

CHAPTER - 4

* ACADEMIC REGULATIONS FOR UNDER GRADUATE DEGREE LEVEL (B. TECH.) [FULL TIME AND ¹ PART TIME] PROGRAMMES UNDER FACULTY OF TECHNOLOGY AND ENGINEERING

DEFINITIONS

PROGRAMME	--	B. Tech. (Programmes as per Annexure I)
¹ Part Time Programme	--	Programme offered outside the regular time
COURSE	--	One of the constituent subjects of the Programme
SEMESTER	--	Duration for studying a course
TERM	--	A portion of an academic year, normally coinciding with a semester. The words "Term" and "Semester" are generally used synonymously.
REGISTRATION	--	Procedure for getting enrolment in a course.
LETTER GRADE	--	A letter associated with a particular performance level of the student. A qualitative meaning and a numerical index are attached to each grade. A+ to C are Passing grades, D -- Conditional pass, FF – Fail, IF – Interim fail
CREDIT	--	A numerical figure associated with a course. On passing the course, the student earns this "credit"
² GRANTING A TERM	--	This expression is used to indicate whether the in-semester performance of the student is up to acceptable standards. GT – Term granted, NT – Term not granted
REGULAR APPROVAL	--	If a student is unable to attend the institute or appear in an examination on account of unavoidable reasons like illness, accident or unforeseen circumstances, prior / prompt intimation and request to HOD is necessary for seeking approval for the absence. The approval of HOD so obtained will be referred as Regular Approval.

SHORT FORMS

Institute	--	Institute of Technology
Director	--	Director of Institute of Technology
Dean	--	Dean of the Faculty of Technology and Engineering
HOD	--	Head of concerned Department
Appeal Committee	--	Appeal Committee consisting of Director, Dean and Three Professors nominated by Director
IR	--	Initial Registration
RPR	--	Repeat Registration

* Published vide Notification no. NU-474 dated 21.2.2004, BoG mtg.-6.12.2003, reso.-1(a)(i)

² Amended vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

¹ Amendment by substitution vide Noti. No. NU-36 dated 17.4.08, BoG mtg.-29.3.08, reso.-4(a)(iv) & 7

³ RL	--	Repeat Registration for LPW
³ RS	--	Repeat Registration for Studying all components of a course
⁴ NT	--	Term Not Granted
RER	--	Re - examination Registration
³ REC	--	Re-examination Registration for CE component of a course
³ RES	--	Re-Examination Registration for SEE component of a course
³ CE	--	Continuous Evaluation
LPW	--	Laboratory/Project work
SEE	--	Semester end examination
SPE	--	Supplementary examination
R.	--	R. Eng. (UG)

³M.S.E & B.S. E *Deleted*

⁵**R.ENG(UG). 1. PROGRAMMES - Annexure 1**

- a) B. Tech. (Full-Time)
The Under Graduate Degree Programmes in Technology and Engineering, leading to the degree of B. Tech., are offered by the Institute of Technology. All Programmes are full time, of four years duration and are approved by Nirma University. The Programmes offered are listed in Annexure 1.
- b) B. Tech. (Part-Time):
The Under Graduate Degree Programmes in Technology and Engineering, leading to the degree of B. Tech. (Part-Time) are offered by the Institute of Technology. All Programmes are part time of four years duration and are approved by Nirma University. The Programmes offered are listed in Annexure 1.

⁶**R.ENG. (UG) 2. ELIGIBILITY FOR ADMISSION – Annexure 2**

The eligibility criteria for admission to the Programmes are given in Annexure 2.

R.ENG. (UG) 3. CATEGORIES OF COURSES

The following categories of courses are offered in the programmes.

3.1 CREDIT COURSES

These are compulsory courses. They are included in the schedules of various semesters. Credits earned for these courses will be considered for evaluating the academic performance levels of the student.

⁷**3.2 SUPPLEMENTARY COURSES**

These are compulsory courses. They are not included in the schedules of the semesters, but are shown as additional courses, wherever applicable. No credits are

⁴ Added vide noti.No. NU-102 dated 6.5.04, BG mtg.-31.3.2004, reso.-12

⁶ Amended vide noti. No. NU-130 dated 22.5.04, BG mtg.-31.3.04, reso.-6(d), noti.No NU-857 dated 4.3.05, BoG mtg. 5.2.05, reso -6(b) and No. NU-1351 dt 4.11.06, BG mtg.-13.10.06, reso.-5(b);

⁷ Amended by substitution vide noti.No. NU-74 dated 19.4.06, BoG mtg.-31.3.06, reso.-3(b); Amended vide noti.No. NU-36 dt. 29.3.08,BGmtg-29.3.08,reso.4(a)(iv) & 7.

