



Nandha
College of Technology
(Autonomous)
Erode – 638 052

Regulations – 2026

B.E. / B.Tech. Programmes

*Applicable to the students admitted from the
Academic year 2026 – 2027,
with effect from Odd Semester 2026 – 27*



NANDHA COLLEGE OF TECHNOLOGY, ERODE – 638 052

(Autonomous)

REGULATIONS – 2026

BACHELOR OF ENGINEERING (B.E.) and BACHELOR OF TECHNOLOGY (B.Tech.) PROGRAMMES

This Regulation is applicable to the students admitted from the Academic year 2026 – 27, with effect from Odd Semester 2026 – 27.

1 DEFINITIONS AND NOMENCLATURE

In these Regulations, unless otherwise specified:

- i) “University” means affiliating University, ANNA UNIVERSITY, Chennai.
- ii) “College” means Nandha College of Technology.
- iii) “Programme” means Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) Degree programme.
- iv) “Branch” means specialization or discipline of B.E. / B.Tech. Degree programme, like Electrical and Electronics Engineering, Information Technology, etc.
- v) “Course” means a theory / practical / theory cum practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- vi) “Credit” means a numerical value allocated to each course to describe the students’ workload required per week.
- vii) “Grade” means the letter grade assigned to each course based on the marks range specified.
- viii) “Grade point” means a numerical value (0 to 10) allocated based on the grade assigned to each course.
- ix) “Head of the Institution” means Principal of Nandha College of Technology.
- x) “Head of the Department (HOD)” means Head of the Department concerned.
- xi) “Controller of Examinations (COE)” means authorized person who is responsible for all examination related activities of the College.
- xii) “Academic Coordinator” means the Officer of the Institution who is responsible for all the activities in connection with academic regulations, curriculum, syllabus & academic schedule for all the academic programmes and other academic activities, from time-to-time

2 ADMISSION REQUIREMENTS

2.1 First Semester Admission

Candidates seeking admission to the first semester of the eight semesters B.E./ B.Tech. Degree Programme:

They should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu


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with Mathematics, Physics and Chemistry or three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.
(OR)

They should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

They should also satisfy other eligibility conditions as prescribed by the Anna University, Chennai, Directorate of Technical Education, Chennai and Government of Tamil Nadu from time to time.

2.2 Lateral Entry Admission

The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. as per the rules fixed by Government of Tamil Nadu.

(OR)

The candidates who possess the Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the third and fourth semesters as prescribed by the University.

They should also satisfy other eligibility conditions as prescribed by the Anna University, Chennai, Directorate of Technical Education, Chennai and Government of Tamil Nadu from time to time.

3 PROGRAMMES AND BRANCHES OF STUDY

The following programmes and branches of study, approved by Anna University, Chennai, and All India Council for Technical Education, New Delhi, are offered by the College.

Programme	Branch
B.E.	Electronics and Communication Engineering
	Electrical and Electronics Engineering
	Computer Science and Engineering
B.Tech.	Information Technology
	Artificial Intelligence and Data Science

4 STRUCTURE OF THE PROGRAMMES

4.1 CATEGORIZATION OF COURSES

Every B.E. / B.Tech. Programme will have a curriculum with syllabi consisting of theory, theory cum practical and practical courses that shall be categorized as follows:

- i) **Humanities, Social Sciences and Management Courses (HSMC)** include Professional English, Communication skills etc
- ii) **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.
- iii) **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- iv) **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization / branch.
- v) **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization / branch. Professional Elective courses are offered under verticals (specialization groups).
- vi) **Open Elective Courses (OEC)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E./B.Tech. Programmes.
- vii) **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Case Study and Industrial / Practical Training etc.
- viii) **Mandatory courses (MC)** include courses such as Design Thinking & Indian Constitution etc.
- ix) **Value Added Courses (VAC)** are the courses not prescribed in the respective curriculum, but are offered to the students to provide additional value to the programme, for enhancing the knowledge and skills of the student. Completion of these course(s) is / are not mandatory for successful completion of the programme.
- x) **Off Campus Courses (OC)** are the courses that can be undergone by the student, offered by other institutions / firms.

4.2 PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, at the time of admission, in any one of the personality and character development programmes such as National Cadet Corps (NCC), National Service Scheme (NSS), NSO, or Youth Red Cross (YRC), and undergo training, participate in activities, and attend a camp of about seven days. The training shall include classes on hygiene, health awareness, and first aid. Alternatively, activities in science, literature, and arts may also contribute to personality and character development. Therefore, students shall actively organize and participate in Science Club, Literary Forum, or Fine Arts activities, and participate in at least one event

National Cadet Corps (NCC) will have about 20 parades.

