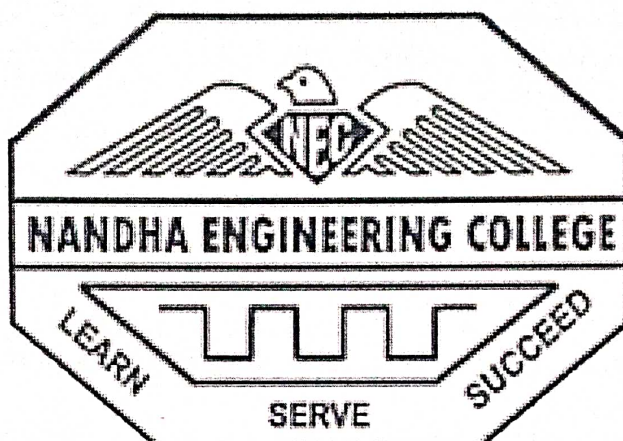


NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

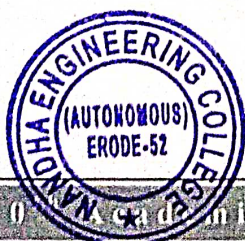
(Affiliated to Anna University, Chennai and approved by AICTE New Delhi)

Erode-638 052, Tamil Nadu, India, Phone: 04294 – 225585



Rules and Regulations - 2022 [R22] CHOICE BASED CREDIT SYSTEM (CBCS) for Post-Graduate Degree Programmes

(Applicable to Students admitted from the academic year 2022-2023 onwards)




PRINCIPAL

Nandha Engineering College
(Autonomous)

Erode - 638 052

Approved in 10th Academic Council Meeting

REGULATIONS 2022 (R22) CBCS FOR POST-GRADUATE DEGREE PROGRAMMES

The following Regulations are applicable to the students admitted to M.E., M.C.A and M.B.A. Programmes from the academic year 2022-2023.

1. PREAMBLE:

Institution is gearing up for several initiatives towards academic excellence, quality improvement and administrative reforms. In view of this priority and in-keeping with the Institution's Vision and Mission; process was already initiated towards introduction of semester system, grading system, credit system, CBCS (in which the students can choose courses of their own choice) and OBE in line with AICTE, UGC and Anna University, Chennai guidelines.

In order to enhance the flexibility in learning and satisfy the needs of the students so as to keep up-to-date developments, Nandha Engineering College has framed this REGULATION-2022. In short, it will be referred to as R22.

Academic Programmes of the Institute are governed by rules and regulations approved by the Governing Council. The academic rules and regulations are applicable to the students admitted into first year of postgraduate programs offered by the college leading to Master degree from the academic year 2022-23 onwards.

2. DEFINITIONS AND NOMENCLATURE:

In this Regulation, unless the context otherwise specifies

- 2.1 **"Programme"** means Degree Programme that is M.E., MCA & MBA Degree Programme.
- 2.2 **"Branch"** means a discipline of the Post Graduate Degree Programme like Structural Engineering, Engineering Design, etc.
- 2.3 **"Course"** means a Theory or Practical subject that is normally studied in a semester, like Applied Mathematics, Advanced Thermodynamics, High Voltage Lab., etc.
- 2.4 **"Credit"** means a numerical value allocated to course units to describe the students' workload required per week.
- 2.5 **"Grade"** means the letter grade assigned to each course based on the marks range specified.
- 2.6 **"Grade Point"** means a numerical value (0 to10) allocated based on the grade assigned to each course.
- 2.7 **Choice-Based Credit System (CBCS):**
 - CBCS is a flexible system of learning that permits students to learn at their own pace
 - Choose electives from a wide range of elective courses offered by the departments
 - Adopt an inter-disciplinary approach in learning
 - Make best use of the expertise of available faculty.
- 2.8 **"University"** means affiliating University, ANNA UNIVERSITY, CHENNAI.
- 2.9 **"Head of the Institution"** means the Principal of the College.
- 2.10 **"Controller of Examinations"** means the authority of the College who is responsible for all activities of the Examinations.
- 2.11 **"HoD"** means Head of the Department
- 2.12 **"BoS"** means Board of Studies

- 2.13 “AC” means Academic Council
 2.14 “GB” means Governing Body
 2.15 “SCAA” means Standing Committee for Academic Affairs
 2.16 “DAB” means Department Advisory Board
 2.17 “PAC” means Programme Advisory Committee

3 PROGRAMMES OFFERED, MODES OF STUDY AND ADMISSION REQUIREMENTS

3.1 P.G. PROGRAMMES OFFERED:

3.1.1 A student may be offered admission to any one of the following programme of study and offered at various departments of the College.

