

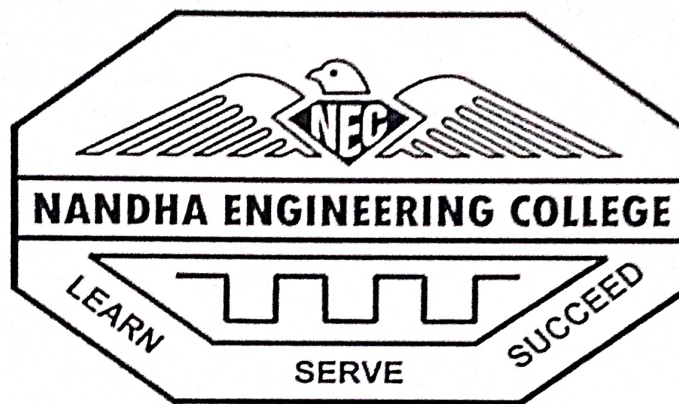
NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

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

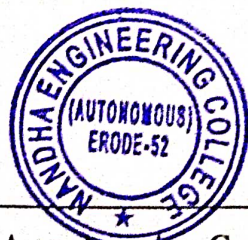
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Amendments [3] in RULES AND REGULATIONS – 2017 [R17] for UG Programmes

(Applicable to the batch 2021-25 (regular) and 2022-25 (lateral) students)



N. Jayaraman

PRINCIPAL

Nandha Engineering College
(Autonomous)

Erode - 638 052.

Approved in 10th Academic Council Meeting, 20.08.2022
[R17 Amendments-3]

AMENDMENTS IN RULES AND REGULATIONS [Amendments R17]

FOR B.E./ B.TECH. DEGREE PROGRAMME

Existing	Revised
<p>Clause 4.0 Programme of Study: B.E., Degree Agriculture Engineering (AG) Biomedical Engineering (BM) Civil Engineering (CE) Computer Science and Engineering (CS) Electronics and Communication Engineering (EC) Electrical and Electronics Engineering (EE) Electronics and Instrumentation Engineering (EI) Mechanical Engineering (ME)</p> <p>B.Tech. Degree Chemical Engineering (CH) Information Technology (IT)</p>	<p>Clause 4.0 Programme of Study: B.E., Degree Biomedical Engineering (BM) Civil Engineering (CE) Computer Science and Engineering (CS) Electronics and Communication Engineering (EC) Electrical and Electronics Engineering (EE) Mechanical Engineering (ME)</p> <p>B.Tech. Degree Agricultural Engineering (AG) Artificial Intelligence and Data Science (AD) Chemical Engineering (CH) Information Technology (IT)</p>

Clause 9.2 Each course shall be evaluated for a maximum of 100 marks as illustrated below.				Clause 9.2 Each course shall be evaluated for a maximum of 100 marks as illustrated below.			
Category of Course	(CA) marks	(ES) marks	Total Marks	Category of Course	(CA) marks	(ES) marks	Total Marks
Theory Courses	40	60	100	Theory Courses	40	60	100
Laboratory Courses	50	50	100	Laboratory Courses	60	40	100
Embedded Courses				Embedded Courses	40	60	100
				Embedded Courses	50	50	100
Project work				Project work	40	60	100
Employability Enhancement Courses (EEC), One credit Courses, Mini Project, Human Excellence courses, etc.	100	-	100	Employability Enhancement Courses (EEC), One Credit Courses, Mini Project, Human Excellence courses, etc.	100	-	100

