva- Voce) examination.

**7.16** Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - III in the next academic year only at the time of Dissertation Work Review - II (Phase I).

**7.17** After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than **30%**. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re- submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to **TWO**. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.

**7.18** Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.

**7.19** The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.

**7.20** If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.

**7.21** If the report of the examiner is satisfactory, the Head of the Department shall coordinate and decide for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.

**7.22** If he fails to fulfill the requirements as specified in 7.21, he will reappear for the Dissertation Viva-Voce examination **only after three months**. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).

**7.23** The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the

**7.24** For mandatory non-credit Audit courses, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.

**7.25** No marks or letter grades shall be allotted for mandatory non-credit Audit Courses. Only Pass/Fail shall be indicated in Grade Card.

## **8.0 Re-Admission/Re-Registration**

### **8.1 Re-Admission for Discontinued Student**

A student, who has discontinued the M. Tech. degree programme due to any reason whatsoever, may be considered for '**readmission**' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.

**8.2** If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2

**8.3** **A candidate shall be given only one-time chance to re-register and attend the classes for a maximum of two subjects in a semester**, if the internal marks secured by a candidate are less than 40% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work, in the next academic year and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

## **9.0 Examinations and Assessment - The Grading System**

**9.1** Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.

**9.2** As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

<b>% of Marks Secured in a subject/Course (Class Intervals)</b>	<b>Letter Grade (UGC Guidelines)</b>	<b>Grade Points</b>
90% and above ( $\geq 90\%, \leq 100\%$ )	O (Outstanding)	10
Below 90% but not less than 80% ( $\geq 80\%, < 90\%$ )	A <sup>+</sup> (Excellent)	9
Below 80% but not less than 70% ( $\geq 70\%, < 80\%$ )	A (Very Good)	8
Below 70% but not less than 60% ( $\geq 60\%, < 70\%$ )	B <sup>+</sup> (Good)	7
Below 60% but not less than 50% ( $\geq 50\%, < 60\%$ )	B (above Average)	6
Below 50% ( $< 50\%$ )	F (FAIL)	0
<b>Absent</b>	<b>Ab</b>	<b>0</b>

**9.3** A student obtaining 'F' Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.

**9.4** If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.

**9.5** A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

**9.6** In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

**9.7** A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

**Credit Points (CP) = Grade Point (GP) x Credits .... For a Course**

**9.8** The student passes the Subject/ Course only when he **gets  $GP \geq 6$  (B Grade or above)**.

**9.9** The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points ( $\Sigma CP$ ) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \left\{ \sum_{i=1}^N c_i g_i \right\} / \left\{ \sum_{i=1}^N c_i \right\} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department),  $c_i$  is the no. of Credits allotted to the  $i^{\text{th}}$  Subject, and  $g_i$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $i^{\text{th}}$  Subject.

**9.10** The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$CGPA = \left\{ \sum_{j=1}^M c_j g_j \right\} / \left\{ \sum_{j=1}^M c_j \right\} \dots \text{for all S Semesters registered (i.e., up to and inclusive of S Semesters, } S \geq 2),$$

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1<sup>st</sup> Semester onwards upto and inclusive of the Semester S ( obviously  $M > N$  ), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters),  $c_j$  is the no. of Credits allotted to the  $j^{\text{th}}$  Subject, and  $g_j$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $j^{\text{th}}$  Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

### Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
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*Ward*  
Fathima  
JOSNA COLLEGE OF ENGINEERING  
KARIMNAGAR-505 527.

Course 1	4	A	8	4*8 = 32
Course 2	4	O	10	4*10 = 40
Course 3	4	B	6	4*6 = 24
Course 4	3	B	6	3*6 = 18
Course 5	3	A+	9	3*9 = 27
Course 6	3	B	6	3*6 = 18
	21			159

$$\text{SGPA} = 159/21 = 7.57$$

### Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	24*7 = 168
Semester II	24	6	24*6 = 144
Semester III	24	6.5	24*6.5 = 156
Semester IV	24	6	24*6 = 144
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

## 10.0 Award of Degree and Class

**10.1** If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **68** Credits (with CGPA  $\geq 6.0$ ), shall be declared to have ‘QUALIFIED’ for the award of the M.Tech. Degree in the chosen Branch of Engineering and Technology with the specialization that he was admitted into.

## 10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Tech. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	$\geq 7.75$
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the PGP)  $< 6.00$  shall not be eligible for the Award of Degree.