⁵ Amendment by substitution vide noti. No. NU-36 dated 17.4.08, BoG mtg.-29.3.08, reso.-4(a)(iv) & 7

³ Amended by addition, deletion and substitution vide Noti. No. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012,reso.-5(G)

assigned to these courses. The student shall have to pass a supplementary course(s) in maximum of four consecutively available attempts. Failure to satisfy this criterion at any stage will disqualify the student from registering in any higher semester. Such student can appeal to the Appeal Committee. The Committee may grant an extension up to one additional attempt in genuine cases.

3.3 AUDIT COURSES

These are optional courses. No credits are assigned to them. They will be separately notified in each semester.

NOTE: Hereafter, the Credit Courses will be referred to simply as “courses”. Supplementary and Audit courses will be specifically mentioned as such.

R.ENG. (UG) 4. COMPONENTS OF A COURSE

The academic schedule of the courses may consist of one or more of the following components with their respective scope as described.

- ✓ LECTURES (LECT) - Teaching learning processes conducted in real and virtual classrooms with various multi media aids.
- ✓ TERM ASSIGNMENTS (TA) - Supplementary to classroom teaching. It consists of one or more of the following teaching strategies.
Each strategy will form a UNIT.

Tutorial exercises, quizzes, tests, objective questions, term paper

- ✓ LABORATORY WORK / PROJECT WORK (LPW) -This component consists of one or more of the following practical exercises/ projects.
Each set of practical exercises / project will form a UNIT.

Laboratory experiments and their reports, fabrication / workshop jobs, study of machine/equipment, tests on materials/components/prototypes etc.

Seminar, software development, industrial / professional training, analysis, design, research problems etc.

³R.ENG. (UG) 5. EXAMINATIONS

For assessment of the course, each component corresponds to certain examination/s. These examinations are as follows.

LECTURES	--	³ Semester End Examination (SEE)
³ CONTINUOUS EVALUATION	--	CE examination CE may include written examination/s and Term Assignments (TA) Examination

³ Amended by substitution “TA to CE” vide Noti no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012,reso.-5(G)

LABORATORY/PROJECT WORK --	LPW examination
* Practical Work --	PW examination

R.ENG. (UG) 6. COURSE COORDINATOR, ADVISOR

The Dean will appoint faculty members for the following designations. The main functions of each designation are also mentioned.

COURSE COORDINATOR (to be appointed for each course) – to coordinate all matters related to the conduct and assessment of a course.

FACULTY ADVISOR (to be appointed for each semester) – to look after all matters, at the department level, regarding Registrations and Re-Registrations of courses and also to provide guidance and counseling to students regarding these issues.

³R.ENG. (UG)7. TEACHING SCHEME -- Annexure 3

The teaching scheme for the course as a whole will be referred simply as Teaching Scheme.

The teaching scheme of the Units of TA and LPW will be referred as Supplementary Teaching Scheme.

The courses offered in each programme (semester- wise) and their teaching schemes are given in the Semester schedules (Annexure 3). The schemes show the various courses, distribution of teaching hours, course component/s, examinations, component weights and credits allotted to each course.

In certain Programmes, the teaching scheme will include, if necessary, summer vacation training in industry / professional / research organizations.

The Supplementary Teaching Schemes of various Units of TA and LPW together with their *inter se* weights, (within the overall weights of TA and LPW), shall be formulated by the course coordinator in consultation with HOD. These schemes will be approved by the Dean of the Faculty of Technology and Engineering before being notified to the students in the beginning of each semester.

R.ENG. (UG) 8. SEMESTER AND TERM

Normally courses will be offered semester-wise as given in the teaching scheme. However the institute may offer certain course/s of a semester in both terms of an academic year in order to help students to pursue their study more expeditiously.

SUMMER SEMESTER refers to the academic session scheduled in the summer vacation for supplementary/remedial teaching and examinations. Normally, selected courses of only the first two semesters will be offered in the Summer Semester.

