SHIKSHAA INSTITUTE OF ADVANCED TECHNOLOGIES

REGULATIONS 2021

CHOICE BASED CREDIT SYSTEM

Common to M.E. / M.CA. / MBA Full-Time Programmes

(For the students admitted to M.E. / M.C.A./MBA Programme from the Academic year 2024- 2025 onwards)

1. DEFINITIONS AND NOMENCLATURE

- i. "**Programme**" means Degree Programme e.g. M.E. / M.C.A / MBA Degree Programme.
- ii. "**Specialization**" means discipline of the Post Graduate Degree Programme like Manufacturing Engineering, Power Electronics and Drives, etc.
- iii. "Course" means a Theory or Practical subject that is normally studied in a semester, like Applied Probability and Statistics, Advanced in Manufacturing Technology, Electronic System Design Lab., etc
- iv. "Controller of Examinations" means the Authority of the Institution who is responsible for all activities of the End Semester Examinations of the Institution.
- v. "Head of the Institution" means the Principal of the Institution.
- vi. "Head of the Department" means Head of the Department concerned.
- vii. "University" means ANNA UNIVERSITY, CHENNAI.

2. ADMISSION PROCEDURE

The candidates seeking admission to the two-year /five-year integrated programme shall require satisfying the eligibility norms prescribed by the affiliating University and Government of Tamilnadu at the time of admission from time to time.

2.1 Eligibility Criteria

M.E: A pass in the respective Engineering Bachelors Degree (or) equivalent from a recognized university as specified under qualification for admission as per the Tamil Nadu CommonAdmission (TANCA) criteria. Those who are awaiting their degree examination results may also apply.

MBA: A pass in any Under Graduate degree or equivalent from a recognized university as specified under qualification for admission as per the Common Entrance Test criteria. Those who are awaiting their degree examination results may also apply.

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(OR)

Any other qualification as prescribed by the University.

3. PROGRAMMES OFFERED AND MODE OF STUDY

Programmes Offered

- I. Programmes offered in the Faculty of Embedded System Technologies
 - M.E (Embedded System Technologies), Full Time
 - II. Programmes offered in the Faculty of Electrical Engineering
 - M.B.A (Artificial Intelligence And Data Science), Full Time
 - III. Programmes offered in the Faculty of Management Science
 - MBA (2 Years)
 - IV.Programmes offered in the Faculty of Management Science
 - M.C.A (2 Years)

Mode of Study:

Candidates applying for M.E./M.C.A/MBA programme are admitted only under "Full-Time" and 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.

4. STRUCTURE OF THE PROGRAMMES

Categorization of Courses

Every Programme shall have a curriculum with syllabi comprising of Theory, Theory-cum-Practical and Practical courses with well-defined Programme Outcomes (PO) and Programme Educational Objectives (PEO) as per the Outcome Based Education (OBE) model prescribed by the respective Board of Studies from time to time. The content of each course is designed based on the intended Course Outcomes (CO). The courses shall include:

- i) Foundation Courses (FC) which include Mathematics or other basic courses.
- **ii**) **Professional Core Courses (PCC)** which include the core courses relevant to the chosen branch / specialization.
- **iii) Professional Elective Courses (PEC)** which include the elective courses relevant to the chosen branch / specialization.
- iv) Research Methodology and IPR Courses (RMC) to understand the importance and the process of creation of patents through research.
- v) Open Elective Courses (OEC) offered by a department to the students of other departments across all the disciplines. The students can choose from list of courses categorized under open elective courses.
- vi) Employability Enhancement Courses (EEC) which include project work, and /or Internship, seminar, professional practices, case study, value-added courses, audit courses, industrial/practical training, etc.
- vii) Audit Courses (AC) expose the students to Unnat Bharath Abhiyan, Constitution of India, Essence of Indian Knowledge Traditional, Yoga, English for Research Paper Writing, Value education, Pedagogy Studies, Stress Management and Personality Development throughLife Enlightenment Skills. Registration for any of these courses is optional to students.

Courses per Semester

Curriculum of each semester shall normally have a blend of theory courses and practical courses including Employability Enhancement Courses. The online Courses may be accounted based on the regulation. Each course may have credits assigned as per **clause 4.3**. However, the total number of courses per semester shall not exceed 6 for M.E./M.CA, 8 for MBA(2 Year) and practical courses not exceeding 3 (including EEC).Pre-final semester may have1 to 3 theory courses and Project Work Phase I. The final semester may have Project Work phaseII.

Credit Assignment

Each course is assigned certain number of credits based on Table 2. The Contact Periods per week for Practical can only be in multiples of 2. The length of the semesters shall be 15 to 18 weeks. Credit for a course shall vary from 1 to 4.