## 11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

## 12.0 General

**12.1** **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

**12.2** **Credit Point:** It is the product of grade point and number of credits for a course.

**12.3** Wherever the words “he”, “him”, “his”, occur in the regulations, they shall include “she”, “her”.

**12.4** The academic regulation should be read as a whole for the purpose of any interpretation.

**12.5** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University

  
Sri Sathya  
Sageswar College of Engineering  
KARIMNAGAR-505 527.

**Academic Regulations of MBA (Regular/Full Time) Programme Under Choice Based Credit System (CBCS) 2022-23 (R22)**

**(Effective for the students admitted into I year from the Academic Year 2022-23 and onwards)**

**1.0** Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Business Administration (**MBA**) Degree programme, under CBCS at its constituent (non-autonomous) unit and affiliated colleges.

**2.0 Eligibility for Admissions**

- 2.1** Admission to the MBA programme shall be made subject to eligibility, qualification prescribed by the University from time to time.
- 2.2** Admission to the MBA programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (ICET) for MBA programme / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

- 2.3** The medium of instructions for MBA Programme will be **ENGLISH** only.

**3.0 MBA Programme Structure**

- 3.1** The MBA Programme of JNTUH is in Semester pattern, with **Four Semesters** consisting of **Two** academic years, each academic year having **Two Semesters** (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.
- 3.2** The two-year MBA program consists of 102 compulsory credits and the student has to register for all 102 credits and earn all 102 credits for the award of MBA degree. There is **NO** exemption of credits in any case.
- 3.3** The student shall not take more than **four** academic years to fulfill all the academic requirements for the award of MBA degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in MBA programme.
- 3.4** **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

**3.4.1 Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Seminar', or 'Internship', or 'Project' as the case may be.

**3.4.2 Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be



assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L)/ laboratory/practical (P) or tutorials (T) courses.
- Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations, and identified mandatory courses, if any, will not carry credits.

### 3.4.3 Subject Course Classification

All subjects/courses offered for the MBA Degree Programme is broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/Category	Course Description
1	Core Courses (CoC)	CC - Core Courses	Includes subjects related to the management
		Project Work	MBA Project or PG Project or Major Project
		Seminar /Pre-Submission Project Seminar / Summer Internship	Seminar based on core contents related to management
2	Elective Courses (EE)	PE Professional Electives	- Includes elective subjects related to the specialization
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects

### 4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the MBA, its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a

Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

## 5.0 Attendance Requirements

The programmes are offered on the basis of a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2 **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.3 Shortage of Attendance below 65% in any subject shall in **no case be condoned**.
- 5.4 A Student, whose shortage of attendance is **not condoned** in any subject(s) in any semester, is considered detained in that subject(s) and is not eligible to write Semester End Examination(s) of such subject(s) in that semester, and he has to seek re-registration for those subject(s) in subsequent semesters, and attend the same as and when offered.
- 5.5 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.6 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.7 A Candidate shall acquire minimum required attendance subject-wise in at least THREE theory subjects in each semester for promoting to next Semester.

## 6.0 Academic Requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject/course (theory / laboratory), on the basis of Internal Evaluation (for 40 marks) and Semester End Examination (for 60 marks).

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (24 out of 60 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to a subject/ course, if he secures not less than 50% of the total marks. The student is deemed to have failed, if he does not submit a report on summer internship or does not make a

presentation of the same before the evaluation committee as per schedule, in such a case, he has to reappear for the same during the supplementary examinations as and when the notification is issued, subject to item 3.2.

**6.3** A student shall register for all subjects for total of **102** credits as specified and listed in the course structure for the chosen specialization, put in the required attendance and fulfill the academic requirements for securing **102** credits obtaining a minimum of 'B' Grade or above in each subject, and all **102** credits securing Semester Grade Point Average (**SGPA**)  $\geq 6.0$  (in each semester) and final Cumulative Grade Point Average (**CGPA**) (i.e., CGPA at the end of MBA Programme)  $\geq 6.0$ , to complete the MBA Programme successfully.

**Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum 'B' grade in all the subjects.**

**(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters**

**6.4** Marks and Letter Grades obtained in all those subjects covering the above specified **102** credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.

**6.5** If a student registers for extra subject(s) (in the parent specialization or other specializations of Management) other than those listed subjects totaling to **102** credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required **102** credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.

**6.6** When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.

**6.7** A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.

**6.8** A Student who fails to earn **102** credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in MBA programme and his admission **shall stand cancelled**.