- M.E.
- M.B.A.
- M.C.A.

3.1.2 Faculty-wise details of Programmes currently being offered by the College.

PROGRAMME	BRANCH	MODE
M.E.	COMPUTER SCIENCE AND ENGINEERING	Full-Time
	ENGINEERING DESIGN	
	STRUCTURAL ENGINEERING	
	VLSI DESIGN	
M.B.A.		
M.C.A.		

3.2 MODE OF STUDY:

Full-Time: Candidates admitted under ‘Full-Time’ should be available in the College / Institution during the entire duration of working hours (From Morning to Evening on Full-Time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time candidates should not attend any other Full-Time programme(s) / course(s) or take up any Full-Time job / Part-Time job in any Institution or Company during the period of the Full-Time programme. Violation of the above rules will result in cancellation of admission to the PG programme.

3.3 ADMISSION REQUIREMENTS:

Students for admission to the M.E./MBA/MCA degree programme will be required to satisfy the conditions of admission thereto prescribed by the University and Government of Tamil Nadu. Detailed admission criterion is given below.

3.3.1 Candidates for admission to the first semester of the Postgraduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria.

Note: TANCA releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each Programme. Any

other relevant qualification which is not prescribed against each Programme shall be considered for equivalence prescribed by the University and Government of Tamil Nadu. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

3.3.2 However, the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed at the time of admission.

3.3.3 Notwithstanding the qualifying examination the candidate might have passed, the student shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the University from time to time.

3.3.4 Eligibility conditions for admission such as the class obtained, the number of attempts in qualifying examination and physical fitness will be as prescribed by the University from time to time.

4 STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses:

Every Post Graduate Degree Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i **Foundation Courses (FC)** may include Mathematics or other basic courses
- ii **Professional Core Courses (PCC)** courses include the core courses relevant to the chosen specialization/branch.
- iii **Professional Elective Courses (PEC)** courses include the elective courses relevant to the chosen specialization/ branch.
- iv **Open Elective Courses (OEC)** are of importance in the context of special skill development.
- v **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Seminar, Professional Practices, Case Study and Industrial / Practical Training.

A student may be permitted to choose a maximum of 2 electives from other PG Programmes with the approval of the Head of the Department offering such courses.

4.2 Courses per Semester:

Curriculum of a semester shall normally have a blend of lecture courses and practical courses including Employability Enhancement Courses. Each course may have credits assigned as per clause 4.3.

4.3 Credit Assignment:

Contact period per week	Credits (C)
One Lecture Period (L)	1
One Tutorial Periods (T)	1
Two Practical Periods (P) - Laboratory/Seminar /Project Work, etc.	1
The Contact Periods per week for Practical can only be in multiples of 2.	

4.4 Project Work:

- 4.4.1 The project work for M.E., Programmes consist of Phase-I and Phase-II. The Phase-I is to be undertaken during III semester and Phase-II, which is a continuation of Phase-I is to be undertaken during IV semester. For all other programmes (M.C.A. / M.B.A.) the Project Work has to be undertaken in the final semester.

- 4.4.2 In case of candidates of M.E., Programmes not completing Phase-I of project work successfully, the candidates can undertake Phase -I again in the subsequent semester. In such cases the candidates can enroll for Phase-II, only after successful completion of Phase-I.
- 4.4.3 The Project work for M.C.A., M.B.A, M.E (for Phase II Project work) shall be pursued for a minimum of 16 weeks during the final semester.
- 4.4.4 The Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means a faculty member possessing (i) PG degree with a minimum of 3 years of teaching experience or (ii) Ph.D. degree.
- 4.4.5 A candidate may, however, in certain cases, be permitted to work on projects in an Industrial/Research Organization, on the recommendations of the Head of the Department Concerned. In such cases, the Project work shall be jointly supervised by a supervisor of the department and an expert, as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress.
- 4.4.6 The deadline for submission of final Project Report is 60 calendar days from the last working day of the semester in which project / thesis / dissertation is done. However, the Phase-I of the Project work in the case M.E., Programmes shall be submitted within a maximum period of 30 calendar days from the last working day of the semester as per the academic calendar published by the College.