Table 2 Contact period based on credits

Contact Period per week	Credits
1 Lecture (L) Period	1
1 Tutorial (T) Periods	1
2 Practical Periods (also for EEC courses like Seminar /	1
Project work / Case study, etc.)	

Project Work

The project work consists of Phase–I and Phase–II for M.E./ M.Tech. programme and Final Project work for MBA programme. The Phase–I is to be undertaken during III semester, Phase–II, which is a continuation of Phase–I is to be undertaken during IV semester for M.E./ M.CA. and Final project work is to be undertaken during final semester of MBA (2 Years) and MBA (5 Years)

In case, the students are not completing Phase-I of project work successfully, they can undertake Phase-I again in the subsequent semester. In such cases they can enroll for Phase-II, only after successful completion of Phase-I.

Project work shall be carried out under the supervision of a faculty member possessing PG degree with a minimum of 3 years of experience in teaching (or) Ph.D. degree.

A student may, however in certain cases, be permitted to work on the project in an Industrial /

Research organization on the recommendation of the Head of the Department, with the approval of the Head of the Institution. In such cases, the project work shall be jointly supervised by a Faculty member (Supervisor) of the department and an Engineer / Scientist from the organization and the student shall be instructed to report the progress periodically and to attend the project reviews for evaluating the progress. These students will produce a certificate of attendance from the Industry / Research organization where the project is carried out.

Phase II of the Project work shall be pursued for a minimum of 16 weeks during the final semester.

The deadline for submission of final Project Report is 30 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 shall be submitted within a maximum period of 15 calendar days from the last working day of the semester as per the academic calendar published by the Institution.

If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of two months will be given to the students for the submission of project work with due approval obtained from the Head of the Department.

Online Courses

Students will be permitted to do online courses during 1st to 3rd semesters for M.E/M.CA,M.B.A and 3rd to 8th Semesters for Integrated M.B.A with final certification exams(NPTEL) to earn up to a maximum of six credits(which are provided with certificate after evaluation of the performance) with the prior approval from the Head of the Department. The Head of the Department can constitute a committee, a team of senior faculty members (preferably three) to recommend the list of online courses. On successful completion of each online course, the student has to submit the copy of the certificate to the Head of the Department. The committee recommends the credit and the grade that should be awarded to the student by appropriately mapping the score earned by the student. The results can be sent to the Controller of Examinations after the due approval by the Head of the Department. On successful completion of online courses adding to three credits, the student can obtain a waiver from doing either a Professional Elective or an Open Elective.

Internship

The students may undergo Internship for a period as specified in the Curriculum during the summer / winter vacation. The students may undergo Internship at a Research organization / University / industry (after due approval from the Heads of the Departments) continuously for theentire period.

If Internship is not prescribed in the curriculum, the student may undergo Internship optionally and the credits earned through the Internship shall be over and above the total credit requirement for the award of the degree. The credit distribution is based on Table 3.

Table 3 Credit distribution for Internship

Duration of Internship	Credits
2 Weeks	1
4 Weeks	2

Value Added Courses

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. The Head of the Department can constitute a committee, a team of senior faculty members (preferably three) to recommend the list of value added courses. One/two credit courses shall be offered by a department with the prior approval from the committee. The details of the syllabus, timetable and faculty may be sent to the controller of examinations after approval from the Head of the Department. Students can take a maximum of two "one credit courses" or one "two credit courses". They shall be allowed to take one/two credit courses offered in other departments with the permission of the head of the department offering the course.

Audit Courses

The non-credited Audit courses having a minimum hours prescribed can be included in curriculum of all the programmes. The students can do one Audit course in 1st or 2nd semester.

Industrial Visit

Every student is required to go for at least one Industrial Visit every semester, starting from the first year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

Medium of Instruction

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

5. DURATION OF THE PROGRAMMES

The minimum and maximum period for completion of the P.G programmes are given in **Table 5.1**.

Programme	Min. No. of Semesters	Max. No. of Semesters
M.E. / M.CA. (Full-	4	8

Table 5.1 Duration to complete the PG Programme

Time) **MBA** 4 8

Each semester normally consists of 90 working days. In any contingent situation, the number of working days per semester shall not be less than 75 days. The Head of the Institution is given the discretionary powers to decide the number of working days in such contingencies.

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.

For III to IV Semester, the academic year has been divided into two semesters, the Odd semester normally spanning from July to November and the even semester from January to May.

The First semester of M.E. / M.C.A / MBA Degree (2 Year) Programme normally spansfrom August to December and Second semester from January to May.

