

ACADEMIC REGULATIONS (R2)::BTECH PROGRAMME

Regular and Lateral Entry Schemes (wef 2018-19)

I. Admissions:

Admissions into first year of B.Tech. Programme: REgular Scheme (RES) and entry at second year of BTech Programme: Lateral Entry Scheme(LES) of the University College of Engineering will be as per the norms stipulated by Adikavi Nannaya University (AKNU) and Andhra Pradesh State Council of Higher Education (APSCHE), Govt. of Andhra Pradesh.

II. Programmes Offered:

The following are the BTech Programmes offered by the University College of Engineering, AKNU.

- 1 Computer Science and Engineering (CSE)
- 2 Electronics and Instrumentation Engineering (EIE)
- 3 Electronics and Communication Engineering (ECE)
- 4 Information Technology (IT)

III. Structure of the BTech Programme:

The programme of instruction will consist of Humanities, Basic Sciences, Engineering Sciences and Technology. The complete programme is distributed over eight semesters with two semesters per academic year. Every branch of B.Tech programme will have a curriculum and syllabi for the courses recommended by the Board of Studies (BoS) and approved by Academic Cell of the University. The academic programmes of the University College of Engineering follow the Choice Based Credit System(CBCS).

IV. Duration of the Programme:

The duration of the programme for RES candidates is four academic years consisting of two semesters in each academic year. A student under RES is permitted to complete the programme in a stipulated time frame of eight consecutive academic years from the date of initial admission.

The duration of the programme for LES candidates is three academic years consisting of two semesters in each academic year. A student under LES is permitted to complete the programme in a stipulated time frame of six consecutive academic years from the date of initial admission.

Re Principal UCEng.

DEAN 1
Academic Affairs
Adikavi Nannaya University
RAJAHMUNDRY-533 296.

Dr. B. Raju Reddy
BOB Convener
UNIVERSITY COLLEGE OF ENGINEERING
ADIKAVI NANNAYA UNIVERSITY
RAJAHMUNDRY-533 296.

V. Medium of Instruction:

The medium of instruction and examination is English.

VI. Minimum Instruction Days:

Each semester normally consists of a minimum of 16 weeks of instruction.

VII. Academic Calendar:

The dates of all important events, such as commencement of class work, examinations, vacations, etc., during the academic year will be specified in the Academic Calendar of the University, as approved by the office of Academic Affairs.

VIII. Commonality in Course Structure:

1. Course Structure and Syllabus of I Year CSE and IT branches are same.
2. Course Structure and Syllabus of I Year ECE and EIE branches are same.
3. In the case of I BTech a common question paper can be given for all common subjects across different branches.
4. In the case of II, III and IV BTech common question paper should not be prepared even though the subject and the corresponding syllabus is common across different branches.

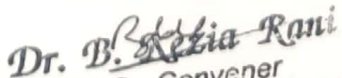
IX. Attendance Regulations:

Attendance of a student is computed by considering total number of periods conducted in all courses as the denominator and the total number of periods actually attended by the student in all courses, as the numerator. It is desirable for a student to put in 100% attendance in all the subjects. However, a candidate shall be permitted to appear for the semester end examination provided he maintains a minimum of 75% overall attendance in that semester.

The shortage of attendance on medical grounds can be condoned up to a maximum of 9% provided the student attains at least 66% attendance and the Head of the Department and Principal are satisfied with the genuineness of the reasons. The Medical Certificate is to be submitted to the Head of the Department when the candidate reports to the classes immediately after the

2


DEAN
Academic Affairs
Adikavi Nannaya University
RAJAHMUNDRY-533 293


Dr. B. Rajia Rani
BOS - Convener
UNIVERSITY COLLEGE OF ENGINEERING
ADIKAVI NANNAYA UNIVERSITY
RAJAHMUNDRY-533 293

absence. Condonation fee as fixed by the college for those whose attendance is between $\geq 66\%$ and $<75\%$ shall be charged before the semester-end examinations.