4.4a Fast-track courses

The students, who have completed their 2nd semester courses, shall undergo their 3rd semester courses other than project work under fast-track mode. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations for approval at least 2 weeks before the commencement of the 3rd semester of the programme for approval. Such students who have completed 3rd semester in advance shall be permitted to carry out their project (Phase-I and Phase-II) in Industry/Research Organization.

4.5 Industrial Training / Internship

- 4.5.1 The students may undergo Industrial training for a period as specified in the curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period. The students may undergo Internship at Research organization / University (after due approval from the Head of the Department) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.
- 4.5.2 If Industrial Training / Internship is not prescribed in the curriculum, the student may undergo Industrial Training / Internship optionally and the credits earned will be indicated in the Mark Sheet. If the student earns three credits in Industrial Training / Internship, the student **may drop one Professional Elective**. In such cases Industrial Training / Internship needs

to be undergone continuously from one organization only. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. The student is only allowed to undergo a maximum of 6 weeks Industrial Training / Internship during the entire duration of study.

Duration of Training /Internship	Credits
2 weeks	1
4 weeks	2
6 weeks	3

4.6 Value Added Courses:

The Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department of an institution with the prior approval from the Head of the Institution. The details of the syllabus, time table and faculty may be sent to the Controller of Examinations after approval from the Head of the Institution concerned atleast one month before the course is offered. Students can take a maximum of two one credit courses / one two credit course during the entire duration of the Programme.

4.7 Online Courses:

Students can register and earn credits for online courses from first semester onwards with the prior approval of a department committee consisting of HoD, Programme coordinator and subject expert. A candidate who completes online courses successfully may obtain course exemption from studying Professional/Open Elective courses. This online course of 3 credits can be considered instead of one Professional/Open elective course. Students can earn up to 6 credits per semester through online courses and exemption of elective courses (PEC/OEC) is permitted with the recommendations HoD and approval of Principal.

4.8 Self-Study Courses:

A student can opt for Self-Study of a Professional Elective Course on specific approval of HoD provided the student does not have current arrears. The students shall study on their own under the guidance of a faculty member approved by the HoD who will be responsible for the periodic monitoring and evaluation of the course.

4.9 Medium of Instruction:

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports.

5 DURATION OF THE PROGRAM:

- 5.1** The minimum and maximum period for the completion of the P.G. Programmes are given below:

- | Programme | Min. No. of Semesters | Max. No. of Semesters |
|--------------------|-----------------------|-----------------------|
| M.E. (Full-Time) | 4 | 8 |
| M.C.A. (Full Time) | 4 | 8 |
| M.B.A. (Full Time) | 4 | 8 |
- 5.2** Each semester shall normally consist of 75 working days or 540 periods of each 50 minutes duration, for full-time mode of study. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3** The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break of study (vide clause 16) or prevention (vide clause 7.4) in order that the student may be eligible for the award of the degree (vide clause 14).
- 5.4** The Curriculum of P.G. Programmes shall be so designed that the prescribed credits required for the award of the degree shall be within the limits specified below:

PROGRAMME	PRESCRIBED CREDIT RANGE
M.E.	70 to 75
M.B.A.	80 to 95
M.C.A.	80 to 95

6 COURSE ENROLLMENT AND REGISTRATION

- 6.1** Each student, on admission shall be assigned to a Faculty Advisor (vide clause 18) who shall advice and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- 6.2** Each student on admission shall register for all the courses prescribed in the curriculum in the student's first Semester of study.
- 6.2.1** The enrollment for the courses of will commence 10 working days prior to the last working day of the preceding semester from II Semester to Final Semester. The enrollment for the courses in Semester II will commence 10 working days prior to the last working day of Semester I. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the Semester II. However, the student is allowed to register for courses for which the student has not enrolled, if these are the courses in which the student has failed.
- 6.2.2** After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.
- 6.3** A department shall offer a course only if a minimum number of students register for that course. This minimum number may vary from course to course and shall be specified by the department from time to time.
- 6.4** A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve the student's marks in a course or the aggregate marks / CGPA.