For regulations related to Summer Semester Courses and Examinations, see R-19.

R.ENG. (UG) 9. REGISTRATION IN COURSES

- ³9.1 There will be five categories of Registrations. All five categories will be collectively referred to simply as Registration. Individual categories will be referred to by their symbols.

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012,reso.-5(G)

9.2 All Registrations, wherever applicable, will be subject to availability of courses.

9.3 Registration will be done course-wise.

9.4 CATEGORIES OF REGISTRATION

³9.4.1 The Five categories of Registration are:

IR – Initial Registration

RPR – Repeat registration with two sub categories RL (Repeat registration for studying LPW component of a course) and RS (Repeat registration for studying all components of a course)

RER – Re-examination registration with two sub categories REC (Re examination registration of CE component of a course) and RES (Re examination registration of SEE component of a course.)

9.4.2 **Initial Registration (IR)** - In order to study a course for the first time, the student will register under the IR category. This will imply regular attendance for study of all components of that course and appearing at all examinations thereof.

IR registrations for courses of a semester are to be done for ALL courses of that Semester as shown in the Teaching Scheme; IR registration will not be permitted for lesser number of courses. The student who so registers (IR) for all courses of a semester will be considered as having been registered in that semester.

New entrants admitted to the programme on the basis of HSCE or equivalent will register (IR) for the first semester. Diploma students admitted to the Degree programme will register (IR) for the semester as notified by Nirma University.

³9.4.3 **Repeat Registration (RS)**

The student whose Term is not granted for any registered course (R.12) will have to repeat the study of that course. He will have to seek fresh registration for this purpose. The category of such registration will be as follows:

Term not granted <u>Category</u>	Registration <u>Category</u>
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³NT

³RS

³RS - This category will imply regular attendance to study all components (i.e. LECT, CE, LPW as applicable) and appearing at all examinations thereof.

9.4.4 **RE-Registration (RER)** - This registration is necessary for appearing again in a particular examination of a course. It will not involve regular attendance for studying that course.

³9.4.5 **RPR Registration** - This term will be used where necessary to include registrations of both categories RL and RS.

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012,reso.-5(G)

9.5 APPROVAL OF REGISTRATION

Every student must apply in the prescribed form for registrations, as applicable. The decision on the student's request will be based on the availability of courses and applicable Regulations. The Director will issue appropriate orders for processing the application, including scrutiny, verification and final orders.

9.6 SIMULTANEOUS REGISTRATION IN DIFFERENT CATEGORIES

9.6.1 Semesters will be registered in chronological order.

³9.6.2 A student will not be permitted to register (IR) in the next higher semester if the total number of courses with RER and/or RPR as applicable in his case exceeds Three.

9.6.3 The student who becomes eligible for IR registration in a higher semester must first register for all RER and RPR registrations as applicable in his case.

9.6.4 The student who is not eligible to register in a higher semester in any term must register in that term, for all RER and RPR registrations applicable in his case.

R.ENG. (UG) 10. GRADES

PERFORMANCE LEVELS

The Performance level of the student in any examination will be adjudged in terms of the letter grades given in Table 1.

Table-1

Grade (G)	Qualitative Meaning (GQ)	Equivalent Grade Point (g)
A+	Excellent	10
A	Creditable	9
B+	Very Good	8
B	Good	7
C+	Satisfactory	6
C	Average	5
D	Conditional Pass	4
FF	Fail	0
IF	Interim Fail	0

(⁸ GT & NT Deleted)

R.ENG. (UG) 11. SCOPE OF EXAMINATIONS AND ASSESSMENT

In order to pass a course, the students will have to pass all examinations of that course. The scope of the examinations and the method of assessment will be as follows.

11.1 In all mark-based assessment, the overall percentage marks, if fractional, will be rounded off to the next higher integer value.

³**11.2** CE EXAMINATION (IR and RPR registration)

All exercises in CE will be continuously assessed during the semester and given marks. Oral examination may be included in the assessment at all possible stages. The total marks of all Units of CE will be aggregated based on their *inter se* weights to give the overall percentage of marks in the CE examination.

⁸ Deleted grades – 'GT' and 'NT' vide noti. No. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012, reso.-5(G)

³If the student fails in CE examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration as REC in subsequent semester, if the student is otherwise eligible.