## **7.0 Evaluation - Distribution and Weightage of Marks**

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks. The MBA project work (main project viva voce) will also be evaluated for 100 marks.

**7.1** For the theory subjects 60 marks shall be awarded for the performance in the Semester End Examination and 40 marks shall be awarded for Continuous Internal Evaluation (CIE). The

Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction.

In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) **Part – A** for 10 marks, ii) **Part – B** for 15 marks with a total duration of 2 hours as follows:

1. Mid-Term Examination for 25 marks:
  - a. Part - A: Objective/quiz paper/Short Note for 10 marks.
  - b. Part - B: Descriptive paper for 15 marks.

Student shall have to earn 40%, i.e. 10 marks out of 25 marks from average of two mid-term examinations (I Mid-Term & II Mid-Term).

The remaining 15 marks of Continuous Internal Assessment (out of 40) are distributed as:

2. Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
3. PPT/Poster Presentation/ Case Study/Video presentation/Survey/Field Study/Group discussion /Role Play on a topic in the concerned subject for  $5+5 = 10$  marks before II Mid-Term Examination.

- The objective/quiz paper is set with multiple choice, fill-in the blanks, match the following type of questions and short notes for a total of 10 marks. The descriptive paper shall contain 5 full questions out of which, the student has to answer 3 questions, each carrying 5 marks. The student has to get minimum of 40% (on 25 marks allocated for Mid-Term examinations) on average of two Mid-Term examinations.

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

PPT/Poster Presentation/ Case Study/ Video presentation/ Survey/ Field Study/ Group discussion /Role Play on a topic in the concerned subject for  $5+5 = 10$  marks before II Mid-Term Examination.

The details of the end semester question paper pattern are as follows:

**7.2** The semester end examinations (SEE), for theory subjects, will be conducted for 60 marks consisting of two parts viz. i) **Part- A** for 10 marks, ii) **Part - B** for 50 marks.

- Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from each unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- The duration of Semester End Examination is 3 hours.

**7.3** For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 40 marks and 60 marks for semester end examination. Out of the 40 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks
2. 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.

4. The remaining 10 marks are for Laboratory Project, which consists of the Project design / Program execution / field study submission which shall be evaluated after completion of laboratory course and before semester end practical examination.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster/ other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours and total 60 marks are divided and allocated as shown below:

1. 10 marks for write-up
2. 15 for experiment/program
3. 15 for evaluation of results
4. 10 marks for presentation on another experiment/program in the same laboratory course
5. 10 marks for viva-voce on concerned laboratory course

**7.4** For conducting laboratory end examinations, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management. A candidate has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same during the supplementary examinations as and when conducted, subject to item 3.3.

**7.5** There shall be a summer internship during the summer vacation of I Year II Semester and the evaluation is done in II Year I Semester. Summer internship Report has to be submitted to the department after approval by the concerned supervisor/mentor and the Head of the department. Summer internship Report is evaluated for 100 marks. The report has to be evaluated by the Head, Supervisor/ mentor and a senior faculty of the department. A candidate has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same during the supplementary examinations as and when conducted, subject to item 3.2.

**7.6** Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.

**7.7** A Project Review Committee (PRC) shall be constituted with the Head of the Department as Chairperson, Project Supervisor and one senior faculty member of the Departments offering the MBA programme.

**7.8** Registration of Project Work: A candidate is permitted to register for the project work at the beginning of II Year II Semester after satisfying the attendance requirement in all the subjects, both theory and laboratories upto II Year I Semester. The duration of the project work is one semester.

**7.9** After satisfying 7.8, a student, in consultation with his Project Supervisor, has to present the title, objective, and plan of action of his project work to the Project Review Committee (PRC) for approval within **two weeks** from the commencement of II Year II Semester. The student can initiate the Project work after obtaining the approval of the PRC. The Supervisor and PRC will examine the progress of the Project Work during pre-submission project seminar. For the subject 'pre-submission project seminar', there will be only internal evaluation for 100 marks. Evaluation shall be done by the PRC for 50 marks and the Supervisor shall evaluate the work for another 50 marks. A candidate has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same during the supplementary examination as and when notification is issued, subject to item 3.3. Pre-submission project seminar has to be conducted along with 1<sup>st</sup> and 2<sup>nd</sup> mid-term examinations.

**7.10** If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the PRC. However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.

**7.11** A candidate is permitted to submit project thesis with the approval of PRC not earlier than **16 weeks** from the date of commencement of fourth semester. For the approval of PRC, the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the PRC during the Pre-submission project seminar at 2<sup>nd</sup> mid-term examinations.