6.5 MINIMUM CREDITS TO REGISTER FOR PROJECT WORK

- 6.5.1 The Project work for M.E. consists of Phase – I and Phase – II. The Phase – I is to be undertaken during III semester and Phase – II, which is a continuation of Phase – I is to be undertaken during IV semester. For all other programmes, the Project Work has to be undertaken in the final semester. Minimum credits shall be as follows:

PROGRAMME	MINIMUM NUMBER OF CREDITS TO BE EARNED
M.E.	24 for Phase-I
M.C.A.	45
M.B.A.	50

- 6.5.2 If the student has not earned the requisite minimum credits, the student cannot enroll for the Project work (Phase I in the case of M. E.). In such a case, the student can enroll for the project work in a subsequent semester, after earning the minimum credits specified.

6.6 FLEXIBILITY TO ADD OR DROP COURSES

- 6.6.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. However, if the student wishes, the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme.

- 6.6.2 From the II to Final semesters, the student has the option of registering for additional courses or dropping existing courses. Total number of credits of such courses cannot exceed 6.

The maximum number of credits the student can register in a particular semester cannot exceed 30 credits for M.E., programmes (including courses for which the student has done reappearance registration (vide clause 6.7)).

The maximum number of credits the student can register in a particular semester cannot exceed 36 credits for MBA & MCA programmes (including courses for which the student has done reappearance registration (vide clause 6.7)).

6.7 REAPPEARANCE REGISTRATION

- 6.7.1 Reappearance registration in the subsequent semester for Theory course:
If a student fails in a theory course, the student shall do **reappearance registration** for that course in the subsequent semester.

If a student fails to secure a pass in a theory course (except electives)/ laboratory courses, the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secure a pass. However, from the third attempt onwards if a student fails to obtain pass marks (CA + End Semester Examination) as per clause-11, then the student shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the end semester examinations alone.

6.7.2 Reappearance Registration is applicable for the following cases:

- ✓ If a student fails in a theory course, the student shall do reappearance registration for that course in the subsequent semester.
- ✓ If the theory course, in which the student has failed, is a professional elective or an open elective, and the student chooses to opt for the same professional elective or open elective course, the student shall do reappearance registration for that course(s) in the subsequent semester.
- ✓ If a student has applied for withdrawal from writing end semester examination of a course (Theory / Laboratory / Elective) the student shall do reappearance registration for that course in the subsequent semester when it is offered next. Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.

6.8 REPEATING THE COURSE

- 6.8.1 If a student is prevented from writing end semester examination of any course due to lack of attendance and that course is a core course (Theory / Laboratory), the student has to register for that course again, when offered next, and repeat the course. In this case, the student shall attend the classes and fulfill the attendance requirements as per clause 7. If the course is a Professional Elective Course or an Open Elective Course and the student opts for the same course, the student has to register for that course again, when offered next, and repeat the course. In this case, the student shall attend the classes and fulfill the attendance requirements as per clause 7.

7 ATTENDANCE REQUIREMENTS FOR APPEARING END SEMESTER EXAMINATION OF A COURSE

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester.

- 7.1 Ideally every student is expected to attend all classes and earn 100% attendance. However in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to become eligible to write the End-Semester Examinations. Therefore, every student shall secure not less than 75% of overall attendance in that semester.
- 7.2 If a student secures overall attendance between 65% and less than 75% in any course in the current semester due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Head of the Department concerned and Head of Institution, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end semester examination of that course. In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the Faculty Advisor.
- 7.3 A student shall normally be permitted to appear for End semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examination in those courses of that semester by paying the prescribed fee.

- 7.4 Students who do not satisfy clause 7.1 and 7.2 and who secure less than 65% of overall attendance will not be permitted to write the End-Semester Examination of that course. The student has to register and repeat this course in a subsequent semester when it is offered next (vide clause 6.8).

8 ASSESSMENT PROCEDURE FOR AWARDING MARKS

The system of examination is semester pattern. The End semester examination for theory and practical courses shall be conducted for duration of three hours and shall normally be during the month of November / December and April / May every year.

8.1 ASSESSMENT:

- 8.1.1 The assessment will comprise of End Semester (ES) and/or Continuous Assessment (CA), carrying marks as specified in the scheme in section 9.0. The CA marks will be awarded on assessing the student continuously during the semester. The assessment for theory courses with CA and ES components will be done by absolute grading system. However, for the purpose of reporting the performance of a student, letter grades and grade points will be awarded as per grading norms stipulated in clause 13.