National Service Scheme (NSS) will have social service activities in and around the College / Institution.

National Sports Organization (NSO) will have Sports, Games, Drills and Physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around College / Institution.

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The training activities will be normally conducted during weekends, and the camp will be normally during vacation period.

Club activities shall be organized for the development of knowledge, creativity, leadership, and scientific temper through events related to science, literature, arts, sports, astronomy, and achievements of great personalities, celebration of National Science Day, and other educational and cultural programmes.

Literary Club like '**Tamil Ilakkiya Mandram**' shall be formed, which shall organize interesting literary events to propagate good human values, morals and ethics reflected in the literature.

Fine Arts Club which is associated with music, painting and documentary films with social themes shall be encouraged among the students.

Students who enroll and take active participation in anyone of the above activities and participate atleast one event / programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

Indian Constitution Club / Activities shall be formed to create awareness among students about the Constitution of India, fundamental rights, fundamental duties, democratic values, responsibilities of citizens, and related programmes through seminars, debates, quizzes, essay competitions, and the celebrations of Constitution Day in the college.

4.3 INDUCTION PROGRAMME

- The Induction Programme is mandatory for all the students who are pursuing the Undergraduate Programme.
- The list of students who have successfully completed the Induction Programme shall be certified by the Head of the Institution.
- The completion of the Induction Programme shall be printed in the Grade Sheet as "SUCCESSFULLY COMPLETED (SC)".

4.4 NUMBER OF COURSES PER SEMESTER

Each semester curriculum should normally have a maximum of 10 courses. Out of these, a maximum of 4 Laboratory Courses, including Theory Integrated Laboratory Courses. The credits for each Course shall be assigned as specified in Clause 4.5.

4.5 CREDIT ASSIGNMENT

Each course is assigned with the certain number of credits based on the following:

Contact Period Per Week	Credits
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (also for EEC courses like Seminar / Project Work / Case study / etc.)	0.5


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4.6 INDUSTRIAL TRAINING / INTERNSHIP

The students may optionally undergo Industrial Training / Internship at a Research organization / University / Industry (after due approval from the Head of the Institution) continuously for a period of at least two weeks in an organization **during the summer / winter vacation**. The Attendance Certificate mentioning the period of Industrial Training / Internship and signed by the competent authority of the industry, as per the prescribed format shall be submitted to the COE duly attested by the Academic Coordinator. The credits earned through Industrial Training / Internship will be recorded in the Grade Sheet.

If the student earns three credits in Industrial Training / Internship, the student may drop one Professional Elective (only one professional elective can be dropped). To earn three credits, the student shall complete a total of six weeks of Industrial Training / Internship, with a minimum duration of two weeks either in a single organization for six weeks or in three different organizations for two weeks each. However, if the number of credits earned is 1 or 2, then these credits shall not be considered.

Duration of Training / Internship	Credits
2 Weeks*	1
4 Weeks	2
6 Weeks	3

* 1 Week = 30 Internship Hours

EVALUATION PROCEDURE:

The evaluation shall be carried out by a committee comprising three faculty members and one representative from the concerned industry. The committee shall be constituted by the respective Head of the Department, who shall nominate one of the faculty members as the coordinator. Marks shall be awarded to the students based on the following table. In case of pre-occupation of the industry representative for the conduct of Viva-voce Examination, then the marks awarded by the representative shall be obtained through email.

Marks Awarded				
Internship Report	Presentation	Viva Voce (30)		Total (100)
		Industry Representative	3 Members Committee	
40	30	10	20	100

4.7 VALUE ADDED COURSES

- Students may optionally undergo Value Added Courses offered by the Department with the prior approval from the Head of the Institution.
- 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.
- Students shall be allowed to take these courses offered in other Departments also, but with the permission of the Head of the Department

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of the student and the Head of the Department offering the course.

- The details of the syllabus, timetable and faculty shall be sent to the Academic Coordinator after getting approval from the Head of the Institution.
- The value added courses, either a theory course or a combination of theory and laboratory, may be offered with 15 theory periods for 1 credit, where 2 periods of laboratory = 1 period of theory.
- The result(s) of VA Course(s) shall be printed in grade sheet, only upon successful completion of the course. However, the credits earned shall not be considered for computation of CGPA.