**7.12** After approval from the PRC, a soft copy of the thesis should be submitted for **ANTI-PLAGIARISM** check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than **30%**. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to **TWO**. The candidate has to register for the Project work and work for one semester. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.

**7.13** Three copies of the Project Thesis certified by the supervisor shall be submitted to the College/School/Institute.

**7.14** The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.

**7.15** If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Project Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.

**7.16** If the report of the external examiner is satisfactory, the Head of the Department shall coordinate and make arrangement for the conduct of Main Project Viva - Voce examination. The Main Project Viva-Voce examination will be evaluated for 100 marks. The Main Project Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Main Project Viva-Voce examination. For Main Project Viva – Voce examination one external examiner shall be allotted for a group of ten students (in a panel minimum of three students should be there). The Main Project Viva-Voce examination shall be conducted within two weeks after completion of the fourth semester end examinations. The Students need to prepare the PPT (Slides) of the project work for the Viva –voce examination.

**7.17** If he fails to fulfill the requirements as specified in 7.16, he will reappear for the Main Project Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his project work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).

**7.18** The Main Project Viva-Voce External examination marks must be submitted to the University on the day of the examination.

## 8.0 Re-Admission/Re-Registration

## **8.1 Re-Admission for Discontinued Student**

A student, who has discontinued the MBA degree programme due to any reason whatsoever, may be considered for '**readmission**' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.

**8.2** If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2.

**8.3** A candidate shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

## **9.0 Examinations and Assessment - The Grading System**

**9.1** Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Seminar, or Project, etc., based on the % of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.

**9.2** As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

<b>% of Marks Secured in a subject/Course (ClassIntervals)</b>	<b>Letter Grade (UGC Guidelines)</b>	<b>Grade Points</b>
90% and above ( $\geq 90\%, \leq 100\%$ )	O (Outstanding)	10
Below 90% but not less than 80% ( $\geq 80\%, < 90\%$ )	A <sup>+</sup> (Excellent)	9
Below 80% but not less than 70% ( $\geq 70\%, < 80\%$ )	A (Very Good)	8
Below 70% but not less than 60% ( $\geq 60\%, < 70\%$ )	B <sup>+</sup> (Good)	7
Below 60% but not less than 50% ( $\geq 50\%, < 60\%$ )	B (above Average)	6
Below 50% ( $< 50\%$ )	F (FAIL)	0
<b>Absent</b>	<b>Ab</b>	<b>0</b>

**9.3** A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.

**9.4** If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.

**9.5** A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

**9.6** In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits} \dots \text{For a Course}$$

9.8 The student passes the Subject/ Course only when he gets  $\text{GP} \geq 6$  (B Grade or above).

9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points ( $\Sigma \text{CP}$ ) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$\text{SGPA} = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the CourseStructure of the parent Department),  $C_i$  is the no. of Credits allotted to the  $i^{\text{th}}$  Subject, and  $G_i$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $i^{\text{th}}$  Subject.

9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{j=1}^M C_j G_j \right\} / \left\{ \sum_{j=1}^M C_j \right\} \dots \text{for all S Semesters registered (ie., upto and inclusive of S Semesters, } S \geq 2\text{),}$$

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1<sup>st</sup> Semester onwards upto and inclusive of the Semester S ( obviously  $M > N$  ), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters),  $C_j$  is the no. of Credits allotted to the  $j^{\text{th}}$  Subject, and  $G_j$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $j^{\text{th}}$  Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

#### Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4*8 = 32$
Course 2	4	O	10	$4*10 = 40$
Course 3	4	B	6	$4*6 = 24$
Course 4	3	B	6	$3*6 = 18$
Course 5	3	A+	9	$3*9 = 27$
Course 6	3	B	6	$3*6 = 18$
	21			159

$$\text{SGPA} = 159/21 = 7.57$$

### Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	$24*7 = 168$
Semester II	24	6	$24*6 = 144$
Semester III	24	6.5	$24*6.5 = 156$
Semester IV	24	6	$24*6 = 144$
	96		612
CGPA = $612/96 = 6.37$			

#### 10.0 Award of Degree and Class

10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire MBA Programme, and secures the required number of **102** Credits (with  $CGPA \geq 6.0$ ), shall be declared to have 'QUALIFIED' for the award of the MBA Degree that he was admitted into.