- 8.1.2 Each course shall be evaluated for a maximum of 100 marks:

S. No	Category of course	Continuous Assessment	End Semester Examinations
i	Theory Courses	40 Marks	60 Marks
ii	Theory + Project Course (Project Based Learning -PBL)	40 Marks	60 Marks
iii	Laboratory Courses	60 Marks	40 Marks
iv	Embedded Courses Theory + Laboratory	50 Marks	50 Marks
v	Project Work	40 Marks	60 Marks
vi	Other EEC courses	100 Marks	-

8.1.3 PROJECT WORK

- The Phase I & II of ME projects and final year project of MBA/MCA will be evaluated by continuous evaluation and end semester examination. Individual Project work shall be allotted to each student.
- The deadline for submission of final Project Report is the last working day of the semester in which project / thesis /dissertation is done as per the academic calendar published by the College.
- Every candidate doing M.E., shall publish or present a paper in a journal or a conference based on his/her project work. An acknowledgement for having communicated to the journal or conference shall be attached with the report of the project work.

- 8.2 Internal and External examiners shall be appointed by the Head of the Institution for all the end semester examinations (theory, practical courses and project work).

9.0 SCHEME OF EVALUATION

9.1	Theory Courses and Practical Courses						
Theory Courses – 100 marks				Practical Courses – 100 marks			
Continuous Assessment Test (CAT)			40 Marks	Continuous Assessment			60 Marks
End Semester Examination			60 Marks	End Semester Examination			40 Marks
Procedure for Continuous Assessment (40 marks)				Procedure for Continuous Assessment (60 marks)			
Component			Marks	Component			Marks
Two CAT examinations			2 x 60	Evaluation of laboratory Experiments <ul style="list-style-type: none">• Preparation -10• Conduct of Experiments - 30• Observation& Results -30• Record -10• Viva voce -20			100* (converted to 75)
Two Online tests/Case studies			2 x 15	Model Practical Examination I			50* (converted to 12.5)
Two Assignments (Team Assignment/ Individual Assignment/ Case study)			2 x 20	Model Practical Examination II			50* (converted to 12.5)
One seminar			1 x 10	-			-
Continuous Assessment marks			200* (converted to 40)	Continuous Assessment Marks			100* (converted to 60)
End Semester Examination Scheme for Theory Course				End Semester Examination Scheme for Practical Course			
Examination duration : 3 hours Max. marks : 100 → Reduced to 60 marks				Examination duration : 3 hours Max. marks : 100 → Reduced to 40 marks			
9.2	PROJECT WORK						
Project Work (Marks: 100)							
Project Work – Phase I / Project Work – Phase II							
Project work Phase-I & II will be evaluated by continuous assessment (40) and end semester assessment (60).							
Continuous Assessment Mark (40 marks)			End semester assessment – 100 marks (Reduced to 60 marks)				
Review -1	Review -2	Review -3	Thesis Submission	Viva-Voce			
			External Examiner	Internal Examiner	External Examiner	Supervisor	
10	15	15	25	10	15	10	

- 9.2.1 The evaluation of Project Work for Phase-I & Phase-II in the case of M.E., and project work of M.B.A and M.C.A shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in 9.2.
 - 9.2.2 The Head of the Department shall constitute the review committee for each branch of study. There shall be of minimum two assessments during the Semester by a review committee. The Student shall make presentation on the progress made before the Committee. There will be a vice-voce Examination during End Semester Examinations conducted by a Committee consisting of the Supervisor, one Internal Examiner and one External Examiner.
 - 9.2.3 The Project Report prepared according to approved guidelines and duly signed by the supervisor(s) and the Head of the Department concerned, shall be submitted to the Head of the Institution.
 - 9.2.4 The evaluation of the Project Work Phase - I & Phase - II (M.E.,) will be based on the project report submitted in each of the Phase – I & Phase - II semesters and a Viva-Voce Examination by a team consisting of the supervisor, an internal examiner (other than the supervisor) and an External Examiner for each programme. The internal examiner and the external examiner shall be appointed by the Head of the Institution the evaluation.
 - 9.2.5 If the student fails to obtain 50% of the internal assessment marks in the Phase-I and Phase-II of M.E. or the Final Project work of M.B.A. / M.C.A, he/she will not be permitted to submit the report for that particular semester and has to repeat/redo the course in the subsequent semester.
 - 9.2.6 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall repeat/redo the same in a subsequent semester. This applies to both Phase-I and Phase-II in the case of M.E., Project Work and the Final Project work of M.B.A. / M.C.A.
 - 9.2.7 If a candidate fails in the viva-voce examinations of Phase-I, he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If the student fails in the viva-voce examination of Phase-II of Project work of M.E., or the Final Project work of M.B.A. / M.C.A, the student shall resubmit the Project Report within 60 days from the date of declaration of the results. For this purpose the same Internal and External examiners shall evaluate the resubmitted report.
 - 9.2.8 A copy of the approved Project Report after the successful completion of viva-voce examinations shall be kept in the library of the college /Institution.
- Embedded Course (Theory Courses with Laboratory component):
- 9.3 Theory + Project (PBL) / Laboratory Course**
- Every component of Theory + Project (PBL)/laboratory courses will be assessed individually as given below.