4.8 ONLINE COURSES / SELF STUDY COURSES

Students are permitted to optionally enroll and study a maximum of **TWO** off campus courses in physical / online / hybrid mode under each UG programme with the approval of the Academic Coordinator and the Head of the Institution as per the Regulations **subject to a maximum of one course per semester. The successful completion of these courses shall be considered in lieu of professional elective / open elective courses of curriculum. If a student earns three credits, one professional elective or open elective course may be dropped, subject to a maximum of two elective courses during the programme as approved by the Head of the Institution.**

- 4.8.1 Students are permitted to optionally enroll and study these courses through SWAYAM – NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. Then the number of credits and the transfer of credits are based on the procedure explained in Table-A and the Mapping of the marks with the grades is explained in Table-B. The mapping of marks with grades is applicable only if the student passes the course as per the guidelines of NPTEL.

Table-A: Duration of the course and Number of credits

No. of Weeks	No. of Credits
4	1
8	2
12	3
16	4

Table-B: Mapping of Marks scored in NPTEL course and Credits earned

Letter Grade	Marks
S	91-100
A+	81-90
A	71-80
B+	61-70
B	51-60
C+	41-50
C	40-45
U	<40

4.9 INDUSTRIAL VISIT

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

4.10 MANDATORY COURSES

The student shall study the mandatory courses prescribed in the curriculum and it will be mentioned in the Grade Sheet. However, it will not be considered for the computation of CGPA.

4.11 PROJECT WORK / INDUSTRY PROJECT

4.11.1 Project Work

Project work is one of the employability enhancement courses in the curriculum. Under the supervision of a faculty member, the final year student is required to do some innovative work for a societal problem with the knowledge gained after undergoing various theory and laboratory courses during their study. A single student or a group of students (not exceeding 4 per group) shall exhibit both analytical and practical skills through their project work.

Mini Project carries 2 credits, and shall be registered in the 6th semester. Project Phase I carries 3 credits and shall be registered in 7th semester. Project Phase II carries 10 credits and shall be registered in 8th semester.

4.11.2 Industry Project

Industry project is a skill development / employability enhancement course in the curriculum, wherein the student has to undergo industrial training under the industry mentor in a specific domain for one semester continuously. The students shall register for industry practice during 7th & 8th semester instead of Project Phase I & II with the proper approval from Industry, Placement cell and the concerned Head of the Department. This is eligible only for the students who have got internship offer in a company for duration of 10 to 15 weeks.

4.12 MEDIUM OF INSTRUCTION

The medium of instruction is English for all courses, examinations, Seminar presentations and Project Work reports.

4.13 SKILL DEVELOPMENT COURSES

Skill Development Courses (under Employability Enhancement Courses), excluding Mini Project, Project Phase I / Industry Practice, and Project Phase II / Industry Practice, and One Credit Courses shall be offered under three categories, namely Pure Theory Courses, Laboratory-Based Courses, and Skill - Integrated Laboratory Courses, with the prescribed credits. One such



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course shall be offered in each semester from Semester I to Semester IV, as specified in the curriculum.

Category	L	T	P	C
Theory Courses	1	0	0	1
Laboratory Courses	0	0	2	1
Skill Integrated Laboratory Course	1	0	1	1

4.14.1 Evaluation Procedure:

- The evaluation of the above mentioned courses shall be carried out fully through Continuous Internal Assessment mode. The assessment shall be based on continuous evaluation methods such as assignments, class tests, practical performance, skill demonstrations, mini projects, seminars, presentations, record work, attendance, and other academic activities as prescribed by the Academic Coordinator and the Head of the Institutions.
- If a student fails in any of the above one credit courses evaluated through Continuous Internal Assessment, the student shall re-register and complete the course requirements again in the next subsequent semester(s) in which the course is offered, until successful completion. The same assessment pattern and evaluation procedure shall be followed for such students.

5 DURATION OF THE PROGRAMME

- 5.1 Duration of the programme is FOUR years (Eight Semesters) for a student admitted to a programme with qualifications as prescribed in Clause 2.1 of the regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above said duration of 'FOUR' years.
- 5.2 Duration of the programme is THREE years (Six Semesters) for a student admitted directly to second year (Lateral entry) with qualifications as prescribed in Clause 2.2 of the regulations. The student shall successfully complete all the requirements as per the curriculum and the regulations of the programme within the above-said duration of 'THREE' years.
- 5.3 Above mentioned period in Clause 5.1 and Clause 5.2 shall be extended for 'ONE' more year to a student, who is permitted to avail the authorized break of study or opt for dropping of courses, as per the regulations.
- 5.4 'Programme Completion' means that a student shall undergo all the courses as prescribed in the respective curriculum and become eligible for appearing in the end semester examination of all the courses within the period as given in Clauses [5.1, 5.2 and 5.3]
- 5.5 After programme completion if there is any arrear course(s), a student shall be permitted to successfully complete the same, within 'SEVEN' years (students admitted under Clause 2.1) and 'SIX' years (students admitted under Clause 2.2). This maximum duration for successful completion shall be reckoned from the commencement of first semester of the programme.
- 5.6 In case of a student prevented from appearing in the end semester examination in all the courses of a semester due to shortage of attendance, the

