

SWARNANDHRA
COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous)

ACADEMIC REGULATIONS



For
Master of Computer Applications
Two year PG Course

(Applicable for batches admitted from 2020-21)



SWARNANDHRA
COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SEETHARAMAPURAM, NARSAPUR-534 280, W.G.DT., A.P.

ACADEMIC REGULATIONS

1. INTRODUCTION

Swarnandhra College of Engineering & Technology (Subsequently referred to as SCET) will be followed the norms of Jawaharlal Nehru Technological University Kakinada and Govt. of Andhra Pradesh.

Academic Program of the institute are governed by rules and regulations approved by the Academic Council, which is the highest Academic body of the Institute. These academic rules and regulations are applicable for the students of MCA (Regular) course admitted from the academic year 2020-21 onwards.

The MCA Degree shall be conferred on candidates who are admitted to the program and fulfill all the requirements for the award of the Degree. Swarnandhra College of Engineering & Technology, an autonomous institution, follows Semester pattern for all the two years of its Postgraduate MCA programme with internal and external evaluation.

Semester Pattern: Each academic year shall be divided into two semesters: each semester consists of 22 weeks duration with a minimum of 110 working days which includes instruction, mid examinations and final examinations.

2. ADMISSIONS:

2.1 **Admission into first year MCA:** Admissions into first year of MCA Program of SCET will be as per the norms stipulated by Jawaharlal Nehru Technological University Kakinada & Govt. of Andhra Pradesh. Admissions into the program in the Institution are classified into CATEGORY – A, through convener, ICET and CATEGORY- B filled by the college management.

2.2 Admissions with advance standing:

(Transfer from other Colleges/ Re-admission due to dis-continuation)

These may arise in the following cases:

- a) When a student seeks transfer from other colleges to SCET and desirous to pursue the study at SCET in an eligible branch of study.
- b) When students of SCET get transferred from one regulation to another regulation.

In all such cases, approval is mandatory from the statutory bodies

3. AWARD OF MCA DEGREE

- 3.1 A student shall be declared eligible for the award of MCA degree, if he pursues a course of study and completes it successfully for not less than two academic years and not more than four academic years.
- 3.2 A Student, who fails to fulfill all the academic requirements for the award of the degree within four academic years from the year of their admission, shall forfeit his seat in MCA course.
- 3.3 For MCA course a student shall register for 80 credits and secure the same.

4. ATTENDANCE

- 4.1 A candidate shall be deemed to have eligibility to write End Semester examinations if he has put in a minimum of 75% of attendance in aggregate of all the subjects.
- 4.2 Condonation of shortage of attendance up to 10% i.e. 65% and above, and below 75% may be given by the College academic committee.
- 4.3 Condonation of shortage of attendance shall be granted only on genuine and valid reasons representations by the candidate with supporting evidence
- 4.4 Shortage of attendance below 65% shall in NO case be condoned
- 4.5 A candidate shall not be promoted to the next semester unless he fulfills the attendance requirements of the previous semester.
- 4.6 A stipulated fee shall be payable towards Condonation of shortage of attendance

5. DISTRIBUTION AND WEIGHTAGE OF MARKS:

5.1 The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks for theory and Laboratory, on the basis of Internal Evaluation and End Semester Examination.

(a) External Evaluation

For the theory subjects 70 marks shall be awarded based on the performance in the End Examination Marks. External examination shall be conducted for duration of 180 minutes with 5 questions from all units with internal choice.

(b) Internal Evaluation

30 marks shall be awarded based on the Internal Evaluation. Internal Evaluation shall be made based on the weighted Average of the marks secured in the two Mid Term –Examinations conducted, one in the middle of the Semester and the other immediately after the completion of instruction. The weights are 80% for the mid in which the students secured highest marks and 20% for mid in which the student secured lowest marks. Each mid examination shall be conducted for duration of 90 minutes with 3 questions to be answered out of 3 questions from two and half units (without choice) and each question for 10 marks

5.2 For practical subjects, 30 marks for Internal Evaluation and 70 for external examination. Out of 30 Internal marks 15 marks shall be awarded for day-to-day work including Record work and the remaining 15 marks to be awarded by conducting internal laboratory test. The External Laboratory examination for MCA course must be conducted with two examiners. One of them is the Laboratory Class Teacher, and the second examiner will be external examiner. External examiner will be appointed by the COE.

5.3 A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the End Examination and a minimum aggregate of 50% of the total marks in

the End Semester Examination and Internal Evaluation taken together.