(a) Components of Course: Theory + Project (PBL) =100 marks			
Continuous Assessment (40%) = 40 Marks		End Semester Examination (60%) = 60 Marks	
Two CAT examinations	2 x 60 = 120 marks	Max. marks : 100 Examination duration : 3 hours	
One online test	1 x 20 = 20 marks		
Two PBL reviews	2 x 20 = 40 marks		
Project report	20 marks		
Total marks	200 marks		
200 marks → converted to 40		100 marks → converted to 60 marks	
Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45 % of marks prescribed for the end semester examination (Clause 11)			

(b) Components of Embedded Course [Theory + Laboratory] = 100 marks						
Continuous Assessment = 50 Marks + End Semester Exam = 50 Marks = Total: 100 marks						
Continuous Assessment : 50% [25% weightage for Theory + 25 % weight for Laboratory]		End semester examination: 50%	L	T	P	C
CA theory: 25%	CA Lab: 25%	Laboratory only 50%	1	0	4	3
Two CAT exams. 2 x 60 = 120	Observation, record: = 75		1	0	2	2
Two Online tests 2 x 15 = 30	Test: 2 x12.5 = 25	Theory 25% + Lab 25%	2	0	2	3
Two Assignment 2 x 20 = 40	Continuous Assessment Marks 100* (converted to 25)	Theory 35% + Lab 15%	3	0	2	4
Seminar 1 x 10 = 10		Theory 15% + Lab 35%	2	0	4	4
Continuous Assessment Marks 200* (converted to 25)						
End semester examination shall be conducted for 100 marks for theory and laboratory respectively and weighted average shall be converted as per the table.						
Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11).						

10.1 OTHER EMPLOYABILITY ENHANCEMENT COURSES

10.1.1 ASSESSMENT FOR SEMINAR / CASE STUDY:

The seminar / Case study shall carry 100 marks and shall be evaluated through continuous assessment only. Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper / report (40%), presentation (40%) and response to the questions asked during presentation (20%).

10.1.2 ASSESSMENT FOR INDUSTRIAL / PRACTICAL TRAINING / INTERNSHIP / SUMMER PROJECT

The Industrial / Practical Training shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The committee comprises of one expert from an industry/organisation and two members of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list (with grade) and sent to Controller of Examinations.

INTERNSHIP / INDUSTRIAL TRAINING		
EVALUATION		
REPORT	PRESENTATION	VIVA VOCE
40	30	30

10.2 ASSESSMENT FOR VALUE ADDED COURSE

The one/two credit course shall carry 100 marks and shall be evaluated at the end of the course through continuous assessments only by the course handling industry/institutional experts. The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations. The Head of the Department may identify a faculty member as coordinator for the course to monitor the conduct and evaluation process of the course.

10.3 ASSESSMENT FOR ONLINE COURSES

Students may be permitted to register for online courses as specified in clause 4.7. The credits specified on the online course certificate may be transferred after appropriate verification by the department/CoE and considered for exemption of courses.

10.4 ASSESSMENT FOR SELF STUDY COURSE

The evaluation methodology shall be the same as that of a theory course (vide clause 9.1)

10.5 A Re-CAT covering the entire syllabus shall be conducted for those Students who were absent with valid reasons for any of the two tests. The marks obtained shall be considered against the test absented. But, the eligibility of students for re-test will be decided by the SCAA. The Students absenting for more than one test shall forego the marks accordingly.

10.6 Every Faculty is required to maintain a 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Departments periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Departments will put his signature and date after due verification at the end of the semester, the record should be verified by the

Head of the Institution. The above documents shall be kept in safe custody for five years.

- 10.7 The Practical classes for all the Practical /Lab component subjects will be assessed continuously and marks will be entered in the assessment record. If a student is absent for a particular Laboratory class, then the Student will be permitted to perform experiments based the recommendation of the Head of the Department during repeat classes conducted at the end of completion of all the experiments.

