

IMPLEMENTATION OF EXAMINATION REFORMS

Examination Reforms: Examinations (CIE & SEE)

Gouthami Institute of Technology and Management for women, Proddatur (GTMW), which was established in 2009, diligently strives to offer quality in technical education through well-focussed teaching learning process in line with the Vision and Mission statements of the institution. The college has been implementing the Outcome Based Education model for meeting the requirements of the Industry/Higher Education etc. Following are some of the measures with regard to Assessment & Evaluation implemented by the college after the conferment of autonomous status by the UGC:

1. Continuous Internal Evaluation (CIE):

- Enhanced the Continuous Internal Evaluation (CIE) component as per the following details to strengthen the continuous learning and evaluation of the students throughout the semester.
- CIE component for Diploma 20 marks for Internal, UG Programmes in R-23 regulation i.e, 30 marks.
- Introduction of Assignments and unit tests in addition to two Internal Tests for all Diploma and UG to further strengthen the continuous learning and assessment of the students throughout the semester.
- Introduction of Outcome Based Evaluation model to enhance the quality of Assessment & Evaluation Process by following Blooms Taxonomy and Rubrics in evaluation. as well as addressing the gaps in the curriculum.
- Mapping of questions with the following in the internal examination question paper to ensure balanced cognitive levels of learning as well as to map the continuous assessment with the Outcomes.
- Enhanced the weightage for questions based on “Critical Thinking” ,“Analysis” and Application aspects in the internal examination paper to enable the students to prepare and learn by understanding the concepts rather than by rote learning.
- Revision of internal examination question paper viz., Assignments and unit tests is done to balance the objective and subjective type of questions asked.

All questions are made in the question paper to ensure that students prepare for the entire course content prescribed for the examinations.

- Introduction of “Review/Moderation” system: The question papers are reviewed by the HoDs or senior faculty to check the quality of the questions as per prescribed guidelines i.e., Blooms Taxonomy etc.
- Auditing of the internal examination question papers is done by the nominated faculty and the audit findings are shared, if any, with the respective subject teachers to ensure corrective action in the process for the future cycles of examinations.
- Scoring Minimum of 40% aggregate marks has been made compulsory in CIE for the student to be eligible for writing Semester-End Examinations both for Diploma and B.Tech.
- Introduction of deputation of “Squads” to examination halls is done to ensure strict vigilance during examinations.

2. Semester-End Examinations (SEE):

- Question papers are set by subject experts from State Universities i.e JNTUA.
- Auditing of SEE question papers by external subject experts is done to review the standards of the question paper and also to short-list the experts for setting question papers in the future, based on the quality questions set by them.
- System of issue of photocopy of the answer script to the students’ on-demand has been introduced enabling the student to verify the scheme of award of marks.
- Provision has been made for the students to improve their CGPA (up to IV yr.) by allowing them to appear for “Supplementary Examinations” within completion of their graduation.
- A system of “Advanced Supplementary Examinations” has been introduced for even semesters of Diploma and B.Tech Programme to provide opportunity to students to appear for supplementary examinations in both odd and even semesters in the same academic year and to enable them to reduce their backlogs.
- Introduced “Last Chance Examinations” in all semesters for UG like B.Tech students enabling them to clear backlogs and ensure better transition across semesters.
- Introduced the following “Promotion Rules” for making the students responsible for their transition across semesters:



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Approved by AICTE, New Delhi,
Affiliated to JNTUA, Ananthapuramu & SBTET, Vijayawada

- For B.Tech. Programme: A student has
 - to secure minimum 75% aggregate attendance at the end of each semester to get promoted to next semester and also become eligible to write Semester-End Examinations of that semester.
 - to secure a minimum of 40% aggregate marks in CIE to be eligible to write SEE of that semester.
 - to secure a minimum of 50% of total credits prescribed for I & II-Semesters to get promoted to III-Semester.
 - to secure a minimum of 50% of total credits prescribed for III & IV-Semesters and also to clear all courses of I-Year to get promoted to V-Semester.
 - to secure a minimum of 50% of total prescribed credits of V & VI-Semesters and also clear all the courses of II-Year to get promoted to VII-Semester.