period of prevention shall be treated as a break in the programme. In such a case, total duration for completing the programme including all such prevention periods shall not exceed the above-said 'SEVEN' years (students admitted under Clause 2.1) and 'SIX' years (students admitted under Clause 2.2).

6 COURSE REGISTRATION

- 6.1** 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 (vide clause 6.2)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

The registration details of the student shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

The courses that a student registers in a particular semester may include

- i) Courses of the current semester
- ii) Courses dropped in the lower semesters

The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (U) and Withdrawal courses (WC) registered by the student for the appearance of Examination.

6.2 FLEXIBILITY TO ADD OR DROP COURSES

- 6.2.1** 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.

- 6.2.2** From the second to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

6.3 CHOICE OF PROFESSIONAL ELECTIVE COURSES

The Professional Elective Courses are listed in the Curriculum in Table format as verticals (Specialization groups). A student can choose all the Professional Elective Courses either from one of the verticals or a combination of courses from all verticals in a semester. Students are permitted to enroll more than one elective course from the same vertical in a semester. In the subsequent semesters students are permitted to enroll one more course in a row, provided if he/she has cleared the earlier course of the same row. For a professional elective course and open elective course, minimum number of students enrolment permitted shall be 10.

7 ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

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

The students are expected to attend all the classes without fail. However, in

order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 80% of the classes. Therefore, he/she shall secure not less than 80% (after rounding off to the nearest integer) of overall attendance.

Overall percentage of attendance in a semester for a student is calculated from,

$$\% \text{ of Overall Attendance} = \frac{\text{Actual No. of periods attended in all registered courses (AP)}}{\text{Total No. of periods conducted in all registered courses (TP)}} \times 100$$

7.2 The student shall be prevented from appearing in the end semester examination for all courses in a semester, if the overall attendance secured by a student is less than 80%. Such prevented student shall not be permitted to go to next semester. Importantly, such prevented student shall be permitted to rejoin the programme in the semester of prevention, during only in the next academic year and undergo all the courses. If the academic regulation is changed, and such student shall undergo additional courses, if any for completion of the programme.

7.3 However, a student who secures overall attendance between 70% and 79% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate attested by the Head of the Department. The same shall be forwarded to the Controller of Examinations with the approval of the Head of the Institution.

In this case, the overall percentage of attendance in all the registered courses in a semester is calculated from clause 7.1 of this regulation with inclusion of 'number of periods during the medical emergency (MEP)' as below;

$$\% \text{ of Overall Attendance} = \frac{\text{AP}}{(\text{TP} - \text{MEP})} \times 100$$

8 CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the course-instructors of the class. He / She will be appointed by the HOD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HOD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

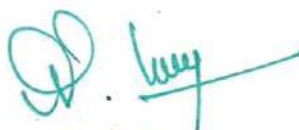
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9 CLASS COMMITTEE

- 9.1 Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson, who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include:
- Solving problems experienced by students in the class room and in the laboratories.
 - Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7).
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
 - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students.
- 9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.
- 9.3 The class committee shall be constituted within the first week of each semester.
- 9.4 Atleast 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses.
- 9.5 The chairperson of the class committee may invite the class adviser(s) and the Head of the Department to the class committee meeting.
- 9.6 The Head of the Institution may participate in any class committee meeting of the institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.



- 9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation. During these meetings the student members representing the entire class shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10 COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers are teaching the common course belong to the single department or to several Departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever its feasible, the Course Committee may also prepare a common question paper for the Continuous Internal Assessment Test(s).