5.4 A Candidate shall be given one chance to re-register for each course provided the internal marks secured by a candidate are less than 50 per cent and he has failed in the end examination after completion of the three years. In such case, the candidate must reregister for the subject(s) and secure required minimum attendance. Attendance in the re-registered subject(s) should be calculated separately to become eligible to write the end examination in the re-registered subject(s). The attendance of re-registered subject(s) shall be calculated separately to decide his eligibility for taking the end examination in those subject(s). In the event of taking another chance, the internal marks and end examination marks obtained in the previous attempt are nullified. At a given time a candidate is permitted to re-register for a maximum of two subject(s). For re-registration the candidates have to apply to the Institute by paying the requisite fees and get approval from the concern authorities before the start of the semester in which re-registration is required. In case the candidate secures less than the required attendance in any re-registered course(s), he/she shall not be permitted to write the End Examination in that course.

5.5 A candidate shall be allowed to submit the project report only after fulfilling the attendance requirements of all the semesters. The viva-voce examination shall be conducted at the end of the course work (4th semester).

5.6 Mini Project/Internship guidelines: There shall be a Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after I year II Semester examinations and pursue it during summer vacation. Mini Project/Summer Internship shall be submitted in a technical report form and presented before the committee in II year I semester. It shall be evaluated for 50 internal marks. The Committee consists of Head of the

Department, supervisor and senior faculty member of the department. A Minimum of 50% of maximum marks shall be obtained to earn the corresponding credits.

5.7 Employability Skills: This course is internal evaluation and will be evaluated for 50 marks. A minimum of 50% of maximum marks shall be obtained to earn the corresponding credits.

5.8 Bridge Course: Bridge course is mandatory for all the students and must complete it.

5.9 Skill Development Course:

- For these courses, one theory and two practical hours or two theory hours may be allotted as approved by the concerned BOS.
- 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/APSSDC or any other accredited bodies as approved by the concerned BoS.
- Every year the concerned BoS review the skill oriented courses based on industrial demand which are offered by the eligible external agencies or college.
- If a student chooses a Certificate Course offered by industries/Professional bodies/APSSDC or any other accredited bodies, in lieu of the skill advanced course offered by the Department, the credits shall be awarded on successful completion of the Course.
- College academic committee evaluates the grades/marks given for a course by external agencies and convert to the equivalent marks/grades.

5.10 MOOCs (NPTEL/SWAYAM): For MOOCs Course, the student shall register for the course (Minimum of 12 weeks) offered by SWAYAM/NPTEL/ through online with the approval of committee comprises of Head of the Department and two senior faculty. The Head of

the Department shall appoint one mentor for each of the MOOC courses offered. The student needs to earn a certificate by passing the exam. The student will be awarded the credits given in curriculum only by submission of the certificate.

6 EVALUATION OF PROJECT WORK

- 6.1** Every candidate shall be required to submit thesis or dissertation after taking up a topic approved by the Project Review Committee.
- 6.2** A Project Review Committee (PRC) shall be constituted with Head of the Department and two other senior faculty members of the concerned department.
- 6.3** Registration of Project Work: A candidate is permitted to register for the project work after satisfying the attendance requirement of all the courses (theory and practical subjects) up to III semester.
- 6.4** After satisfying 6.2, a candidate has to submit, in consultation with his project supervisor, the title, objective and plan of action of his project work to the Project Review Committee for its approval. After obtaining the approval of the Committee the student can initiate the Project work after the third semester end examinations.
- 6.5** Every candidate shall work on projects approved by the PRC of the College
- 6.6** The duration of the project is for one semester.
- 6.7** If a candidate wishes to change his supervisor or topic of the project he can do so with approval of the PRC. However, the Project Review Committee (PRC) shall examine whether the change of topic/supervisor leads to a major change of his initial plans of project proposal. If so, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 6.8** A candidate shall submit status report in two stages at least with a gap of one month between them.
- 6.9** The work on the project shall be initiated in the beginning of the Sixth semester and the duration of the project is for one semester. A candidate

shall be allowed to submit the project report only with the approval of PRC and not earlier than 20 weeks from the date of registration of the project work. For the approval of PRC the candidate shall submit the draft copy of thesis to the Principal (through Head of the Department) and shall make an oral presentation before the PRC.

6.10 Three copies of the Project Thesis certified by the supervisor & HOD shall be submitted to the College / Department.