11 PASSING REQUIREMENTS

- 11.1 A student shall be deemed to have passed a theory course with CA and ES components, if
- he/she secures at least 45% in the End Semester examination
 - total marks secured by him/her (CA and ES put together) is at least 50%.
 - A student is deemed to have passed in any course carrying only continuous assessment marks if the total mark secured by him/her is at least 50%.
 - A student is deemed to have passed in Project work if he/she secures at least 45% in the End Semester examination and the total mark secured by him/her is at least 50%
- 11.2 If a student fails to secure a pass in a theory course (except electives), the student shall do reappearance registration for that course in the subsequent semester (vide clause 6.7.2)
- 11.3 If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to register for the same or any other professional elective or open elective course in the subsequent semesters, attend the classes and fulfill the attendance requirements as per Clause 7.
- 11.4 If a student fails to secure a pass in a laboratory course, the student shall register for the course again, when offered next.
- 11.5 If a student fails to secure a pass in project work, the student shall register for the course again, when offered next.
- 11.6 The passing requirement for the courses which are assessed only through internal assessment (EEC courses except project work), is 50% of the internal assessment marks.
- 11.7 If a student has failed in the final semester examination he/ she may be allowed to register for the course in the next semester itself.

12 REVALUATION OF ANSWER SCRIPTS

- 12.1 A student shall apply for revaluation of his / her semester examination answer script in a theory course within two weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations. The Controller of Examinations shall arrange for the revaluation and the results shall be intimated to the candidate concerned. Revaluation is not permitted for practical courses and project work
- 12.2 A candidate shall apply for the Photocopy of his/her end semester examination answer script on payment of the prescribed fee through proper application to the Controller of Examinations after the revaluation results are announced to get himself / herself convinced of the valuation/revaluation.

12.3 REVIEW

Students not satisfied with revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examination through the Head of the Institution. Students applying for Revaluation only are eligible to apply for Review.

13 AWARD OF LETTER GRADES

13.1 All assessments of a course will be done on relative grading marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain points specified, will be awarded as per the range of total marks (out of 100) obtained by the candidate (Regular or Arrear), as detailed below

Letter grade	Grade Points	Marks Range
O (Outstanding)	10	91 - 100
A + (Excellent)	9	81 - 90
A (Very Good)	8	71 - 80
B + (Good)	7	61 - 70
B (Average)	6	56 - 60
C (Satisfactory)	5	50 - 55
U (Reappearance)	0	< 50
SA (Shortage of Attendance)	0	-
WD (Withdrawal)	0	Withdrawal

- ✓ A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”, “C”.
- ✓ ‘SA’ denotes shortage of attendance (as per clause 7.4) and hence prevention from writing the end semester examinations. ‘SA’ will appear only in the result sheet.
- ✓ “U” denotes that the student has failed to pass in that course. “WD” denotes withdrawal from the exam for the particular course. The grades U and WD will figure both in Marks Sheet as well as in Result Sheet). In both cases the student has to earn Continuous Assessment marks and appear for the End Semester Examinations.
- ✓ If the grade W is given to course, the attendance requirement need not be satisfied.
- ✓ If the grade U is given to a core theory course, the attendance requirement need not be satisfied, but if the grade U is given to a Laboratory Course/ Project work / Seminar and any other EEC course, the attendance requirements (vide clause 7) should be satisfied.

13.2 The grades O, A+, A, B+, B, C obtained for the one credit/two credit courses shall figure in the Mark sheet under the title ‘Value Added Courses’. The other grades U, SA will not figure in the mark sheet.

13.3 GPA AND CGPA CALCULATION

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- List of courses registered during the semester and the grades scored.
- Grade Point Average (GPA) for the semester and

- Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards.

During each semester, the list of courses registered and the grades scored in each course are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester.

$$GPA = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$$

Where,

- C_i - is the Credits assigned to the course,
- GP_i - is the grade point corresponding to the letter grade obtained for each course
- n - is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. “RA” and “SA” grades will be excluded for calculating GPA and CGPA.

- The credits earned through one credit courses shall not be considered for calculating GPA and CGPA.
- If a student studies more number of electives (PEC/OEC) than required as per the student’s programme curriculum, the courses with higher grades alone will be considered for calculation of CGPA.