#### 10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of MBA Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	$\geq 7.75$
First Class	$6.75 \leq CGPA < 7.75$
Second Class	$6.00 \leq CGPA < 6.75$

A student with final CGPA (at the end of the MBA Programme)  $< 6.00$  shall not be eligible for the Award of Degree.

#### 11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

#### 12.0 General

12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or one hour of practical work/field work per week.

12.2 **Credit Point:** It is the product of grade point and number of credits for a course.

12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".

12.4 The academic regulation should be read as a whole for the purpose of any interpretation.

12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.

12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates

notified by the University.

### **13.0 Transitory Regulations:**

#### **A. For students detained due to shortage of attendance:**

1. A Student who has been detained in I year of R19 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R22 Regulations and he is required to complete the study of MBA programme within the stipulated period of four academic years from the date of first admission in I Year.
2. A student who has been detained in any semester of II year of R18 regulations for want of attendance, shall be permitted to join the corresponding semester of R22 Regulations and is required to complete the study of MBA within the stipulated period of four academic years from the date of first admission in I Year. The R22 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester. See rule (B) for further Transitory Regulations.

#### **B. For readmitted students in R22 Regulations:**

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R22 Regulations. **There is NO exemption of credits in any case.**
6. If a student is readmitted to R22 Regulations and has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R22 Regulations will be substituted by another subject to be suggested by the University.

**Note:** If a student readmitted to R22 Regulations and has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R22 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

### **15.0 Student Transfers**

**15.1** There shall be no branch transfers after the completion of admission process.

**15.2** There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.

**15.3** The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.

**15.4** The transferred students from other Universities/Institutions to JNTUH affiliated colleges who are on rolls are to be provided one chance to write the CBT (for internal marks) in the **equivalent subject(s)** as per the clearance letter issued by the University.

**15.5** The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **equivalent subject(s)** to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

**MALPRACTICES RULES**  
**DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

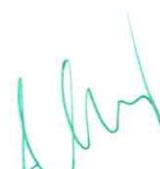
S.No	Nature of Malpractices/Improper conduct If the candidate:	Punishment
1.(a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers, Bluetooth devices, digital watches or any other form of material concerned with or related to the subject to the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination).	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. Incase of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject to the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year.  The Hall Ticket of the candidate is to be cancelled and sent to the University.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the	Expulsion from the examination hall and cancellation of performance in that subject and

	question paper during the examination or answer book or additional sheet, during or after the examination.	all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already

		appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/ year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

#### **Malpractices identified by squad or special invigilators**

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
  - (i) A show-cause notice shall be issued to the college.
  - (ii) Impose a suitable fine on the college.
  - (iii) Shifting the examination center from the college to another college for a specific period of not less than one year



Principal  
Bageshwar College of Engineering  
KANPUR NAGAR-209 527

**Academic Regulations of MCA (Regular/ Full Time) Programme Under Choice Based Credit System (CBCS) 2022-23 (R22)**

**(Effective for the students admitted into I year from the Academic Year 2022-23 and onwards)**

**1.0 Post-Graduate Degree Programme in Computer Applications (PGP in Computer Applications)**

Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Computer Applications (**MCA**) Degree programme, under CBCS at its affiliated colleges.

**2.0 Eligibility for Admissions**

**2.1** Admission to the MCA programme shall be made subject to eligibility, qualification prescribed by the University from time to time.

**2.2** Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying Examination/the merit rank obtained by the qualified student in Integrated Common Entrance Test (ICET) conducted by Telangana State Government for MCA programme /an entrance test conducted by JNTUH/on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

**2.3** The medium of instructions for MCA Programme will be **ENGLISH** only.

**3.0 MCA Programme (PGP in Computer Applications) Structure**

**3.1** The MCA Programme of JNTUH is of Semester pattern, with **Four Semesters** consisting of **Two** academic years, each academic year having **Two Semesters** (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.

**3.2** The student shall not take more than **Four** academic years to fulfill all the academic requirements for the award of MCA degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in MCA programme.

**3.3** **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

**3.3.1 Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Seminar', or 'Project' as the case may be.

**3.3.2 Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

- One credit for one hour per week for theory courses/lecture (L) or tutorial (T)
- One credit for two hours per week for laboratory courses/practical (P)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations, and identified mandatory courses, if any, will not carry credits.