In the case of students who participate in co-curricular, extra-curricular activities like student seminars, N.S.S, N.C.C, Inter-collegiate tournaments and any such other activities involving the representation of the University, with the prior approval of the Head and Principal, the candidate may be deemed to have attended the classes during the actual period of such activity, solely for the purpose of attendance.

A student, who could not satisfy the minimum attendance requirement of 66% in any semester, shall be declared "Detained". He is not eligible to appear for the semester end examinations. He will not be promoted to the next semester and shall have to repeat that semester with the next batch(es) of students. Such students who are detained and seek readmission, should submit an undertaking/a declaration that they will abide by the regulations existing at the time of readmission.

X. Examinations & Evaluation Process:

The examinations for the B. Tech Degree shall be conducted as per the prescribed Schemes in all the branches of study offered by University College of Engineering.

(A) Theory Course:


For all theory courses, the assessment shall be for 25 marks through internal evaluation and 75 marks through external semester-end examination of three hours duration.

i) Internal Evaluation:

The sessional marks shall be awarded through internal evaluation by the teachers concerned based on the continuous assessment which includes class tests, quiz, viva-voce, assignments, student regularity, two mid-examinations etc., according to a scheme notified by the department at the beginning of the semester.

Out of the 25 internal marks, 20 marks are assigned for internal-mid exam and 5 marks for assignment. The average of 2 internal-mid exams is

3r


DEAN
Academic Affairs
Adikavi Nannaya University
RAJAHMUNDRY-533 296.

considered for the 20 marks allocated. The first assignment should be submitted before the conduct of first internal mid examination and the second assignment should be submitted before the conduct of second internal mid examination.

A Candidate has to secure a minimum of 50% marks to be declared as Pass in the internal exam. (Ex. A candidate has to secure a minimum of 12.5 marks out of 25 marks to be declared as Pass in Internal). A candidate is allowed to appear for semester end examination only if he/she is passed in the internal examinations.

Internal Mid Exam:

Internal mid exam for a duration of 90 mts is conducted for 40 marks: 2 questions each carrying 15 marks with internal choice and 2 out of 4 questions each carrying 5 marks to be answered. The marks secured in each exam are reduced to 20 and the average of the two is taken as total internal marks.

ii) External Evaluation:

The Question paper shall be set externally and the answer scripts also will be valued externally only. There will be only Single Valuation for B.Tech. A candidate has to secure a minimum of 40% marks to be declared as Pass only in External Examination (Ex: Out of 75 marks he/she has to secure a minimum of 30Marks) but not for overall pass.

Overall Theory Evaluation:

A candidate has to secure a minimum of 50% marks to be declared as Pass out of Internal and External Assessment (Ex: Out of 100 Marks he/she has to secure a minimum of 50 marks)

Revaluation: As per the Notification issued by Controller of Examinations, the students can submit the applications for revaluation, along with the fee receipt of revaluation of his/her answer script(s) of theory course(s), if he/she is not satisfied with the Grade obtained.

The Controller of Examinations shall arrange for revaluation of those answer script(s). A New external examiner, other than the first examiner, shall re-evaluate the answer script. Better marks of the two will be taken into

consideration for awarding grade.

- **Note: Recounting and Challenge valuation will not be entertained.**
- **Student has to secure 50% of total credits by the end of second year failing which the student is not allowed to be promoted to third year.**

(B) Laboratory Course:

Each student will perform about 10 to 12 experiments in each laboratory course. Laboratory course will be evaluated for 100 marks, out of which 50 marks are for external examination and 50 marks are for internal evaluation. Out of the 50 internal evaluation marks, 25 marks are assigned for internal lab examination, 10 marks for record work, 10 marks are awarded based on continuous assessment and 5 marks for attendance. The external examination will be conducted by two examiners, one of them being laboratory class teacher as internal examiner (nominated by the Principal on recommendation of HoD) and an external examiner nominated by the Vice Chancellor from the panel of experts recommended by the HoD and Principal.