11 SYSTEM OF EXAMINATION

- 11.1 Performance in each course of study shall be evaluated based on
- i) Continuous Internal Assessment throughout the semester and
 - ii) End Semester Examination at the end of the semester.
- 11.2 All the Courses shall be evaluated for a maximum of 100 marks.
- 11.2.1 For all theory courses, the Continuous Internal Assessment will carry 40 marks while the End Semester Examination will carry 60 marks.
- 11.2.2 For all theory courses with laboratory component, the Continuous Internal Assessment will carry 50 marks while the End Semester Examination will carry 50 marks.
- 11.2.3 For all laboratory courses, the Continuous Internal Assessment will carry 60 marks while the End Semester Examination will carry 40 marks.
- 11.2.4 The Continuous Internal Assessment for the project work will carry 60 marks while the End Semester Examination will carry 40marks.
- 11.3 Skill Development Courses under EEC (except Mini Project, Project Phase I / Industry Practice, Project Phase II / Industry Practice) and One Credit Courses, as mentioned in Clause 4.14, shall carry 100 marks and shall only be evaluated through Continuous Internal Assessment mode and have no End Semester Examinations.

- 11.4 The End Semester Examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and January during the odd semesters and between April and June during the even semesters.
- 11.5 The End Semester Examination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an External Examiner and an Internal Examiner, followed by a Viva-voce Examination conducted separately for each student by a committee consisting of an External Examiner, the Supervisor of the Project Group and an Internal Examiner.
- 11.6 For the End Semester Examination of practical courses including Project Work, the Internal and External Examiners shall be appointed by the Controller of Examinations from the Panel of Experts recommended by the Chairman, BOS with the approval of the Head of the Institution.

12 PROCEDURE FOR AWARDING MARKS FOR CONTINUOUS INTERNAL ASSESSMENT

12.1 THEORY COURSES

For theory courses specified in the curriculum, out of 100 marks, the maximum mark for Continuous Internal Assessment is 40 and the Semester End Examinations are 60.

Particulars	Syllabus	Marks Conducted	Weightage
Continous Assessment Test 1 (CAT-1)	2.5 Units	100 Marks	14
Continous Assessment Test 2 (CAT-2)	2.5 Units	100 Marks	14
Activities	-	100/150 Marks	12
Total Weightage			40

The Continuous Internal Assessment consists of three components as above. CAT-1 and CAT-2 are each conducted for 100 marks and contributes 14 marks each of the Continuous Internal Assessment. The activities are conducted for a maximum of 50 marks. The marks obtained in the activities are converted to a weightage of 12 marks for the Continuous Internal Assessment. The combined weightage of CAT-I, CAT-II, and Activities constitutes the Continuous Internal Assessment, carrying a maximum of 40 marks.

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Evaluation of Activities

The activities are assessed based on the Performance Assessment Test (PAT) conducted on the following assessment options.

Category		Activity	Maximum Marks	Weightage	Total Marks
Option 1	Category 1	Assignment / Technical Presentation / Mind Map / Coding Assessment / Case Study / Language Proficiency Assessment * (Choose any Two)	Each Activity Carries 50 Marks (Total 100 Marks)	Each Activity Carries 3 Marks (Total 6)	12
	Category 2	Quiz / Course Relevant Field Visits / Listening and Analytical Skills Assessment * (Choose any One)	50	6	
OR					
Option 2	Category 3	Mini Projects	100	12	12

* Assessment applicable for language - oriented subjects like english etc.,

12.2 LABORATORY COURSES

The maximum marks for Continuous Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be atleast one test. The criteria for arriving at the Continuous Internal Assessment marks of 60 is as follows:

75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Continuous Internal Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	75
Model Practical	25

*Continuous Internal Assessment marks shall be converted into 60 marks

12.3 THEORY COURSES WITH LABORATORY COMPONENT / LABORATORY COURSES WITH THEORY COMPONENT

Weight age of Internal Assessment and End Semester Examination marks will be 50% each. The distribution of marks for the Theory and Laboratory components in the Continuous Internal Assessments and End Semester Examination for different types of courses are provided in the table:

L	T	P	C	Continuous Internal Assessment - 1	Continuous Internal Assessment - 2	End Semester Examination
1	0	4	3	Theory (10%)	Theory (10%) Lab (30%)	Theory (20%) Lab (30%)
2	0	4	4			
1	0	2	2	Theory (10%)	Theory (10%) Lab (20%) PAT (10%)	Theory (25%) Lab (25%)
2	0	2	3			
3	0	2	4			

* The weighted average shall be converted into 50 marks for Continuous Internal Assessment.

12.4 PROJECT WORK / INDUSTRY PROJECT

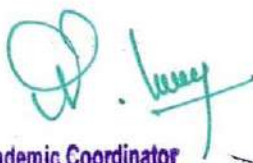
The student shall register for Project Work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The student is also permitted to undergo a semester long Internship in an Industry / Academic / Research Institution.