³11.3 LPW EXAMINATION (³ IR and RL/RS)

All assignments in Laboratory work and Project Work will be continuously / periodically assessed (as applicable) during the semester. In addition there will be an overall assessment at the end of the semester. Oral examination will be included in the assessment at all possible stages. Each assessment will be given marks. The total marks of all Units of LPW will be aggregated based on their *inter se* weights to give the overall percentage of marks in the LPW examination. The course coordinator will notify the procedure for assessment, review, viva voce etc to the students in advance

- ³ If the student fails in LPW examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration as RL in subsequent semester, if the student fulfills the condition of granting the term (R-12)”
The course coordinator will notify the procedure for assessment, review, viva voce etc to the students in advance.

³ 11.4 MSE & BSE deleted

⁹ 11.5 SEMESTER END EXAMINATION (SEE) (IR and RPR)

The expression “Semester End Examination” refers to the written examination of a course taken at the end of a semester. This will cover the full syllabus.
The assessment will be mark based as per normal practice in written examinations.

11.6 SUPPLEMENTARY EXAMINATION (SPE) (RER registration, grade IF in SEE)

The institute may decide to hold a Supplementary Examination after SEE for students who have obtained grade IF in SEE. Such students will have to seek RER registration.

11.7 SCHEDULES OF SEE AND SPE

SEEs of all courses of the programme, as per the teaching scheme, will be held at the end of both terms.

The term end Supplementary Examinations (SPE), if held, will be for only those courses that are offered in the semesters of that term.

11.8 Absence in any examination with or without Regular Approval will be assigned zero mark.

¹⁰R.ENG. (UG) 12. GRANTING OF TERM

¹⁰ 12.1 The Term will be granted course-wise

⁹ Amended by substituting heading vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

¹⁰ Amended by substitution vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

³ Amended by substitution & deletion vide Noti no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012,reso.-5(G)

³12.2 The granting of Term for all the students (IR, RPR) will depend on the compliance of maintaining minimum 85 % attendance in all components of the course (as applicable) Regular approval for remaining absent up to 15 % is necessary

Note: In the case of long duration training or project work, where final examination is not possible before the Term ends, a certificate by the course coordinator that the student's progress is satisfactory will be acceptable.

12.3 The student who has been given category NT may appeal to the Appeal Committee giving full reasons for his default. The decision of the Committee in all such cases will be final.

12.4 The student who is given NT category will not be permitted to appear in SEE of the concerned course. He will also be given grade FF in that course.

R.ENG. (UG) 13. GRADES IN EXAMINATIONS

³13.1 ³CE and LPW EXAMINATIONS

Grades for the ³CE and LPW examinations will be given on the basis of the percentage marks obtained by the student in the respective examinations.

Table 2 (a) shall be referred for converting percentage marks into corresponding Grades (G) for all examinations except CE and Table 2 (b) for ³CE

Table 2 (a)

All examinations

except ³CE

<u>% marks</u>	<u>Grade(G)</u>
90 and above	A+
80-89	A
70-79	B+
60-69	B
50-59	C+
40-49	C
Less than 40	³ IF

Table 2 (b)

for ³CE

<u>% marks</u>	<u>Grade(G)</u>
90 and above	A+
80-89	A
70-79	B+
60-69	B
50-59	C+
40-49	C
^{3-A} 35-39	D
Less than ^{3-A} 35	IF

13.2 GRADE IN SEE

^{3-A} In the normal course, a student (IR, RPR) and category GT will appear for SEE after his CE and LPW examination, in the same semester. Grade for the performance in SEE will be given on the basis of the percentage marks obtained by the student. Table 2(a) shall be referred to for converting percentage marks into corresponding grades (G) except that for categories - (i) and (ii) given below, grade IF will be given:

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012, reso.-5(G)

^{3-A} Amended by addition/substitution vide noti.No. NU-082 dated 20.05.17, BoG mtg.-18.4.17, reso.-4(D)(v)(a)

Performance	Grade
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(i) Fail	IF
(ii) Absence	IF

Notwithstanding anything contained in terms of giving 'IF' grade as shown in (ii) in the table above, the Director of Institute will scrutinize the genuineness about remaining absence in Semester End Examination through Appeal Committee and if the Director, after said scrutiny, decides to show 'Ab' instead 'IF' in (ii) of above table then in the grade sheet, instead of 'IF', 'Ab(S)' shall be mentioned in such cases only.