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 Table 5.1, irrespective of the period of break of study (vide clause 17) or prevention (vide clause **7.4**), in order that the student may be eligible for the award of the degree (vide clause14).

6.COURSE REGISTRATION

Each student, on admission, shall be assigned to a Faculty Advisor (vide clause 8), who shall advise 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. 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. Each student on regular admission to a programme has to register for all the courses prescribed in the first semester of study for that programme.

The courses that a student registers, in a particular semester may include (i) Courses of the current semester, (ii) The core (Theory/Lab /EEC) courses that the student has not cleared in the previous semesters and (iii) Elective courses which the student had failed to clear (either the same elective or a different alternative elective).

The registration for the courses of the semesters II to IV will commence ten days prior to the commencement of classes of the current semester. The student shall register for the courses with the guidance of his faculty mentor. The student may also drop courses (**vide clause 5.3**) within five working days of the commencement of the concerned semester and complete the registration process.

For an elective to be offered, the department shall specify the minimum number of students required.

After registering for a course, a student should attend classes, satisfy attendance requirements, earn continuous assessment marks and appear for the end semester examinations.

Flexibility to Add or Drop courses

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 specified in the minimum duration of the programme.

From second semester onwards, each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits for full time). The dropping of courses shall be decided as per prerequisite requirements in consultation with the Head of the Department. The student can also register for courses in which the student had failed in the earlier semesters. In such cases the student shall do reappearance registration for those courses for which the attendance requirement is not compulsory. However, if a student has failed in a professional / open elective, he/she has the option to take up the same or some other professional / open elective.

Minimum Credits to Register for Project Work

The minimum number of credits to be earned to enroll for M.E Phase-I project is 24. If the student has not earned the requisite minimum credits, the student cannot enroll for the Phase–I of the Project work. In such a case, the student can enroll for the project work in a subsequent semester, after earning the minimum credits specified.

Redoing a Course

Redoing a course means reregistering for a course, attending all classes, fulfilling the attendance requirements as per clause 7, earning fresh Continuous Assessment marks and appearing for End Semester Examinations. A student has to redo a course in the following conditions.

If a student is prevented from writing end semester examination of any core course due to lack of attendance, the student has to register for that course again when offered next and redo the course.

If a student is prevented from writing the end semester examination of any professional/open elective course due to lack of attendance, the student can opt to register for the same course again when offered next and redo the course, or he/she can opt to register for a different professional/open elective course when it is offered, attend classes, fulfill the attendance requirements as per clause 7, secure Continuous Assessment marks and appear for End Semester Examinations.

If a student fails to secure a pass in any theory or Laboratory course (including elective theory), he/she is given a maximum of three consecutive attempts to complete the course as per **Clause 11**. The internal assessment marks will be valid only for next three consecutive semesters. However during that period, the student shall have a choice to carry forward the internal assessment marks for reappearance, or can be allowed to redo the internal assessment if necessary.

If the course in which the student fails to secure a pass even after three arrear attempts is a professional/open elective course, then the student can opt for a different professional/ open elective course, register for the same when it is offered, attend classes, fulfill the attendance requirements as per clause 7, secure Continuous Assessment marks and appear for End Semester Examinations.

The student who fails in Project work shall register for the course again, when offered next, and redo the course. In this case, the student shall attend there views and fulfill the attendance requirements as per clause 7.

The student who fails in Seminar / Internship / Case Study and Creative and Innovative project shall register for the same in the subsequent semester and redo the course. In this case, the student shall attend the classes and fulfill the attendance requirements as per clause 7.

If a student 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 re-enroll for the same in a subsequent semester. This applies to both Phase–II and Phase–II of the Project Work for M.E./ M.C.A and Final project work for MBA (2 Years).

If a student fails in the end semester examinations of Phase–I, he/she has to revise the Project Report and submit within 30 days from the date of declaration of the results. If he/she fails in the End semester examination of Phase–II of Project work for M.E./ M.C.A and Final

project work for MBA, he/she shall revise the Project Report and submit within 60 days from the date of declaration of the results. The submission of a revised project report and subsequent vivavoce examination will be considered as reappearance with payment of exam fee. For this purpose the same Internal and External examiners shall reassess the revised report.

7. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION

OF A COURSE

A student who has fulfilled the following conditions (vide clause 7.1 and 7.2) shall be deemed to have satisfied the attendance requirements for appearing for the end semester examination of a particular course.

Ideally every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% attendance, course wise, taking into account the number of periods required for that course, as specified in the curriculum.

If a student secures 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 Principal Competent Authority and Head of the Department concerned, 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 submitthe required documents on joining after the absence to the Head of the Department through the Faculty Advisor.