NB: CA: Continuous Assessment, ES: End Semester

Procedure for Assessment & Awarding Marks Clause 10.1 The assessment shall be done as per the procedure laid down below:			Procedure for Assessment & Awarding Marks Clause 10.1 The assessment shall be done as per the procedure laid down below:		
Theory Course			Theory Course		
Continuous Assessment	40 Marks		Continuous Assessment	40 Marks	
End Semester Examination	60 Marks		End Semester Examination	60 Marks	
Total		100 Marks	Total		100 Marks
Continuous Assessment Scheme for Theory Course			Continuous Assessment Scheme for Theory Course (40%)		
Component		Marks	Component		Marks
• Two CAT exams. (Duration 1 hour, 30 minutes)		Written test: 2 x 15	30	Two CAT exams.	2 x 60
Online: 2 tests		2 x 2.5	5	Two Online tests	2 x 15
Assignments/Tutorials/Quiz/ -2		2 x 2.5	5	Two assignments (Team Assignment/Individual Assignment/Case study)	2 x 20
Continuous Assessment Marks		-	40	One seminar	1 x 10
			Continuous Assessment Marks		200* (converted to 40)
End Semester Examination Scheme for Theory Course			End Semester Examination Scheme for Theory Course (60%)		
Examination duration : 3 hours Max. marks : 100 → Reduced to 60 marks			Examination duration : 3 hours Max. marks : 100 → Reduced to 60 marks		

Practical Course			Practical Course		
Continuous Assessment	50 Marks		Continuous Assessment	60 Marks	
End Semester Examination	50 Marks		End Semester Examination	40 Marks	
		100 Marks			100 Marks
Continuous Assessment Scheme for Practical Course			Continuous Assessment Scheme for Practical Course (60%)		
			75 % weightage for successful completion of all experiments done in the Laboratory.	25% weightage for the test	
Components		Marks	Components		Marks
(a) Experiments: <ul style="list-style-type: none"> • Preparation -10 • Conduct of Experiments - 30 • Observation& Results -30 • Record -10 • Viva voce -20 		100*	Evaluation of laboratory Experiments <ul style="list-style-type: none"> • Preparation -10 • Conduct of Experiments - 30 • Observation& Results -30 • Record -10 • Viva voce -20 		100* (converted to 75)
(b) CAT for Lab: 2 (exams.) x 50 (marks)		100**	Model Practical Examination I		50* (converted to 12.5)
Add (a) + (b) and reduce the total marks to 50 marks.			Model Practical Examination II		50* (converted to 12.5)

Continuous Assessment Marks	50	Continuous Assessment Marks	100* (converted to 60)
End Semester Examination Scheme for Practical Course		End Semester Examination Scheme for Practical Course (40%)	
Examination duration : 3 hours Max. marks : 100 → Reduced to 50 marks		Examination duration : 3 hours Max. marks : 100 → Reduced to 40 marks	

Embedded Course		Embedded Course	
(a) Components of Embedded Course: Theory + Project		(a) Components of Embedded Course: Theory + Project (PBL) = 100 marks	
		Continuous Assessment	40 Marks
		End Semester Examination	60 Marks
		100 Marks	
Theory (50%)		Continuous Assessment Scheme (40%)	
40 % weightage for CA 20 marks	60 % weightage for End semester examination 30 marks	Two CAT exams	2 x 60 marks
<ul style="list-style-type: none"> • Two CAT exams., Duration 1 hour, 30 minutes) 1 x 15 = 15 marks • Assignment (one no.): 1 x 5 = 5 marks 	End semester Examinations will be conducted for 100 marks & reduced to 30 marks	Project review 1	20 marks
		Project review 2	20 marks
		Project report	20 marks
		Online test	20 marks
		Continuous Assessment Marks	200* (converted to 40)
		End Semester Examination Scheme (60%)	
Examination duration : 3 hours Max. marks : 100 → Reduced to 60 marks			
Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11.5).		Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11.5).	
Project (50%)			
50 % weightage for CA – 25 marks	50 % weightage for End semester exam – 25 marks		
<ul style="list-style-type: none"> • Review-1 :10 marks • Review-2 :10 marks • Report : 5 marks 	End semester Examinations will be conducted for 100 marks & reduced to 25 marks		

Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11.5).			
(b) Components of Embedded Course: Theory + Laboratory		(b) Components of Embedded Course: Theory + Laboratory	
		Continuous Assessment	50 Marks
		End Semester Examination	50 Marks
			100 Marks
Theory (50%)		Continuous Assessment : 50% 40% weightage for Theory + 60% weight for Laboratory	
40 % weightage for CA (20 marks)	60 % weightage for End semester exam (30 marks)	Theory (40%)	
<ul style="list-style-type: none"> • Two CAT exams. , Duration 1 hour, 30 minutes (Best one will be considered) 1 x 15 = 15 marks • Assignment (one no.): 1 x 5 = 5 marks 	End semester Examinations will be conducted for 100 marks & reduced to 30 marks	Two CAT exams.	2 x 60
		Two Online tests	2 x 15
		Two Assignments (Team Assignment/ Individual Assignment/ Case study)	2 x 20
		One Seminar	1 x 10
		Continuous Assessment Marks	200* (converted to 40)
Laboratory (50%)		Laboratory (60%)	
50 % weightage for CA (25 marks)	50 % weightage for End semester exam (25 marks)	Components	Marks
Similar to lab course	End semester Examinations will be conducted for 100 marks & reduced to 25 marks	Evaluation of lab experiments <ul style="list-style-type: none"> • Preparation -10 • Conduct of Experiments - 30 • Observation& Results -30 • Record -10 • Viva voce -20 	100* (converted to 75)
		Model Practical Examination I	50* (converted to 12.5)
		Model Practical Examination II	50* (converted to 12.5)
		Laboratory Continuous Assessment Marks	100* (converted to 60)
		End Semester Examination Scheme (50%) Examination duration : 3 hours Max. marks : 100 → Reduced to 50 marks	
Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11.5).		Passing Requirement: Secure not less than 50% of total marks (including continuous assessment and end semester examination) subject to minimum of 45% of marks prescribed for the end semester examination (Clause 11.5).	

Project Work (Marks: 100) [Mini project/ Design project/ Project Phase-1 / Phase-2]				Project Work (Marks: 100) [Mini project/ Design project/ Project Phase-1 / Phase-2]		
Project work will be evaluated by continuous assessment and end semester assessment.				Project work will be evaluated by continuous assessment (40) and end semester assessment (60).		
Continuous Assessment - 50 Marks				Continuous Assessment - 40 Marks		
	Guide	Committee	Total		Marks	
0 th Review	10	10	20	Review - 1	10	
1 st Review	20	20	40	Review - 2	15	
2 nd Review	20	20	40	Review - 3	15	
			100		40	
End Semester Assessment - 50 Marks				End Semester Assessment - 60 Marks		
Internal Examiner			40	Project Report	Internal Examiner	10
External Examiner			40		External Examiner	10
Report			20	Viva -voce	Internal Examiner	10
					External Examiner	20
Total			100		Supervisor Examiner	10
				60		
The Head of the Department shall constitute a review committee consists of Head of the Department, Guide and a senior faculty member. There shall be three reviews during the semester by the review committee. The students shall make presentation on the progress made before the committee.				No change. Same procedure shall be followed		
<p>Clause 16.1 Award of Grade</p> <p>After a student has satisfied the passing requirements prescribed in clause 11, the student shall be placed in one of the grades. All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each subject as detailed below:</p>				<p>Clause 16.1 Award of Grade</p> <p>After a student has satisfied the passing requirements prescribed in clause 11, the student shall be placed in one of the grades. All assessments of a course will be done on relative grading principle. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each subject as detailed below. For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. However, if the students' strength is less than 30 then the fixed grading shall be followed.</p>		

Letter Grade	Grade Points	Range of Percentage of Total Marks	Letter Grade	Grade Points	Range of Percentage of Total Marks
O (Outstanding)	10	90 to 100	O (Outstanding)	10	91 to 100
A + (Excellent)	9	80 to 89	A + (Excellent)	9	81 to 90
A (Very Good)	8	70 to 79	A (Very Good)	8	71 to 80
B + (Good)	7	60 to 69	B + (Good)	7	61 to 70
B (Above average)	6	50 to 59	B (Average)	6	56 to 60
RA (Reappearance Registration)	0	0 to 49	C (Satisfactory)	5	50 to 55
SA (Shortage of Attendance)	0	-	U (Reappearance)	0	-
W (Withdrawal)	0	-	SA (Shortage of Attendance)	-	-
			WD (Withdrawal)	-	
A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B".			A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B", "C".		
Clause 18.2 FIRST CLASS A student who satisfies the following conditions shall be declared to have passed the examination in First class: <ul style="list-style-type: none"> ✓ Should have passed the examination in all the courses of all eight semesters within Six years (all six semesters within five years in case of lateral entry). ✓ One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of six years (five years in the case of lateral entry) for award of First Class. ✓ Should have secured a CGPA of not less than 7.00 			Clause 18.2 FIRST CLASS A student who satisfies the following conditions shall be declared to have passed the examination in First class: <ul style="list-style-type: none"> ✓ Should have passed the examination in all the courses of all eight semesters within five years (all six semesters within four years in case of lateral entry). ✓ One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (four years in the case of lateral entry) for award of First Class. ✓ Should have secured a CGPA of not less than 6.50 		
Clause 18.3 SECOND CLASS All other students (not covered in clauses 18.1 and 18.2) who qualify for the award of the degree shall be declared to have passed the examination in Second Class.			Clause 18.3 SECOND CLASS No change.		