13.3 GRADE IN SPE

The student of category (i) or (ii) of R. 13.2 (with grade IF) will be eligible to appear in the SPE (with RER registration) of that course at the end of that term. The criteria for giving grade in SPE will be the same as given in R.13.2

13.4 The student who obtains grade IF in SPE will be allowed to appear in Three consecutively available subsequent SEE/s of the concerned course. The criteria for giving grades in these three attempts will be the same as given in R.13.2. However, grade IF in the final attempt will be converted into grade FF.

^{3&13} 13.5 COURSE GRADE

³Course grade will be given only when the student passes all component examinations. Marks of SEE/ SPE, CE and LPW (as applicable) examinations shall first be aggregated on the basis of the component / *inter se* weights given in the Teaching Scheme. After the aggregate marks of the entire group are so calculated, the performance of each student in the course as a whole will be assigned a grade based on his aggregate percentage viewed in relation to the overall performance of the group.

In giving relative grades, the number and designation of various grades (G) shall be kept the same as shown in Table 2 (a). ¹³The course coordinator will decide the cut off percentages of relative grading subject to the guidelines prescribed by the Academic Council.

The Transcript will show only the Course Grade and not the Component Grades.

13.6 The provisions of R. 13.4 are subject to the maximum permissible duration to pass courses of first two semesters and the entire Programme given in R.17.

R.ENG. (UG) 14. INTERPRETATION OF GRADES

(a) Grade A+ should be given with great care and discretion. Normally it should be reserved for a very distinguished performance, with respect to both marks and quality of output.

¹¹ Amended by deletion vide Notification no. NU-77 dated 19.4.2006, BoG mtg.-31.3.2006, reso.-3(b)

¹² Added vide Notification no. NU-1345 dated 3.11.2006, BoG mtg.-13.10.06, reso.no. 5(b)

¹³ Amended by substitution vide Notification no. NU-1345 dated 3.11.2006, BoG mtg.-13.10.06, reso.no. 5(b)

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012, reso.-5(G)

^{12-A} Added vide noti. No. NU-261 dated 11.05.2016, BoG mtg.-16.04.16, reso. No. 3(B)

(b) ³Grade C is the minimum for passing. A student getting grade D in CE can improve

his performance (at his option) by repeating CE in subsequent semester. Better of the grades obtained in the two examinations will be considered.

(c) ³Grade FF

i) If this grade is given because of ³NT (R.12), the student will have to seek ³RS registration for repeat study of the course.

ii) If the grade FF is given due to failure in the final admissible attempt in SEE, the student will have to seek RS registration for repeat study.

(d) ³Grade IF - This is an interim fail grade given in CE, LPW & SEE/SPE as under :

<u>Performance</u>	<u>Grade</u>
Fail in CE	IF (C)
Fail in LPW	IF (L)
Fail in SEE/SPE	IF (S)
^{3-A} Fail in Overall Course	IF (O)

^{3-A} Note: If a student getting IF(O) in a course, then he/she can improve his/her performance by repeating CE (all components of CE) of the course in the subsequent semester depending upon his/her choice. In such case, he/she will also reappear in SEE.

R.ENG. (UG) 15. PASSING STANDARDS

15.1 PASSING A COMPONENT: The standards of passing a component / course / Programme are given below. (Min C means grade C or a better grade)

³ COMPONENT	-- Min C in each component examinations i.e., CE, LPW & SEE /SPE
CONTINUOUS EVALUATION	-- Min C (in case of grade D, refer regulation for Gracing)
LPW	-- Min C
SEE/SPE	-- Min C
COURSE	-- Min C

³15.2 GRACING -- A student not satisfying condition given in R 15.1 for passing a given course will be deemed to have been “Graced for passing” the course if ³the student fulfils the following two conditions:

- (i) Grade D in ³CE
- (ii) ³Min C in LPW and SEE/SPE (as applicable) and Min C in a course.

³A student will be allowed a total of six Gracing in the entire programme of U.G programmes respectively.

⁸ Amended by substitution vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012, reso.-5(G)

⁸No special mention about Gracing will be made in the Transcript.

- 15.3** PROGRAMME --- Total credits of all credit courses of the Programme with
CPI min 5.0
- 15.4** FAILURE - Student not satisfying the criteria of Passing / Gracing will be considered as having Failed in the Examination/ Component / Course / Programme.
- 15.5** The student who has once passed an examination will not be allowed to appear at it again.
- 15.6** Grades/marks obtained by the student in examinations passed by him will be carried forward as necessary.