### 3.3.3 Subject Course Classification

All subjects/courses offered for the MCA Degree Programme is broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/Category	Course Description
1	Core Courses (CoC)	CC- Core Courses	Includes subjects related to the parent discipline/department
		Project Work	MCA Project or PG Project or Major Project
		Seminar	Seminar based on core contents related to the discipline
2	Elective Courses (EIE)	PE - Professional Electives	Includes elective subjects related to the parent discipline/department
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/department

## 4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the MCA, its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

## 5.0 Attendance Requirements

The programmes are offered on the basis of a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

**5.1** Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.

**5.2** **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject of a semester shall be granted by the College Academic Committee on genuine reasons.

**5.3** Shortage of Attendance below 65% in any subject shall in **no case be condoned**.

**5.4** A Student, whose shortage of attendance **is not condoned** in any subject(s) in any semester, is considered detained in that subject(s) and is not eligible to write Semester End Examination(s) of such subject(s) in that semester, and he has to seek re-registration for those subject(s) in subsequent semesters, and attend the same as and when offered.

**5.5** A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.

**5.6** A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.

**5.7** A Student shall maintain minimum required attendance in at least **Three** theory subjects in each semester for promotion to next Semester.

## **6.0 Academic Requirements**

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the student in each semester shall be evaluated subject- wise, with a maximum of 100 marks per subject / course (theory / laboratory), on the basis of Continuous Internal Evaluation and Semester End Examination.

**6.1** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than:

- 40% of Marks (24 out of 60 marks) in the Semester End Examination;
- 40% of Marks (Average of 10 out of 25 marks) from two mid-term examinations;
- 40% of Marks in the internal examinations (16 out of 40 marks allotted for CIE); and
- A minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades this implies securing '**B**' Grade or above in a subject.

**6.2** A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course including seminar, if he secures not less than 50% of the total marks. The student is deemed to have failed, if he does not submit a report on seminar or does not make a presentation of the same before the evaluation committee as per schedule, in such a case, he has to reappear for the same during the supplementary examination as and when the notification is issued, subject to item 3.2.

**6.3** A student shall register for all subjects for total of **80** credits as specified and listed in the course structure, put in the required attendance and fulfill the academic requirements for securing **80** credits obtaining a minimum of '**B**' Grade or above in each subject, and all **80** credits securing Semester Grade Point Average (**SGPA**)  $\geq 6.0$  (in each semester) and final Cumulative Grade Point Average (**CGPA**) (i.e., CGPA at the end of PGP)  $\geq 6.0$ , to complete the PGP successfully. **There is NO reduction/ exemption of credits from the specified 80 credits in any case.**

**Note:**

1. The SGPA will be computed and printed on the marks memo only if the student passes in all the subjects offered and gets minimum 'B' grade in all the subjects.
2. CGPA is calculated only when the student passes in all the subjects offered in all the semesters.

**6.4** Marks and Letter Grades obtained in all those subjects covering the above specified **80** credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.

**6.5** If a student registers for extra subject(s) other than those listed subjects totaling to **80** credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required **80** credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.

**6.6** When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.

**6.7** A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.

**6.8** A Student who fails to earn **80** credits as per the specified course structure, and as indicated above, within **Four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in MCA programme and his admission shall stand cancelled.

**7.0 Evaluation - Distribution and Weightage of Marks**

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks. The MCA Project Work (Project Work Review – III & Project Viva-Voce) will also be evaluated for 100 marks.

**7.1** For the theory subjects 60 marks shall be awarded for the performance in the Semester End Examination and 40 marks shall be awarded for Continuous Internal Evaluation (CIE). In CIE, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) Part – A for 10 marks, ii) Part – B for 15 marks with a total duration of 2 hours as follows:

1. Mid Term Examination for 25 marks:
  - a. Part - A: Objective/quiz paper for 10 marks.
  - b. Part - B: Descriptive paper for 15 marks.

The objective/quiz paper is set with multiple choice, fill-in the blanks and match the following type of questions for a total of 10 marks. The descriptive paper shall contain 5 full questions out of which, the student has to answer 3 questions, each carrying 5 marks. **Average marks** of two Mid-Term examinations is considered as **final mid-term marks**. While the first mid-term examination shall be

conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

The remaining 15 marks of Continuous Internal Assessment (out of 40) are distributed as:

2. Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
3. Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 10 marks.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the subject concerned for 10 marks before II Mid-Term Examination.

The details of the Question Paper pattern for Semester End Examination (Theory) are given below:

- The Semester End Examination will be conducted for 60 marks. It consists of two parts.  
i) Part-A for 10 marks, ii) Part-B for 50 marks.
- Part-A is compulsory and consists of 10 questions, two from each unit and carrying 1 mark each.
- Part-B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and the student should answer either of the two questions and each question may contain sub-questions.