12.4.1 Project Work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.

12.4.2 The Project Work carried out in an Industry / an Academic / Research Institution shall be jointly supervised. The Project Work shall be jointly supervised by a Supervisor of the Department and an Expert from the Organization as a Joint Supervisor and the student shall be instructed to meet the Supervisor periodically and to attend the Review Committee meetings for evaluating the progress. The Review Meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.

12.4.3 The Head of the Institutions shall constitute a Review Committee for Project Work for each programme. The Review Committee consists of a Supervisor, an Expert from the Department and a Project Coordinator from the Department. If the Project Coordinator / Expert Member happen to be the Supervisor, then an alternate member shall be nominated. In the case of Industrial Project / Internship, the Review Committee shall consist of the Supervisor, the Coordinator from the Industry and the Project Coordinator from the Department.

There shall be three reviews conducted by the Review Committee. The student shall make a presentation on the progress made by him/her before the committee. The total marks obtained in the three reviews shall be reduced for 60 marks and rounded to the nearest integer (as per the scheme given in 12.4.4).



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- 12.4.4 The Project Report shall carry a maximum of 10 marks. The Project Report shall be submitted as per the approved guidelines as given by the Academic Coordinator. Same marks shall be awarded to every student within the project group for the Project Report. The Viva-voce Examination shall carry 30 marks. Marks awarded to each student of the project group are based on the individual performance in the Viva-voce Examination.

Continuous Internal Assessment 60 Marks			End Semester Examinations 40 Marks			
Review-I	Review-II	Review-III	Project Report	Viva - Voce Examination		
			External	External	Internal	Supervisor
20	20	20	10	10	10	10

- 12.4.5 In the case of Industrial Projects, the same evaluation procedure and criteria specified in clause 12.4.4 and the corresponding evaluation table shall be followed. However, the marks allotted for Supervisor Assessment shall be awarded by the Industry Coordinator/Mentor.
- 12.4.6 The last date for submission of the Project Report is on the last working day of the semester. If a student fails to submit the Project Report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.
- 12.4.7 Students shall also under take a start-up activity for the development of products as part of project work. If the outcome of a start-up is a fully developed product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start-up report, which includes the concepts and the process flow of the developed product, publications and patents, if any. The evaluation of the start-up report is as per the clause 12.4.4.

12.5 ASSESSMENT FOR VALUE ADDED COURSE

The Value Added Course shall carry 100 marks and shall only be evaluated through Continuous Internal Assessments only. Two Assessments shall be conducted during the semester by the course handling faculty (Industry / Institutional). The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, Faculty handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The list of students along with the marks earned shall be forwarded to the Controller of Examinations at least one week before the last working day of the respective Semester.

Passing Requirement

The passing requirement for Value Added Courses shall be 50% of the marks prescribed for the course (Continuous Internal Assessments only).



12.6 Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

12.7 ATTENDANCE RECORD

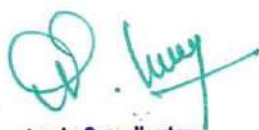
Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD', which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department 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 Department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any Inspection Team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

12.8 CONDUCT OF ACADEMIC AUDIT

- All faculty members shall strive to improve the performance of students by assessing their performance in their respective Continuous Internal Assessment components and provide appropriate individual feedback to students for improvement. The Head of the Department shall nominate two senior Faculty Members as Department's Internal Academic Auditors. The Internal Academic Auditors shall assess the academic activities of the Department twice in a semester at appropriate intervals and submit the report to the Head of the Institution through the head of the department.
- Similarly, the performance of the students in their End-Semester Examinations shall be evaluated after the publication of the result, in the Department meeting, and appropriate feedback shall be given to the students by their respective Faculty mentors.
- The Head of the Department shall arrange to conduct another Academic Audit once every year for all the courses conducted through an external expert, recommended by the Head of the Department and approved by the Head of the Institution.
- All Academic Audits shall cover verification of all the academic records pertaining to the regulation, attendance and assessment, attainment of course outcomes (and programme outcomes where applicable), and assessment of the overall teaching-learning process. Appropriate action shall be taken based on the audit reports, for improving the academic process. Academic documents should be available with the Faculty member / Department for 5 years.

13 REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS

A student shall normally be permitted to appear for the End Semester Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (as per clause 7).



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Further, Examination Registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the End Semester Examinations failing which, the student will not be permitted to move to the higher semester.