R.ENG. (UG) 16. PERFORMANCE LEVELS

16.1 INDICES

The performance level of the student in credit courses at different stages of his study is given by the following indices. All index values will be rounded off to the second place of decimal.

PIC -- Performance index for the course

PPI -- Progressive Performance Index

SPI -- Semester Performance index

CPI -- Cumulative Performance index

PIC = Equivalent grade point (g) corresponding to the course grade
(R. 10 and 13.5)

PPI = (Up to any stage under consideration)

= $(i_1 c_1 + i_2 c_2 + i_3 c_3 \dots) / (\text{sum of credits of all courses registered up to that stage})$ where:

$i_1, i_2, i_3 \dots$ are PIC values of CREDIT COURSES passed and

$c_1, c_2, c_3 \dots$ are the credit values of the respective courses.

SPI -- This index is similar to PPI except that the stage to be considered is the end of a semester.

CPI -- This index refers to the entire programme. It is calculated when the student passes the programme. The method of calculation is the same as for PPI or SPI but the summation is for the courses of all semesters of the programme.

16.2 CLASS AND PERCENTAGE (%) MARKS

In case an equivalence between CPI values and Class / % marks is desired, the same can be obtained as given below:

$$\% \text{ marks} = (\text{CPI} - 0.5) * 10$$

CLASS

CPI Value	Equivalent Class
5.00 to 6.49	Second
6.50 to 7.49	First
7.5 and above	First – with distinction

¹⁴ R.ENG. (UG) 17. CANCELLATION OF ADMISSION

The admission of following categories of students is liable to be cancelled:

- (i) Failure to earn credits for all courses of Semester-I within four semesters (except summer semesters) of admission to the programme,
- (ii) Failure to earn credits for all courses of Semester-II within five semesters (except summer semesters) of admission to the programme,
- (iii) Failure to earn requisite credits and CPI min. 5.00 to pass the programme within a period (after admission to the programme), equal to the stipulated duration of the programme plus, ¹⁵ two additional semesters.

The student, whose admission is so cancelled, can appeal to the Appeal Committee. The Committee may grant an extension upto the one additional semester for cases falling under (i) and (ii) and upto two additional semesters for cases falling under (iii) for deserving cases, provided the student gives a viable assurance to make up the shortfall within that period.

¹⁶ Notwithstanding anything contained above, the President may consider the cases of such students falling under category (i), (ii) & (iii), if the student has cleared all the courses and have earned the requisite number of credits except one course, on an appeal filed. The President will consider such appeal on the recommendation of the appeal committee prescribed under the regulations for the purpose and after considering the genuineness of the case may give one additional attempt to the student concerned to clear the remaining course.

R.ENG. (UG) 18. EXAMINERS

All continuous assessments will be carried out by the faculty concerned. All other assessments / examinations will be carried out by a panel of at least two examiners. The extent of associating external experts with the examination, selection and appointment of all examiners will be decided by the Dean in consultation with a committee appointed for this purpose.

R.ENG. (UG) 19. SUMMER SEMESTER COURSES AND EXAMINATIONS

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19.1 The Institute may offer the following two types of courses in the Summer Semester. No separate registration is necessary to attend a course in summer semester.

- (i) For students with RER registration -- Courses in which only the LECT component will be taught.
- (ii) For students with RPR registration -- Courses in which all ⁸ applicable components will be taught.

A course will be offered if a minimum number of Eight students apply for enrolment. The Director is empowered to relax this condition as he deems fit.

¹⁴ Amended by substitution vide Notification no. NU-76 dated 19.4.2006, BoG mtg.-31.3.2006, reso.-3(b)

⁸ Amended by addition vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

¹⁵ Amended by substitution vide noti. no. NU-104 dated 13.4.07, BoG mtg.-31.3.07, reso.-6(a) for 2007-08 onwards

¹⁶ Amended by addition & substitution vide noti. No. NU-1864A dt 08.11.07, BoG mtg.-30.10.07, reso. No.5(a) &

then, Notification No. NU-125 dated 14.10.13, BoG mtg.-28.09.13, reso. No. 5(b)

19.2 For type (i) courses, the Summer Semester end examination will be considered as SEE or SPE as applicable to each student. If the student gets passing grade in the examination, he will be given the appropriate grade, otherwise the status of his registration before Summer Semester will remain unchanged.