**7.2** For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 40 marks and 60 marks for semester end examination. Out of the 40 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks
2. 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.
4. The remaining 10 marks are for Laboratory Project, which consists of the Design (or) Software / Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be evaluated after completion of laboratory course and before semester end practical examination.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster / other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 60 marks are divided and allocated as shown below:

1. 10 marks for write-up
2. 15 for experiment/program
3. 15 for evaluation of results
4. 10 marks for presentation on another experiment/program in the same laboratory course and
5. 10 marks for viva-voce on concerned laboratory course

**7.3** For conducting laboratory end examinations, one internal examiner and one external examiner are to

be appointed by the Principal of the College and this is to be informed to the Director of Evaluation of JNTUH before two weeks of commencement of the lab end examinations. The external examiner should be selected from outside the College concerned. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.

- 7.4 There shall be a Seminar during second year II semester. For Seminar, a student shall collect the literature on the advanced topic in relevant fields and critically review the literature and submit it to the department in the form of report and shall make an oral presentation before the Department Academic Committee consisting of Head of the Department, Seminar coordinator and two other senior faculty members of the department. For Seminar, there will be only internal evaluation for 100 marks. A student has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the Seminar during the supplementary examination as and when the notification is issued, subject to item 3.2.
- 7.5 Every student shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.
- 7.6 A Project Review Committee (PRC) shall be constituted with the Head of the Department as Chairperson, Project Supervisor and one senior faculty member of the Department offering the MCA programme.
- 7.7 **Registration of Project Work:** A student is permitted to register for the project work **at the beginning of II Year I Semester after satisfying the attendance requirement in all the subjects, both theory and laboratories up to I Year II Semester.** The duration of the project work is two semesters.
- 7.8 After registration for Project Work, a student, in consultation with his Project Supervisor, has to present the title, problem definition, objectives, scope of work, Literature Survey in the same domain of his project work during **Project Work Review - I** to the Project Review Committee (PRC) for approval within **four weeks** from the commencement of II Year I Semester. The student can initiate the Project Work only after obtaining the approval of the PRC. If a student fails to register for project work or did not get the PRC approval to initiate the Project Work, he has to register for Project Work or get the PRC approval during Project Work Review – III in II Year II Semester.
- 7.9 If a student wishes to change his supervisor or topic of the project, he can do so with the approval of the PRC within **six weeks** from the commencement of **II Year I Semester.** However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal.
- 7.10 **The project work review – II** shall be scheduled within one month from the commencement of II Year II Semester. During this review the PRC will examine the progress of the proposed project work in project work review - I.
- 7.11 **The Project Work Review – III** carries 100 Internal Marks. The Project Supervisor will evaluate for **40 Marks** and PRC will evaluate for remaining **60 marks.** The Project Work Review – III evaluation will be done after four months from the commencement of II Year II Semester. The PRC will examine the overall progress of the Project Work. The student shall make an oral presentation before the PRC. A student has to secure minimum of 50% marks to be declared successful in Project Work Review – III and then only permitted to submit project thesis. A draft copy of thesis should be submitted to the Head of the Department.
- 7.12 If a student fails to obtain the minimum required 50% marks in the project work review – III, he has to reappear for the same during Project Work Review – I in next academic year. If a student also fails in this attempt then he has to reappear for the same during Project Work Review – III in the next semester.

**7.13** After approval from the PRC, a soft copy of the thesis shall be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The thesis can be accepted for submission, if the similarity index is less than **30%**. If the similarity index is more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to **TWO**. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.

**7.14** It is mandatory to submit a research paper related to the Project Work in one of the UGC approved/Peer reviewed journals. Three copies of the project thesis certified by the supervisor shall be submitted to the College/School/ Institute, after submission of a research paper related to the project work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.

**7.15** The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.

**7.16** The Project Viva-Voce in II Year II Semester carries 100 marks and evaluation shall be done by external examiner. The student has to secure a minimum of 50% marks in Project Viva-Voce examination. The project viva-voce examination may be conducted after successful completion of project work review – III.

**7.17** If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Project Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.

**7.18** If the report of the external examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Project Viva-Voce examination. The Project Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis.

**7.19** If a student fails to fulfill the requirements as specified in 7.16, he has to reappear for the Project Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his project work by the PRC within a specified time period (within **four** years from the date of commencement of his first year first semester).

**7.20** The Project Viva-Voce External examination marks must be submitted to the University on the day of the examination.