A student who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

14 PASSING REQUIREMENTS

14.1 A student who secures not less than 50% of total marks prescribed for the course [Continuous Internal Assessment + End semester Examinations] with a minimum of 45% of the marks prescribed for the End Semester Examination, shall be declared to have passed the course and acquired the relevant number of credits.

14.2 If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the End Semester Examination in the subsequent semester. In such case, the Continuous 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 14.1, 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.

14.3 If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such case, the Continuous Internal Assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the End Semester Examinations alone.

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the Continuous Assessment marks, fulfill the attendance requirements as per clause 7 and appear for the End Semester Examination.

14.4 If a student has submitted the project report but absent for the End Semester Examination of project work, the student is deemed to be failed. In this case and also if a student attends and fails in the End Semester Examination of Project work of B.E. / B.Tech, he/she shall attend the End Semester Examination again within 30 days from the date of declaration of the results. The subsequent Viva-voce Examination will be considered as reappearance with payment of exam fee. In case, the student fails in the subsequent Viva-voce Examination also, the student shall redo the course again, when offered next.

- 14.5 The passing requirement for courses evaluated fully through Continuous Internal Assessment (Continuous Assessment) only, such as Skill Development Courses except Project Work, shall be 50% of the total marks prescribed. Students who fail in such courses shall repeat the assessment process in the subsequent semesters.

15 AWARD OF LETTER GRADES

- 15.1 The grades and corresponding grade points are given in Table 15.1:

Table 15.1

Grade	Description	Grade Points
S	Outstanding	10
A+	Excellent	9
A	Very Good	8
B+	Good	7
B	Above Average	6.5
C+	Average	6
C	Satisfactory	5
U	Re-appearance	0
SA	Shortage of Attendance	0
WC	Withdrawal of Course	0

- 15.2 Absolute Grading System shall be followed for all categories of courses. Range of marks for corresponding grades is presented in Table 15.2.

Table 15.2

S	A+	A	B+	B	C+	C	U
91 – 100	81 – 90	71 – 80	66 – 70	61 – 65	56 – 60	50 – 55	< 50

- 15.3 For NPTEL / SWAYAM courses alone, the corresponding range of marks for each grade is presented in Table 15.3.

Table 15.3

S	A+	A	B+	B	C+	C	U
91 – 100	81 – 90	71 – 80	61 – 70	51 – 60	46 – 50	40 – 45	< 40

- 15.4 For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory Course will be mentioned in the Grade Sheet.

15.5 Calculation of Grade Point Average (GPA) / Cumulative Grade Point Average (CGPA)

- Two parameters, Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are used to evaluate the academic performance of the student.
- The GPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester. For example, if a student passes five courses (Theory / Laboratory / Project / Seminar etc.) in a semester with credits C1, C2, C3, C4 and C5 and the students' grade points in these courses are g1, g2, g3, g4 and g5 respectively, then GPA of the student is calculated as:

$$\text{GPA} = \frac{(C1 \times g1) + (C2 \times g2) + (C3 \times g3) + (C4 \times g4) + (C5 \times g5)}{(C1 + C2 + C3 + C4 + C5)}$$

- At the end of each semester, the student is given with a semester wise grade sheet. This is a consolidated list of courses registered and grades obtained in that particular semester along with the appropriate GPA calculation.
- The CGPA indicates the overall academic performance of a student and is computed to two decimal places in the same manner as the GPA, except that all the courses registered up to and including the latest completed semester. Grades obtained after successful completion of additional courses that are not mandatory for minimum requirement for award of degree, shall not be considered for computation of CGPA. However, results of these courses will be printed only in the grade sheet.
- If the student is absent for the registered course in the End Semester Examination(s) or Viva-voce Examinations or absent for the assessments in case of courses evaluated only through Continuous Internal Assessments, this absence shall be considered as an appearance for the purpose of classification of Degree.
- If a student opts to drop PE Courses(s) as per the Clause 10.6, this appearance in the particular PE Course shall be considered as an appearance for the purpose of the classification of Degree.
- After successful completion of the courses as required for the award of degree, as per the curriculum, a consolidated grade sheet shall be printed and issued to all the students through the respective Head of the Institute.
- The percentage of marks shall be printed in the consolidated grade sheet from the CGPA earned using, % of Marks = CGPA × 10.

16 AWARD OF DEGREE

16.1 A student is deemed to have completed the requirements for the award of degree, if the student has

- Successfully completed all courses as per the respective curriculum of the discipline satisfying the minimum credit requirement and other academic requirements for the programme.
- No pending disciplinary action against him/her.