A student shall normally be permitted to appear for the end semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 - 7.2) and has registered for the examination in those courses of that semester by paying the prescribed fee.

Students who do not satisfy clause 7.1 and 7.2 and who secure less than 65% attendance in a course will not be permitted to write the end semester examination of that course. The student has to register and redo the course when it is offered next as per Clause 6.2. If the course in which the student has been prevented is a professional/ open elective, the student can opt to redo the same course or opt for different professional/ open elective course.

If a student has shortage of attendance in all the registered courses, he/she would not be permitted to move to the higher semester and has to repeat the current semester in the subsequent year.

In the case of reappearance (Arrear) registration for a course, the attendance requirement as mentioned in Clauses 7.1 - 7.3 is not applicable. However, the student has to register for the examination in that course by paying the prescribed fee.

A student who has already appeared for a course in a semester and passed the examination is notentitled to reappear for the same course for improvement of letter grades /marks.

8. 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 (Arrear) 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 of the faculty advisor shall be:

- To inform the students about the various facilities and activities available to enhance the students 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.
- To collect and maintain the academic and co-curricular records of the students.

9. COURSE COMMITTEES

Common Course Committee

A theory course handled by more than one teacher shall have a "Common Course Committee", comprising of all teachers teaching that course. One of the teachers shall be nominated as Course Coordinator by the Head of the Department concerned.

The first meeting of the Common Course Committee shall be held within fifteen days from the date of formation of the committee. The nature and weightage of the continuous assessments shall be decided in the first meeting, within the framework of the Regulations. Two or three subsequent meetings in a semester may be held at suitable intervals.

In addition, the "Common Course Committee" shall meet to ensure uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 10).

Wherever feasible, the common course committee shall prepare a common question paper for the continuous assessment tests also. The question paper for the end semester examination is common

and shall be set by the Course Coordinator, in consultation with all the teachers.

Overall Monitoring Committee

In addition, there shall be an overall monitoring committee for each semester of a programme, which comprises of (i) the Head of the Department (convener), (ii) the Faculty Advisors of the programme and (iii) Course Coordinator. This overall monitoring committee shall meet periodically to discuss academic related matters, progress and status of the students of the semester concerned.

The overall monitoring committee can also invite some of the students for any of the committee meetings if necessary.

10. SYSTEM OF EXAMINATION AND ASSESSMENT PROCEDURE

Performance in each course of study shall be evaluated based on

- i. Continuous internal assessment throughout the semester
- ii. End Semester Examinations (ESE) at the end of the semester.

Each course, both theory / integrated and practical including project work shall be evaluated for a maximum of 100 marks.

For all the End semester examinations, wherever necessary, the internal and external examiners shall be appointed by the Controller of Examinations.

Each course shall be evaluated for a maximum of 100 marks as detailed in **Table 10.1**

Table 10.1 Mark Distribution

S.No.	Category of course	Continuous Internal	End-Semester
1.	Theory Courses	50 Marks	50 Marks
2.	Theory Courses with Laboratory	50 Marks	50 Marks
3.	Laboratory courses	50 Marks	50 Marks
4.	Project Work	50 Marks	50 Marks
5.	All other EEC Courses	100 Marks	
6.	Value added Courses	100 Marks	

There is no evaluation for Audit Courses. However, minimum attendance requirement as per clause 7 shall be satisfied.

Every teacher is required to maintain an "ATTENDANCE AND ASSESSMENT RECORD" for every semester, which consists of attendance marked in each theory / Laboratory/EEC/AC class, the assessment marks and the record of class work (topics covered), separately for each course handled by the teacher. This should be submitted to the Head of the Department periodically (at

least three times in a semester) for checking the syllabus coverage and the records of assessment marks and attendance. The Head of the Department will affix his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody (for five years). The records of attendance and assessment of both current and previous semesters should be available for inspection.

Assessment for Theory Courses

For Theory Courses including mandatory courses out of 100 marks, the maximum marks for Continuous assessment is fixed as 50 and the End Semester Examination carries 50 marks. The End Semester Examination for theory courses including mandatory courses will be of 3 Hours duration and shall normally be conducted for a maximum of 100 marks between November /December during the Odd Semesters and between April/May during the Even Semesters. End semester Examination is mandatory requirement for passing the Course.

To arrive the Continuous Assessment Mark, the guideline to be followed is provided in the Table 10.2.