Exam S/c I/c

EXAM CELL i/c

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Internal Assessment and Evaluation as per the guidelines of JNTUA

R-20 Regulations

The mechanism followed for Internal assessment is described below.

The assessment process is outlined for theory and laboratory courses, which is common for all the years. Project and Long term Internship currently applies to IV year students.

EVALUATION PROCESS

The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory and 100 marks for practical subject. Summer Internships shall be evaluated for 50 marks, Full Internship & Project work in final semester shall be evaluated for 200 marks, mandatory courses with no credits shall be evaluated for 30 mid semester marks.

- i) **For theory subject**, the distribution shall be **30 marks for Internal Evaluation** and 70 marks for the End-Examination.
- ii) For practical subject, the distribution shall be **30 marks for Internal Evaluation** and 70 marks for the End- Examination.
- iii) If any course contains two different branch subjects, the syllabus shall be written in two parts with 3 units each (Part-A and Part-B)
- iv) If any subject is having both theory and practical components, they will be evaluated separately as theory subject and practical subject. However, they will be given same subject code with an extension of 'T' for theory subject and 'P' for practical subject.

CONTINUOUS INTERNAL EVALUATION

- i) **For theory subjects**, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks of which 10 marks for objective paper with 20 objective type questions (20 minutes duration), 15 marks for subjective paper (90 minutes duration) and 5 marks for assignment.
- ii) Objective paper shall be set for maximum of 20 bits for 10 marks. Subjective paper shall contain 3 either or type questions (totally six questions from 1 to 6) of which student has to answer one from each either-or type question. Each question carries 5 marks.

Note:

- ☐ The objective paper with 20 objective type questions shall be prepared in line with the quality of competitive examinations questions.
- ☐ The subjective paper shall contain 3 either or type questions of equal weightage of 5 marks. Any fraction shall be rounded off to the next higher mark.

❑ The objective paper shall be conducted either online or offline by the respective institution on the day of subjective paper test.

❑ If conducted offline, the midterm examination shall be conducted first by distribution of the Objective paper, simultaneously marking the attendance, after 20 minutes the answered objective paper shall be collected back. The student is not allowed to leave the examination hall.

Then the descriptive question paper and the answer booklet shall be distributed. After 90 minutes the answered booklets are collected back.

❑ The assignment shall contain numerical problems/software development. If subject is purely descriptive and does not have any numerical problems, then essay type question/term paper shall be given. It should be continuous assessment throughout the semester. There shall be five assignments one for each unit and the average marks shall be considered.

iii) **If the student is absent for the mid semester examination, no re-exam shall be conducted and mid semester marks for that examination shall be considered as zero.**

iv) **First midterm examination shall be conducted for I, II units of syllabus with one either or type question from each unit and third either or type question from both the units. The second midterm examination shall be conducted for III, IV and V units with one either or type question from each unit.**

v) **Final mid semester marks** shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the better mid exam and 20% to the other.

For Example:

Marks obtained in first mid: 25

Marks obtained in second mid: 20

Final mid semester Marks: $(25 \times 0.8) + (20 \times 0.2) = 24$

If the student is absent for any one midterm examination, the final mid semester marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in first mid: Absent

Marks obtained in second mid: 25

Final mid semester Marks: $(25 \times 0.8) + (0 \times 0.2) = 20$

For practical courses, there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the laboratory shall be evaluated for 15 marks by the concerned laboratory teacher based on the regularity/record/viva and 15 marks for the internal test. The end examination shall be conducted by the concerned laboratory teacher and a senior expert in the subject from the same department.

In a practical subject consisting of two parts (Eg: Basic Electrical & Electronics Engineering Lab), the end examination shall be conducted for 35 marks in each part. Mid semester examination shall be evaluated as above for 30 marks in each part and final mid semester marks shall be arrived by considering the average of marks obtained in two parts.

c) **For the subject having design and/or drawing**, such as Engineering Drawing, the distribution of marks shall be 30 for mid semester evaluation and 70 for end examination.