6.11 The project work carried out by the candidate during 4th semester is evaluated for internal assessment and external examination.

a) **Internal Assessment:** Internal Assessment will be carried out by the Project Review Committee consisting of 1) Head of the Department 2) Supervisor and 3) Senior faculty member. Internal Assessment shall be on the basis of two seminars given by the each student on the topic of his project.

b) **External Examination:** External Examination (Viva – Voce) will be conducted by Project External Examination committee consisting of 1) Head of the Department 2) Supervisor and 3) External member. External examiner will be appointed by the COE from the panel of examiners submitted by the HOD.

6.12 Out of a total of 200 marks for the project work, 50 marks shall be for internal assessment and 150 marks External examination (Viva-Voce). A minimum of 50% of maximum marks shall be obtained to earn the corresponding credits.

6.13 If he/she fails to secure those marks he/she will retake the viva-voce examination after three months. If he/she fails to secure those marks at this second viva-voce examination, he will not be eligible for the award of the degree unless the candidate is asked to revise and resubmit. If he/she fails to secure those marks again, the project shall be summarily rejected. Head of the Department shall coordinate and make arrangements for the conduct of Viva- Voce examination.

SEMESTER WISE CREDITS DISTRIBUTION

Semester	Theory	Lab	Total Credits
I Semester	5	3	20
II Semester	5	3+Employability Skills +Bridge Course	20
III Semester	5	3+Internship/Mini Project/Skill Development Course	22
IV Semester	2	Project	18
Total			80

7 GRADING SYSTEM

7.1 Award of Grade:

(i) Grade Point Average (GPA):

a) The Grade Point Average (GPA) will be calculated according to the formula.

$$\text{GPA} = \frac{\sum G_i C_i}{\sum C_i}$$

Where C_i = number of credits for the subject i

G_i = grade points obtained by the student in the subject.

b) To arrive at Cumulative Grade Point Average (CGPA), the formula is used considering the student's performance in all the courses taken in all the semesters completed up to the particular point of time.

$$\text{CGPA} = \frac{\sum G_i C_i}{\sum C_i}$$

Where C_i = number of credits for the subject i

G_i = grade points obtained by the student in the subject.

(ii) After a student satisfies the requirements prescribed for the award of UG/PG Program he/she shall be placed in one of the following four grades. The award of the degree is based on CGPA on a grade point scale of 10.

CGPA	Award of Division
≥ 7.75	First Class with Distinction
≥ 6.75	First Division
≥ 5.75	Second Division
< 5.75	Unsatisfactory

7.1 Award of Grade in Each Semester:

- i) Based on the student performance during a given semester, a final letter grade will be awarded at the end of the semester for each subject. The letter grades and the corresponding grade points are as given in the Table.

Percentage of Marks Scored	Letter Grade	Level	Grade points
≥90	O	Outstanding	10
80 – 89	S	Excellent	9
70-79	A	Very Good	8
60-69	B	Good	7
50-59	C	Fair	6
<50	F	Fail	0
	Ab	Absent	0

- ii) A student earns a minimum of 6 grade points (C grade) in a subject is declared to have successfully completed the subject, and is deemed to have earned the credits assigned to that subject. However it should be noted that a pass in any subject/term paper/project/mini project/labs shall be governed by the rules mentioned in against them
- iii) Grade Sheet: A grade sheet (memorandum) will be issued to each student indicating his/her performance in all courses taken in that semester and

also indicating the grades.

- iv) Transcripts: After successful completion of the total programme of study, a Transcript containing performance of all academic years will be issued as a final record. Duplicate transcripts will also be issued up to any point of study to any student on request and by paying the stipulated fee in force.
- v) Candidates shall be permitted to apply for recounting/revaluation within the stipulated period with payment of prescribed fee.
- vi) The Academic Council has to approve and recommend to the JNTUK, Kakinada for the award of a degree to any student.

8 WITH HOLDING OF RESULTS:

If the candidate has not paid any dues to the College or if any case of indiscipline is pending against him, the result of the candidate will be withheld. The issue of degree is liable to be withheld in such cases.

9 TRANSISTORY REGULATIONS

Candidates who have discontinued or have been detained for want of attendance or who have failed after having undergone the course are eligible for admission to the same or equivalent subjects as and when subjects are offered.

GENERAL

- 9.1 The academic regulations should be read as a whole for purpose of any interpretation.
- 9.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final and which is to be ratified by the Chairman of the Governing Body.
- 9.3 The College may change or amend the academic regulations and syllabus at any time and the changes and amendments made shall be applicable to all the students with effect from the date notified by the college.
- 9.4 Wherever the word he, him or his occur, it will also include she, her and hers.