S.No. **Category Details** Marks Assessment I 1. 20 2. Assessment II 20 3. Employability online Test/Mini Projects/ Scopus publications/ Online MCQs/ 10 studies/Tutorials/Innovative **Projects** idea generation/ Problem solving and Implementation Total 50

Table 10.2 Internal Assessment Mark Distribution

In case a student misses the assessment due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior intimation from the Head of the institution, a Reassessment may be given after getting approval from the Head of the Department through the concerned Faculty advisor.

Assessment for Theory Courses with Laboratory Component

The maximum marks for Internal Assessment shall be 50 in case of theory courses with Laboratory component.(i.e.) Each course shall be evaluated for a maximum of 100 marks as shown in **Table 10.3** below:

 Table 10.3 Internal Assessment Mark Distribution for theory courses

Sl. No	Category of Courses	Assessment for Theory (T)	Assessment for Laboratory (L)	End Semester
1	Theory Integrated with Practical	40 (T) (Two assessments)	10 (L) (One assessment)	50 (T)

Assessment for Laboratory Courses

Each laboratory Courses shall be evaluated for a maximum of 100 marks. Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory class and the student's record shall be maintained. The End Semester Examination will be conducted for 3 hours duration and shall normally be conducted for a maximum of 100 marks by **Examiner other than the concerned laboratory course handling faculty.**

Table 10.4 Mark Distribution for Laboratory Courses

Sl. No	Description	Marks
1	Internal Assessment Average mark awarded for Design and conduct of experiments (10 Marks), observation / coding / implementation (10 Marks), Results (10 Marks), Viva-Voce (10 Marks) and Record (10 Marks) in regular class works, Model Exam.	50
2	End Semester Practical Examinations conducted by Internal Examiner appointed by Controller of Examinations.	50
	Total	100

Examination shall normally be conducted between October and December during the odd semesters and between April and June during the even semesters.

Assessment for Project work

The evaluation of Project Work for Phase I and Phase II for M.E. / M.CA done independently in the respective semesters and marks shall be allotted as per the Weightage given below,

The Project work shall be evaluated for a maximum of 100 marks of which 50 marks will be through internal assessment. The Head of the Department (HOD) shall assign a Project Coordinator and constitute a review committee consisting of supervisor, project coordinator and another faculty member from the Department. There should be three reviews for each phase in the case of M.E. / M.C.A (Phase I and Phase II) and MBA Final project phase to be conducted separately by the

review committee with Internals 50 marks and External 50 marks. The marks are to be distributed as detailed below in Table 10.5.

Table 10.5 Internal Assessment Mark Distribution for Project work

Project Work		E	xternal ((50 M	arks)						
	Revie	w - I	Revi	ew – II	Rev	iew – III		ject iation		- Voc	
Phase – I	Phase – I		sor	tee	sor	tee		larks)	(20 N	Marks	s)
&	Supervisor	Committee	Supervisor	Committee	Supervisor	Committee	al	lal	sor	al	lal
Phase – II	Sup	Con	dnS	Con	dnS	Соп	Internal	External	Supervisor	Internal	External
	5	10	5	10	10	10	15	15	5	5	10

There shall be three assessments (each 100 marks) during the semester by a review committee. The student shall make presentation on the progress made before the committee. The total marks obtained in the three assessments shall be reduced to 50 marks and rounded to the nearest integer.

The Project Report prepared according to approved guidelines and duly signed by the supervisor(s), Project Coordinator and the Head of the Department and shall be submitted to the Head of the Department.

The evaluation of the Project work Phase - I and Phase - II (M.E. / M.CA.) shall be based on the project report submitted in each of the Phase - I and Phase - II semesters respectively and a Viva-Voce Examination by a team consisting of the supervisor, internal examiner (other than the supervisor) and External Examiner. The Project Co-ordinator shall act as Internal Examiner. The External examiner shall be appointed by the Chairman of the respective Faculty from the panel of examiners submitted by the HOD for Phase – I and Phase – II project evaluation in the case of M.E. / M.C.A.

The same evaluation methodology will be followed for MBA (2 Year) programmes duringtheir Final semester Project.

If the student fails to obtain 50% of the internal assessment marks in the Phase–I and Phase–II in the case of M.E. / M.C.A, and Final project review in case of MBA, he / she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.

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 report in the case M.E. / M.C.A. 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 University

or the Re-opening of next semester whichever is earlier.

If a student fails to submit the project report on or before the specified deadline, student is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester. This applies to both Phase–I and Phase–II in the case of M.E. / M.C.A and Final project work in the case of MBA. In case of students of M.E. / M.C.A. not completing Phase - I of Project work successfully, the students can undertake Phase - I again in the subsequent semester. In such cases, the students can enroll for Phase-II, only after successful completion of Phase I.