Day-to-day work shall be evaluated for 15 marks by the concerned subject teacher based on the reports/submissions prepared in the class. And there shall be two midterm examinations in a semester for duration of 2 hours each for 15 marks with weightage of 80% to better mid marks

and 20% for the other. The subjective paper shall contain 3 either or type questions of equal weightage of 5 marks. There shall be no objective paper in mid semester examination. The sum of day-to-day evaluation and the mid semester marks will be the final sessional marks for the subject.

Skill oriented Courses

- i) There shall be five skill-oriented courses offered during III to VII semesters.
- ii) Out of the five skill courses two shall be skill-oriented courses from the same domain. Of the remaining three skill courses, one shall be a soft skill course and the remaining two shall be skill-advanced courses from the same domain/Interdisciplinary/Job oriented.
- f) The course shall carry 100 marks and **shall be evaluated through continuous assessments during the semester for 30 sessional marks** and end examination shall be for 70 marks. **Day-to-day work in the class / laboratory shall be evaluated for 30 marks by the concerned teacher based on the regularity/assignments/viva/mid semester test. The end examination similar to practical examination pattern shall be conducted by the concerned teacher and an expert in the subject nominated by the principal.**
- iii) The Head of the Department shall identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks/grades shall be assigned to the students by the above committee based on their performance.
- iv) The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by industries/Professional bodies or any other accredited bodies. If a student chooses to take a Certificate Course offered by external agencies, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency. A committee shall be formed at the level of the college to evaluate the grades/marks given for a course by external agencies and convert to the equivalent marks/grades.
- v) The recommended courses offered by external agencies, conversions and appropriate grades/marks are to be approved by the University at the beginning of the semester. The principal of the respective college shall forward such proposals to the University for approval.
- vi) If a student prefers to take a certificate course offered by external agency, the department shall mark attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the University.

Full Semester Internship and Project work:

In the final semester, the student should mandatorily register and undergo internship (onsite/virtual) and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship.

The project report shall be evaluated with an external examiner. The total marks for project work 200 marks and **distribution shall be 60 marks for internal** and 140 marks for external evaluation. The supervisor assesses the student for 30 marks (Report: 15 marks, Seminar: 15 marks). At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be evaluated by the departmental Project

Review Committee consisting of supervisor, a senior faculty and HOD for 30 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the University and is evaluated for 140 marks

The College shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

Attendance Requirements:

- i) A student shall be eligible to appear for the University external examinations if he/she acquires a minimum of 40% attendance in each subject and 75% of attendance in aggregate of all the subjects. b) Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.
- ii) Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.
- iii) A stipulated fee shall be payable towards condonation of shortage of attendance to the University.
- iv) Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class and their registration shall stand cancelled.
- v) A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester from the date of commencement of class work.
- vi) If any candidate fulfils the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.
- vii) If the learning is carried out in blended mode (both offline & online), then the total attendance of the student shall be calculated considering the offline and online attendance of the student.
- viii) For induction programme attendance shall be maintained as per AICTE norms.

Promotion Rules:

The following academic requirements must be satisfied in addition to the attendance requirements mentioned in section 14.

- i) A student shall be promoted from first year to second year if he/she fulfils the minimum attendance requirement as per university norms.
- ii) A student will be promoted from II to III year if he/she fulfils the academic requirement of securing 40% of the credits (any decimal fraction should be rounded off to lower digit) up to in the subjects that have been studied up to III semester from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.

One regular and two supplementary examinations of I Semester

One regular and one supplementary examination of II Semester

One regular examination of III semester

iii) A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of securing 40% of the credits (any decimal fraction should be rounded off to lower digit) in the subjects that have been studied up to V semester from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.

One regular and four supplementary examinations of I Semester.

One regular and three supplementary examinations of II Semester.

One regular and two supplementary examinations of III Semester.

One regular and one supplementary examination of IV Semester.

One regular examination of V Semester.

And in case a student is detained for want of credits for a particular academic year by ii) & iii) above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester respectively as the case may be.

iv) When a student is detained due to lack of credits/shortage of attendance he/she may be re-admitted when the semester is offered after fulfilment of academic regulations.

In such case, he/she shall be in the academic regulations into which he/she is readmitted.


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