New Clause	<p>Clause 18.5 B.E / B.Tech (Hons) Specialisation in the same discipline, B.E / B.Tech (Hons) and B.E / B.Tech minor in other specialisation.</p>
	<ol style="list-style-type: none"> 1. i). B.E / B.Tech. <i>Honours Specialisation</i> in the same discipline: <ol style="list-style-type: none"> a. The student should have earned additionally a minimum of 18 credits from a vertical of the programme. b. Should have passed all the courses in the first attempt. c. Should have earned a minimum CGPA of 7.50. ii). B.E / B.Tech. <i>Honours</i>: <ol style="list-style-type: none"> a. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme. b. Should have passed all the courses in the first attempt. c. Should have earned a minimum CGPA of 7.50. iii). B.E/ B.Tech. <i>Minor</i> in other specialisation: The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E/B.Tech programmes. 2. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits. 3. B.E/ B. Tech. (Hons) Specialisation in the same discipline, B.E / B.Tech. Honors and B.E/B.Tech. minor in other specialisation degree will be optional for students. 4. For the categories 1(i) to 1(ii), the students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt. 5. For the category 1 (iii), the students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above. 6. If a student decides not to opt for Honours, after completing certain number of

	<p>additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.</p> <p>7. If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.</p>
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CLASSIFICATION OF THE DEGREE

FIRST CLASS WITH DISTINCTION

Degree	Duration of programme	Duration permitted	Additional credits above the requirement of curriculum	CGPA	Pass in	Break of study	Prevention due to lack of attendance	Withdrawal from writing end semester examination
B.E / B.Tech. <i>Honours Specialisation</i> in the same discipline	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from any one vertical of the same programme	8.50	First attempt	One year authorised break of study included in duration permitted	Not permitted	Will not be considered as an attempt
B.E / B.Tech. <i>Honours</i>	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from more than one verticals of the same programme	8.50	First attempt	One year authorised break of study included in duration permitted	Not permitted	Will not be considered as an attempt
B.E / B.Tech. <i>Minor</i> in other programme	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from any one vertical of the other programme	8.50	First attempt	One year authorised break of study included in duration permitted	Not permitted	Will not be considered as an attempt

FIRST CLASS

Degree	Duration of programme	Duration permitted	Additional credits above the requirement of curriculum	CGPA	Pass in	Break of study	Prevention due to lack of attendance	Withdrawal from writing end semester examination
B.E / B.Tech. <i>Honours Specialisation</i> in the same discipline	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from any one vertical of the same programme	7.50	First attempt	One year authorised break of study included in duration permitted	Not permitted	Will not be considered as an attempt
B.E / B.Tech. <i>Honour</i>)	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from more than one verticals of the same programme	7.50	First attempt	One year authorised break of study included in duration permitted	Not permitted	Will not be considered as an attempt
B.E / B.Tech. <i>Minor</i> in other programme	3/4 years (Lateral entry, regular)	4/5 years (Lateral entry, regular)	18 credits from any one vertical of the other programme	6.50	-	One year authorised break of study included in duration permitted	Included in duration permitted	-

SECOND CLASS

B.E./B.Tech. Regular and lateral entry and B.E./B.Tech. minor in specialisation other degree students (not covered in clauses 18.1 and 18.2) who qualify for the award of the degree (vide Clause 17) shall be declared to have passed the examination in Second Class.

Student earned additional 18 credits as per Clause 18.5.1 (i) and (ii) but does not satisfy the conditions mentioned in 18.1 or 18.2 shall not be awarded B.E/B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the student becomes eligible for First Class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E. B.Tech. in First Class only.

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