A copy of the approved project report after the successful completion of viva- voice examinations shall be kept in the library of the college /institution

Assessment for Seminar / Case Study/ Creative and Innovative project

The Seminar / Case study / Creative and Innovative Project shall carry 100 marks and shall be evaluated through continuous assessment only. Every student is expected to present a minimum of one presentation / demonstration in the prescribed semester before the evaluation committee. The three member committee consisting of one coordinator and two members appointed by the Head of the Department will evaluate the seminar and at the end of the semester, the marks can beconsolidated and taken as the final mark. The evaluation shall be based on the seminar paper/ report(40%), presentation / demonstration (40%) and response to the questions asked during presentation / demonstration (20%).

Assessment for Internship

The Industrial Training / Internship shall carry 100 marks and shall be evaluated through continuous assessment only as per Table 10.6. At the end of the Internship, the student shall submit a certificate from the organization where the student has undergone training and a brief report about the training. The evaluation will be made based on this report, presentation and a Viva-Voce Examination conducted internally by a three member Departmental Committee consisting of one coordinator and two members constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to the Controller of Examinations by the Head of the Department.

Table 10.6 Internal Assessment Mark Distribution for Internship

INTERNSHIP EVALUATION					
REPORT PRESENTATION VIVA – VOCE					
40	30	30			

Assessment for Value Added Course

The one/two credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, staff handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based ontheir relative performance.

Assessment for Online Course

On successful completion of each online course, the student has to submit the copy of the certificate to the Head of the Department. The Head of the Department shall form a team of senior faculty members (preferably three) for recommending the credit and the grade that should be awarded to the student by appropriately mapping the score earned by the student. The results can be sent to the Controller of Examinations after the due approval by the Head of the Department. On successful completion of online courses adding to three credits, the student can obtain a waiver from doing either a Professional Elective or an Open Elective.

11. PASSING REQUIREMENTS

The passing requirement for a student in a course is determined based on the marks obtained both in continuous assessment and end semester examinations. A student, who secures not less than 50% of total marks prescribed for the course [continuous Internal Assessment + End semester Examinations] earns a minimum of 6 grade points in a course subject to secure a minimum of 50% marks in the end semester examinations, wherever applicable, shall be declared to have successfully passed the course.

If a student fails to secure a pass in theory courses/ laboratory course in the current semester examination, he/she is allowed to write arrear examinations. The internal assessment marks will be valid only for the next three consecutive semesters. How ever during that period, the student shall have a choice to carry forward the internal assessment marks for reappearance, or can be allowed to redo the internal assessment, if necessary.

If a candidate fails in the Creative innovative project (EEC course), he/she has to revise the Project Report within 30 days from the date of declaration of the results. The revised report is reassessed by subsequent viva-voce examination. It will be considered as reappearance with payment of exam fee. In case a student fails in the resubmission of the project report and the subsequent viva-voce examination, the student shall register for the course in the subsequent semester.

Double valuation is adopted for all the theory courses in order to overcome any subjectivity in single valuation in the end semester examinations. So the provision for revaluation does not arise. The marks whichever is higher, that will be considered for final mark of the student.

If the difference in the total marks awarded is greater than 15 between the first and second valuation, Third valuation will be carried out. Highest marks awarded in the two valuations having difference less than 15 marks, will be the final mark However, if a student wants to appeal for review of the result in any subjects, he / she can submit a challenge review applications to COE office. A committee consisting of the Head of the Department, concerned faculty advisor and a subject expert (Internal / External) nominated by the Head of the Institution will review and give its recommendations to the Controller of Examinations.

12. AWARD OF LETTER GRADES

The performance of a student will be reported using letter grades, each carrying certain points as detailed below:

Range of Total Marks (TM) (Continuous assessment + End Semester Examinations)	Letter Grade	Grade Points
91 ≤ TM ≤ 100	0	10
81 ≤TM ≤ 90	A+	9
71 ≤ TM≤ 80	A	8
61 ≤ TM≤ 70	B+	7
50 ≤ TM≤ 60	В	6
0 ≤ TM< 50	RA	0
Shortage of Attendance	SA	-
Absent	AB	0
Audit Course	AU	-
Course Withdrawal	W	-

[&]quot;RA" denotes Reappearance registration is required for that particular course.

The grades O, A+, A, B+, B obtained for the one/two credit course shall figure in the Mark sheet under the title "Value Added Courses". The other grades RA, SA will not figure in the mark sheet.

[&]quot;SA" denotes shortage of attendance (as per Clause 7) and hence prevented from writing end semester examination.

[&]quot;W" indicates withdrawal from the course.