19.3 For type (ii) courses, all Regulations applicable to IR and RPR registrations will apply. Examinations i.e. ³CE, LPW and SEE as applicable will be taken. No Block, Supplementary or additional examination will be taken.

If the student passes in the course, he will be given the appropriate grade, otherwise the status of his registration before Summer Semester will remain unchanged.

19.4 The maximum number of enrolments allowed to a student will be as follows:

Only RER	--	3
Only RPR	--	2
RPR + RER	--	1 + 1

R.ENG. (UG) 20. SUPPLEMENTARY COURSES

¹⁷ This category includes courses in General Development, Language and Communication Skills, Entrepreneurship etc. It also includes NCC & NSS courses.

Except in the case of NCC or NSS Training, the structure of these courses will be decided by Dean, Faculty of Technology and Engineering. The Course Structure of NCC/NSS will be prepared as and when they are introduced.

The teaching schemes for these courses will be shown separately in Annexure 3. Components of the courses will in general be the same as for credit courses, except in courses like NCC, NSC etc.

¹⁸ Except in the case of NCC or NSS training, the regulations for registration, (¹⁸) granting of terms, examinations, assessment, grading and passing will be the same as those for the credit courses. However no Gracing will be allowed.

The students will have to pass these course/s in a total of Four consecutively available attempts. Cases of students who do not still pass these course/s will be referred to the Appeal Committee. Its decision in such cases will be final.

The Transcript will contain an appropriate reference to these courses. Since no credits are allotted to them, they will not affect Performance Indices.

R.ENG. (UG) 21. AUDIT COURSES

Courses in this category are technology oriented but not necessarily focused on the discipline under study. Mostly they may be limited to class room teaching and related assignments but if necessary, they may include laboratory work also.

These courses are optional and there will be no examination for them.

¹⁸ Deleted words 're-registration' vide Notification no. NU-102 dated 6.5.2004, BoG mtg.-31.3.2004, reso.-12

¹⁷ Amended by substitution vide Notification no. NU-857 dated 4.3.2005, BoG mtg.-5.2.2005, reso.-6(b)

³ Amended by substitution vide Notification no. NU-28 dated 20.4.2012, BoG mtg.-30.3.2012, reso.-5(G)

In each semester, the Institute will notify the audit courses likely to be offered along with their teaching schemes. Students who desire to study any of the notified course/s can decide their choice in consultation with the Advisor. The Institute will decide the courses to be actually offered after ascertaining the choice of the students. Normally a course will be offered if at least 8 students opt for its registration.

Registration will be done course wise. A student will be allowed to register for only one Audit course per semester. The Advisor will recommend the registration to HOD, only if in his opinion, the academic record of the student is satisfactory.

HOD will forward the proposal with his remarks to the Director for final orders.

The student will be deemed to have completed the course satisfactorily if he shows good conduct and behaviour, maintains minimum 85% attendance and submits all assignments diligently and regularly.

On satisfactory completion of the course, a suitable mention will be made in the Transcript of the student.

¹⁹ The structure of these courses will be decided by the Dean of the Faculty

²⁰ **R.ENG.(UG) 22. PRE-REQUISITE COURSES AS CREDIT COURSES**

22.1 The students who are admitted in the higher semesters as per provisions of Annexure-2 under Regulation R.ENG.(UG)-2 shall be required to complete the pre-requisite courses as defined under the said regulation.

22.2 The syllabi and teaching and examination schemes for pre-requisite courses will be approved by the Director General on the recommendation of the Dean concerned.

The Regulations for examinations, assessment, grading and passing etc., will be the same as those for credit courses.

22.3 The student shall have to pass a pre-requisite course in a maximum of four consecutively available attempts. Failure to satisfy this criterion at any stage will disqualify the student from registering in any higher semester.

22.4 On passing all scheduled pre-requisite courses, the student will be deemed to have earned all credits allotted to the first/ first two semesters, as the case may be. The credits earned for pre-requisite courses will not be counted for calculating any performance index.