## **8.0 Re-Admission/Re-Registration**

### **8.1 Re-Admission for Discontinued Student**

A student, who has discontinued the MCA degree programme due to any reason whatsoever, may be considered for '**readmission**' into the same degree programme with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.

**8.2** If a student is detained in a subject(s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2.

**8.3** A student shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a student are less than 50% and failed in those subjects but fulfilled the attendance requirement. A student must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

## **9.0 Examinations and Assessment - The Grading System**

**9.1** Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, seminar or Project, etc., based on the % of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.

**9.2** As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

<b>% of Marks Secured in a subject/Course (Class Intervals)</b>	<b>Letter Grade (UGC Guidelines)</b>	<b>Grade Points</b>
90% and above ( $\geq 90\%, \leq 100\%$ )	O (Outstanding)	10
Below 90% but not less than 80% ( $\geq 80\%, < 90\%$ )	A <sup>+</sup> (Excellent)	9
Below 80% but not less than 70% ( $\geq 70\%, < 80\%$ )	A (Very Good)	8
Below 70% but not less than 60% ( $\geq 60\%, < 70\%$ )	B <sup>+</sup> (Good)	7
Below 60% but not less than 50% ( $\geq 50\%, < 60\%$ )	B (above Average)	6
Below 50% ( $< 50\%$ )	F (FAIL)	0
Absent	Ab	0

**9.3** A student obtaining 'F' Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Student' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.

**9.4** If a student has not appeared for the examinations, 'Ab' Grade will be allotted to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Student' for the Semester End Examination (SEE), as and when conducted.

**9.5** A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

**9.6** In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

**9.7** A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

**Credit Points (CP) = Grade Point (GP) x Credits .... For a Course**

9.8 The student passes the Subject/ Course only when he gets  $GP \geq 6$  (B Grade or above).

9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points ( $\Sigma CP$ ) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \frac{\sum_{i=1}^N C_i G_i}{\sum_{i=1}^N C_i} \text{ for each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department),  $C_i$  is the no. of Credits allotted to the  $i^{\text{th}}$  Subject, and  $G_i$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $i^{\text{th}}$  Subject.

9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$CGPA = \frac{\sum_{j=1}^M C_j G_j}{\sum_{j=1}^M C_j} \text{ for all } S \text{ Semesters registered,}$$

(ie., upto and inclusive of  $S$  Semesters,  $S \geq 2$ ),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1<sup>st</sup> Semester onwards upto and inclusive of the Semester S ( obviously  $M > N$  ), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters),  $C_j$  is the no. of Credits allotted to the  $j^{\text{th}}$  Subject, and  $G_j$  represents the Grade Points (GP) corresponding to the Letter Grade awarded for that  $j^{\text{th}}$  Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

**Illustration of calculation of SGPA**

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4*8 = 32$
Course 2	4	O	10	$4*10 = 40$
Course 3	4	B	6	$4*6 = 24$
Course 4	3	B	6	$3*6 = 18$
Course 5	3	A+	9	$3*9 = 27$
Course 6	3	B	6	$3*6 = 18$
	21			159

$$SGPA = 159/21 = 7.57$$

**Illustration of calculation of CGPA**

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	$24*7 = 168$
Semester II	24	6	$24*6 = 144$

Semester III	24	6.5	24*6.5 = 156
Semester IV	24	6	24*6 = 144
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

#### 10.0 Award of Degree and Class

10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **80** Credits (with  $\text{CGPA} \geq 6.0$ ), shall be declared to have 'QUALIFIED' for the award of the MCA Degree that he was admitted into.

#### 10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of MCA Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	$\geq 7.75$
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the PGP) **< 6.00** shall not be eligible for the Award of Degree.

#### 11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

#### 12.0 General

12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

12.2 **Credit Point:** It is the product of grade point and number of credits for a course.

12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".

12.4 The academic regulation should be read as a whole for the purpose of any interpretation.

12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.

12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.



**MALPRACTICES RULES**  
**DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

S.No	Nature of Malpractices/Improper conduct	Punishment
	If the student:	
1.(a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject to the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination).	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. Incase of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject to the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year.  The Hall Ticket of the student is to be cancelled and sent to the University.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student, who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.

4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	Incase of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with

		forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the college's expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

#### **Malpractices identified by squad or special invigilators**

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)

- I. A show cause notice shall be issued to the college.
- II. Impose a suitable fine on the college.
- III. Shifting the examination centre from the college to another college for a specific period of not less than one year.