14 ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of the PG Degree (M.E., M.C.A., M.B.A.) provided the student has

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student’s programme within the stipulated time.
- M.E., M.B.A., and M.C.A
Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the candidate was admitted.
- Successfully passed any additional courses prescribed by the Institute whenever readmitted under regulations other than R-22 (vide clause 17.3)
- No disciplinary action pending against the student.
- The award of Degree must have been approved by the University.

15 CLASSIFICATION OF THE DEGREE AWARDED**15.1 FIRST CLASS WITH DISTINCTION:**

A Student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

M.E., M.B.A., and MCA

- Should have passed the examination in all the courses of all the four semesters in the student's First Appearance within three years, which includes authorised break of study of one year (if availed). Withdrawal from examination (vide Clause 16) will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50.
- Should NOT have been prevented from writing end Semester examination due to lack of attendance in any of the courses.

15.2 FIRST CLASS:

A student who satisfies the following conditions shall be declared to have passed the examination in first class:

M.E., M.B.A., AND MCA

- Should have passed the examination in all the courses of all four semesters within three years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).
- Should have secured a CGPA of **not less than 6.50**

15.3 SECOND CLASS:

All other students (not covered in clauses 15.1 and 15.2) who qualify for the award of the degree (vide clause 14) shall be declared to have passed the examination in Second class.

- 15.4** A student who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 16) for the purpose of classification.

15.5 AWARD OF RANK

The rank shall be awarded based on the following:

- **M.E., M.B.A., AND MCA:** A Student who qualifies for the award of Degree by passing examination in all the subjects of the entire course with first attempt within a period of three consecutive years from the date of admission is eligible for the award of rank. The student who loses one or more years of study for any reasons whatsoever is not eligible for the award of rank. Students transferred from other Institutions are not eligible for the calculation of rank.
- The rank is determined based on the total marks secured from I Semester to IV Semester for M.E/M.B.A./MCA

16 PROVISION FOR WITHDRAWAL FROM EXAMINATION:

- 16.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by HOD) be granted permission to withdraw from appearing for

the end semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to the Head of the Institutions with required documents.

- 16.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Department and approved by the Head of the Institution.

16.2.1 Notwithstanding the requirement of mandatory 10 days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

- 16.3 In case of withdrawal from a course / courses, the course will figure both in Marks Sheet as well as in Result Sheet. Withdrawal essentially requires the student to register for the course/courses. The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.

- 16.4 Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 3 years for M.E., M.B.A., MCA as per clause 15.1.

17 AUTHORIZED BREAK OF STUDY FROM A PROGRAMME

- 17.1 A student is permitted to go on break of study for a maximum period of one year either as two breaks of one semester each or a single break of one year.

- 17.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he /she applies to the Head of the Institution, in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of rejoining the programme.

- 17.3 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Head of the Institution in the prescribed format at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

- 17.4 The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 15.1).

- 17.5 The total period for completion of the Programme reckoned from, the

commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

17.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 17.1)

17.7 If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.

18 FACULTY ADVISOR

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a teacher of the Department who shall function as Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students in registering and reappearance registering of courses, authorize the process, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress / performance of the students concerned. The responsibilities for the faculty advisor shall be:

- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.

19 COURSE COMMITTEES

19.1 COMMON COURSE COMMITTEE

A theory course handled by more than one faculty member shall have a "Common Course Committee" comprising of all faculty members teaching that course (either in a department or across the departments) and two student representatives from each class of that course. One of the faculty members shall be nominated as Course Coordinator by the Head of the Department duly approved by the Principal.

Meeting Schedule:

0 th meeting	Within 5 days from the commencement of the semester
1 st meeting	Within 5 days after CAT-1
2 nd meeting	Within 5 days after CAT-2

In addition the "Common Course Committee" (without the student representatives) shall meet to ensure the following

- preparing a common question paper for the continuous assessment tests
- Uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 9).

20 DISCIPLINE:

- Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of the Institution shall constitute a disciplinary committee to enquire into acts of indiscipline and notify the punishment.
- If a student indulges in malpractice in any of the examinations, he / she shall be liable for punitive action as per the examination rules prescribed by the college from time to time.

21 REVISION OF REGULATIONS AND CURRICULUM

The Institution may from time to time revise, amend or modify the regulations, courses of study, scheme of examinations and syllabi as and when found necessary with the approval of the Academic council. In case of difference of opinion regarding the interpretation of the regulations, the decision of the Chairman of the Governing Council shall be the final. Notwithstanding all that has been stated above, the Governing Council has the right to modify any of the above rules and regulations from time to time.

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