²⁰ Added vide Notification no. NU-857 dated 4.3.2005, BoG mtg.-5.2.2005, reso.-6(b)

¹⁹ Amended by addition vide Notification no. NU-29 dated 20.04.2012, BoG mtg.-30.03.12, reso.-5(H)

DISCLAIMER

This regulations are the content of the original notifications issued in pursuance to the Board of Governors meetings and hence, in any dispute or doubt under this document will be verified with the original notification and the same would be final.

Annexure – 1
[Refer: R.ENG. (UG) .1]

LIST OF PROGRAMMES

²¹ a) B. Tech. (Full-Time)

1. ²² B. Tech. in Civil Engineering
2. B. Tech. in Chemical Engineering
3. B. Tech. in Mechanical Engineering
4. B. Tech. in Electrical Engineering
5. B. Tech. in Instrumentation & Control Engineering
6. B. Tech. in Electronics & Communication Engineering
- ^{21-A} 7. ~~B. Tech. in Information Technology~~
- ^{21-A} 8. B. Tech. in Computer Science and Engineering

b) B. Tech. (Part-Time)

1. B. Tech. in Computer Engineering
2. B. Tech. in Electrical Engineering
3. B. Tech. in Electronics & Communication Eng.
4. B. Tech. in Mechanical Engineering

²² Amendment by change of title from Civil (CTM) vide noti.No. NU-853 dated 4.3.05, BoG mtg.-5.2.05, reso. No.- 6(c)

²¹ Amendment by addition vide Notification No. NU-36 dated 17.4.08, BoG mtg.-29.3.08, reso.-4(a)(iv) & 7

^{21-A} Amended by deletion and addition vide noti. No. NU-20 dated 08.03.2018 u/s 19(3)

Annexure – 2
[Refer: R.ENG. (UG) .2]

Eligibility Criteria for Candidates seeking Admission in the First Year B. Tech. Programme under Nirma University

- ²³ (A) The students seeking admission in the 1st year of Degree Programme leading to Bachelor of Technology (B.Tech.) shall **have passed the Qualifying Examination with minimum eligibility criteria of percentage of marks in the subjects as prescribed by the Govt. of Gujarat from time to time.**
- ²⁴ (B.1) The student holding diploma in engineering (after passing Std. 10th or 12th), from the Gujarat State Technical Examination Board or Nirma University or any Recognized Examinations considered equivalent by the Nirma University, will be eligible for admission in Semester-III of respective B. Tech. Programme,
- ²⁵ (B.2) Such students will be required to pass following pre-requisite courses, to be offered during 2nd year of B. Tech. Programme as per R.ENG.(UG)-22:
- a) Foundation Mathematics – I
 - b) Foundation Mathematics – II
 - c) 2CE103 – Computer Programming (for CE.IT,IC & EC)
 - d) 2CE104 - Programming Languages (for ME,CH,CL & EE)
- ²⁶ (B.3) Eligibility for admission to B. Tech. (Part-Time) Programmes:

<u>Programme</u>	<u>Eligibility for admission</u>
(a) B. Tech. in Computer Engineering:	Diploma in Computer Engineering or Technology or Diploma in Information Technology or equivalent, and minimum two years experience in the respective field after completing diploma.
(b) B. Tech in Electrical Engineering/ B. Tech. in Electronics & Communication Engineering/ B. Tech. in Mechanical Engineering:	Diploma in respective branch or equivalent, and minimum two years experience in the respective field after completing diploma.

²³ Amended by substitution vide noti. No. NU-123 dated 13.10.2017, BoG mtg.- 28.09.17, reso. No. 5(B)(iii)

²⁴ Amended by addition vide Notification No. NU-36 dated 15.4.08, BoG mtg.-29.3.08, reso. No. 4(a)(iv)

²⁵ Amended vide Notification No. NU-86 dated 08.05.2012, Approval of Director General u/s 19(3) dtd. 24.04.2012

²⁶ Amended by addition vide Notification No. NU-36 dated 15.4.08, BoG mtg.-29.3.08, reso. No. 4(a)(iv)

(C) Determination of merits for the admission:

The admission to both the above two categories shall be given on merits by adopting one of the following method as decided by the Academic Council:

(a) The Marks obtained in qualifying examination

OR

(b) The Entrance Test conducted by the Nirma University

OR

(c) The Marks obtained in Entrance Test + Qualifying Examination weightage of which shall be decided by the Academic Council.

OR

(d) Any other method to be decided by the Academic Council.