16.2 A student who fulfils the following criteria shall be declared to have successfully completed the Degree programme as 'First class with Distinction'.

16.2.1 Should have passed the Examination of all the courses prescribed in curriculum of the respective programme in the 'FIRST APPEARANCE' itself, within the prescribed duration as per Clauses 5.1, 5.2, and 5.3 of this regulations.

16.2.2 Should have secured a CGPA of at least 8.50.

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- 16.2.3 Should not have been prevented from appearing for any End Semester Examination.
- 16.3 A student who fulfils the following criteria shall be declared to have successfully completed the Degree programme as 'First Class'.
- 16.3.1 Should have passed the Examination of all the courses within the prescribed duration as per Clauses 5.1, 5.2, and 5.3 of this regulations.
- 16.3.2 Should have secured a CGPA of at least 6.50.
- 16.3.3 Should not have been prevented from appearing for the End Semester Examination.
- 16.4 A student who fulfils the following criteria shall be declared to have successfully completed the Degree programme as 'Second Class'.
- 16.4.1 Should have passed the Examination of all the courses within the prescribed duration as per Clauses 5.1, 5.2, and 5.3 of this regulations.
- 16.4.2 Has secured a CGPA below 6.50.
- 16.4.3 Should have passed the Examination of all the courses within the prescribed duration as per Clauses 5.4, and 5.5 of this regulations.

16.5 PHOTOCOPY / REVALUATION

A student can apply for photocopy of his/her Semester Examination answer Script in a theory course, as per the guidelines of the COE, on payment of a prescribed fee through proper application to the Controller of Examinations. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the student concerned. Revaluation is not permitted for practical courses and Skill Development courses and the Courses which are evaluated only based Continuous Internal Assessment.

16.6 REVIEW

Students not satisfied with Revaluation results, 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 the Controller of Examinations through the Head of the Department.

17 PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATIONS

- 17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the 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 COE through the Head of the Institutions with the required documents.

- 17.2 Such withdrawal shall be permitted only once during the entire period of study
- 17.3 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course/courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 7) and earned Continuous Assessment marks.
- 17.3.1 Notwithstanding the requirement of mandatory 10 days, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 17.4 In case of withdrawal from course/courses, the courses will figure both in the Grade Sheet as well as in the Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for **First Class with Distinction**.
- 17.5 If a student withdraws from writing End Semester Examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the End Semester Examination(s).
- 17.6 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only if the student has submitted the project report before the deadline. However, the student may appear for the Viva-voce Examination within 60 days after the declaration of results for Project Work and the same shall not be considered as Reappearance.
- 17.7 Withdrawal is permitted for the End Semester Examinations in the final semester, as per clause 16.2.
- 17.8 Withdrawal from the End semester examination is NOT applicable to arrear courses of previous semesters.
- 18 PROVISION FOR AUTHORISED BREAK OF STUDY**
- 18.1 A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.
- 18.2 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 student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case.
- 18.3 Students, who are granted 'Break of Study', shall be allowed to appear for the End Semester Arrear Examinations for backlog courses, if any, during the period of the Break of Study.
- 18.4 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 Head of the Institution in the prescribed

format through Head of the Department 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.

- 18.4.1 Total number of credits to be earned by the student shall be more than or equal to the total number of credits prescribed in the curriculum in force. If the credits assigned for L T P of the courses are not same in two Regulations under consideration, then equivalence shall be arrived as per the credit assignment followed in the Regulations in force.
- 18.5 The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).
- 18.6 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 5.5 irrespective of the period of break of study in order that he/she may be eligible for the award of the Degree.
- 18.7 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1).
- 18.8 If a student in Full Time mode wants to take up a job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall join the job / start-up / entrepreneurship only after getting approval from the Head of the Institution with due proof to that effect.
- 18.9 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.

19 DISCIPLINE

- 19.1 Every student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time.
- 19.2 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. In case of any serious disciplinary action which leads to suspension or dismissal, then a special committee shall be constituted by the Head of the Institution for taking the final decision.
- 19.3 If a student indulges in malpractice in any of the internal / End Semester Examination he/she shall be liable for punitive action as prescribed by the College / University from time to time.

20 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

Notwithstanding anything contained in this manual, the Nandha College of Technology through the Academic council of the College, reserves the right to modify/amend without notice, the Regulations, Curricula, Syllabi, Scheme of Examinations, procedures, requirements, and rules pertaining to its B.E. / B.Tech. programmes.



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