13. GPA AND CGPA CALCULATION

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

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

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

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 / two credit courses shall not be considered for calculating GPA and CGPA.

If a student studies a greater number of electives (PEC/OEC) than required as per the student student 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 M.E. / M.Tech./MBA Degree provided the student as,

• Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.

- 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 Board of Studies.
- No disciplinary action is pending against the student.
- The award of Degree must have been approved by the Syndicate of 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:

- 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 authorized break of study of one year. Withdrawal from examination 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:

- 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 7.00.

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.

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

16. PROVISION FOR WITHDRAWAL FROM EXAMINATION

A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution, and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANYONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to the Head of the Institution through the HOD with the required documents.

Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN working days before the commencement of the end semester examination in that course or courses and also recommended by the Head of the Department.

Notwithstanding the requirement of mandatory TEN working days" notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

If a student withdraws a course or courses from writing end semester examinations, he/she shall register the same in the subsequent semester and write the end semester examination(s).

Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.

Withdrawal is permitted for the end semester examinations in the final semester only if the period of study of the student concerned does not exceed 3 years for M.E/M.Tech/M.B.A and 6 years for M.B.A integrated with approval of Controller of Examinations

17. BREAK OF STUDY FROM A PROGRAMME

A student is permitted to go on break of study for a fixed period of one year as a single break in the entire course of study.

When a student applies for break of study, the student shall apply to the Head of the Institution in advance. The application duly filled by the student shall be submitted through the Head of the Department.

The students 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 Academic Council in the prescribed format through the Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study, in order that the student may be eligible for the award of the degree (vide clause 14).

In case there is any period of break of study more than the permitted duration of break of study, the student shall be permitted to continue the programme only if the approval is obtained from the Director of Technical Education /University through the Head of Institution before the end of the semester in which the student has taken break of study.

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. PROCEDURE FOR USING SCRIBE

If a candidate is physically handicapped (in case of accidents / ill health) at the time of examination, He / she may be permitted to use a scribe to write the examination. In such case 30 minutes extra time will be permitted for continuous assessment test and 60 minutes for end semester examination. The Scribe shall be a non-engineering student / graduate.

19. 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 institution.

In the event of an act of indiscipline being reported, the Head of the Institution shall constitute a disciplinary committee to enquire into act of indiscipline.

The Head of the Institution shall constitute a disciplinary committee consisting of the Head of the department to which the student concerned belongs, and the Heads of other department to enquire into acts of indiscipline and notify the Head of the institution about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted by the Head of the Institution for taking a final decision.

If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed by the institution from time to time.

20. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Academic council of the college reserves the right to revise or change or amend the regulations, the scheme of examinations, the curriculum and the syllabi from time to time if found necessary

2nd meeting of the Academic Council was held on 02.03.2022 (Wednesday)

AC 02.01 CONSIDERED AND APPROVED CERTAIN AMENDMENTS PG REGULATIONS

PG REGULATIONS

a. Categorization of Courses – Non-Functional Elective courses – Outside the area of specialization - in MBA.

Clause 4.1 in PG R2021 Regulations

RESOLVED to approve Non-functional Elective Courses (NEC) in the curriculum of MBA. It represents the elective courses other than the area of specialization.

b. Phase – I Project work report submission dates.
 Clause 4.4 in PG R2021 Regulations

RESOLVED that the report of Phase-I Project shall be submitted within the last working day of the semester instead of submitting the same within 15 days from the last working day, as per the academic calendar published by the Institution

 c. Online courses – Online courses and courses offered by other departments. Clause 4.5 in PG R2021 Regulations

RESOLVED that a student may be permitted to choose a maximum of twocourses from other PG Programs, with the approval from Head of the Department offering such courses, instead of two electives (Professional or Open Electives) in the curriculum. The student may be permitted to do online courses and other department courses to a maximum of 6 credits.

d. Inclusion of Audit Courses in the curriculum, have to be mentioned in the grade sheet but not considered for CGPA computation.

Clause 4.8 in PG R2021 Regulations

RESOLVED that credits obtained in Audit courses will be mentioned in the grade sheet and shall not be considered for CGPA calculation.

e. Value-added courses have to be mentioned in the grade sheet – not considered for CGPA.

Clause 10.7 PG R2021 Regulations

RESOLVED that the credit earned in value-addedcourses will be mentioned in the grade sheet and shall not be considered for CGPA calculation.

f. Conduct of Academic Audit. Clause 10.9 in PG R2021 Regulations

RESOLVED to have academic audit by academicians from external college after completion of the semester.

g. Passing Requirements – minimum of 45% of marks instead of 50% marks as per new regulations of university.

Clause 11 in PG R2021 Regulations

RESOLVED to follow the existing norms for passing requirements, that is a student should secure minimum of 50% of marks in each course.

RESOLVED to be in line with norms for university departments and to wait until further revisions are made in the university departments regulations.

h. Classification of Degree award – First class Clause 15.2 in PG R2021 Regulations

RESOLVED to follow the existing norms for awarding first class (students should have secured CGPA a not less than 7)

RESOLVED to be in line with norms for university departments and to wait until further revisions are made in the university departments regulations.

Relative Grading for awarding grades for courses. For both UG & PG R2021 Regulations

Resolved to follow the university norms for awarding grades which will be announced in course of time by university.

3rd meeting of the Academic Council was held on 17.02.2023 (Friday)

AC 03.01 CONSIDERED AND APPROVED REVISIONS TO BE CARRIED OUT AS PER THE DIRECTIONS OF ANNA UNIVERSITY IN UG AND PG REGULATIONS

PG REGULATIONS

a. Assessment Procedure in Theory, Theory with Lab, Laboratory, Project work courses – marks allocation for Continuous Internal Assessment and End Semester examinations:

Clause 10 in PG R2021 Regulations

For Theory courses 40:60

For Theory with laboratory component 50:50

For laboratory courses 60 : 40 For Project work 60 : 40

b. Assessment for Theory with Laboratory component

Clause 10.2 in PG R2021 Regulations

L	T	P	C	Internal Assessment 1	Internal Assessment 2	End semester examination
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)

2	0	4	4	Theory	Laboratory	Theory (15%)
4	U	4	4	(25%)	(25%)	Laboratory (35%)

c. Assessment for Laboratory courses

Clause 10.3 in PG R2021 Regulations

Internal Assessment (100 Marks)*					
Evaluation of Laboratory	Test				
Observation, Record					
75	25				

^{*}Internal assessment shall be converted into 60 marks

d. Assessment for Project work

Clause 10.4 in PG R2021 Regulations

	ntinuous As 60 Mar pervisor and Membe	ks d Committee	End semester Examination 40 Marks				
Review I	Review II	Review III	Project Report Evaluation 20 marks	Viva-Voce 20 marks			
10	25	25	External 20	Internal 10	External 10		

e. Relative grading procedure for Theory, Theory with Lab courses.

Clause 12 in PG R2021 Regulations

As per the guidelines of Anna University, relative grading using a software, shall be followed for those students who passed the examination as per the passing requirements. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. For a given course if the student strength is greater than thirty, the relative grading method shall be adopted. However, if the student strength is less than or equal to thirty, then the fixed grading shall be followed with the grade range as specified below

Letter Grade	О	A +	A	B +	В	C	U
Range of total marks	91- 100	81-90	71-80	61-70	56 - 60	50 - 55	< 50
Grade point	10	9	8	7	6	5	0

For those students who have not passed "U" grade (re-appearance) shall be awarded.

- Fixed grading for Laboratory, Project work and pure internal courses.
- Award of Letter Grades Six letter grade system instead of 5 letter grade system.

AC 03.02 CONSIDERED AND APPROVED WEIGHTAGE FOR CO-CURRICULAR ACTIVITIES IN INTERNAL ASSESSMENT AS PER THE DIRECTIONS OF ANNA UNIVERSITY

Clause 10.1 in PG R2021 Regulations

Resolved to approve the weightage for Co-curricular activities as stated below:

The co-curricular performance/ achievements of the student such as Employability Online Test/Mini Projects/ Scopus indexed publications/ Online MCQs/ Case studies/Tutorials/Innovative Projects idea generation/ Problem solving and Implementation etc. shall be considered for 10 marks of the internal assessment.

AC 03.03 CONSIDERED AND APPROVED INTERNAL ASSESSMENT MARKS CONSIDERATION FOR PASSING REQUIREMENT AS PER THE DIRECTIONS OF ANNA UNIVERSITY

Clause 11.2 in PG R2021 Regulations

Resolved to approve the modifications with regard to consideration of internal assessment marks for passing requirement as per the directions of Anna University as given below:

PASSING REQUIREMENTS

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 secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 11.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

AC 03.04 CONSIDERED AND APPROVED THE CHANGES IN CLASSIFICATION OF DEGREE AWARDED AS PER THE DIRECTIONS OF ANNA UNIVERSITY

Clause 15.2 in PG R2021 Regulations

Resolved to approve the following changes in classification of degree awarded as per the directions of Anna University:

Requirement for First class -6.5 CGPA instead of 7 CGPA (with other norms followed as usual)