Candidates shall be required to produce complete and certified records of the work done by them in each of the practical subjects at the time of semester end practical examination, failing which they will not be allowed for such examination.

A candidate has to secure minimum of 50% marks in Internal Lab Examination as well as semester End Examination to be declared as Pass (Ex: If Internal Lab Max Mark is 50 he/she has to get 25 and external Lab Examination Mark is 50 he/she has to get 25 i.e. Out of 100 Marks he/she has to secure a minimum of 50 Marks)

(C) Industrial Training:

The industrial training carried out during summer vacation after completion of III Year II semester is assessed in IV Year I semester internally for 100 marks by an internal evaluation committee constituted by the HoD.

5


DEAN
Academic Affairs
Adikavi Nannaya University
RAJAHMUNDRY-533 296

(D) Mini-Project Work:

The mini-project work done by the students in IV Year I Semester is evaluated for 100 marks out of which 50 marks are for internal evaluation through continuous assessment and 50 marks through external evaluation by a committee nominated by the HOD.

(E) Project Work:

The Project work is evaluated for 200 marks in the IV year II semester. The assessment is done for 100 marks internally and for the remaining 100 marks by the committee consisting of at least one external expert nominated by the Vice Chancellor from the list of experts recommended by HOD and Principal. If a student fails in the fourth year II semester project, he has to appear for reassessment within one month for which he has to pay the re-examination fee.

XI. Award of Grades:


The Marks thus obtained will be converted to grades on a 10.0 point scale and then to semester grade point average (SGPA) and subsequently cumulative grade point average (CGPA) is awarded at the end of the course

S.No.	Range of Marks (%)	Grade	Grade Points	Description
01	≥ 90 ≤100	O	10	Outstanding
02	≥80 < 90	A+	9	Excellent
03	≥ 70 < 80	A	8	Very Good
04	≥ 60 < 70	B+	7	Good
05	≥ 55 < 60	B	6	Average
06	≥ 50 < 55	C	5	Pass
08	< 50	F	0	Fail
09	Not Appeared for Exam			(Ab)Absent

Cumulative Grade Point Average (CGPA) will be calculated from I semester onwards up to the final semester. CGPA multiplied by "10" gives aggregate percentage of marks obtained by a candidate.

In the case of candidates under Lateral Entry Scheme, CGPA will be calculated from II Year I Semester.

The performance of a student at the end of the each semester is indicated in terms of Semester Grade Point Average (SGPA). The SGPA is calculated as below:

F 6

 DEAN
 Academic Affairs
 Adikavi Nannaya University
 RAJAHMUNDRY-533 296.

Calculation of SGPA (Semester Grade Point Average)

$$SGPA = \frac{\text{Sum of Products of Grade Points and Credits of all the concerned subjects}}{\text{Sum of credits of all the subjects in the semester}}$$

$$= \frac{\sum_1^n (GP * Credits)}{\sum_1^n (Credits)}$$

Where 'n' is the total number of subjects, GP is Grade Points

Calculation of CGPA (Cumulative Grade Point Average)

$$CGPA = \frac{\text{Sum of Products of Grade Points and Credits of all the concerned subjects of all Semesters}}{\text{Sum of credits of all the subjects in all the Semesters}}$$

$$= \frac{\sum_1^s \sum_1^n (GP * Credits)}{\sum_1^s \sum_1^n Credits}$$

SGPA is calculated for the candidates who have passed in all the courses in that semester.


CGPA is calculated for those who clear all the courses in all the previous semesters. The credits of audit courses are not counted for SGPA/CGPA calculation.

Sem	Branch	Sub Code	Subject (Audit Course)
I	CSE&IT	CSEINF106	Professional Ethics and Moral Values
I	ECE&EIE	ECEEIE106	Environmental Sciences
II	CSE&IT	CSEINF206	Environmental Sciences
II	ECE&EIE	ECEEIE206	Professional Ethics and Moral Values

XII. Award of Degree:

A candidate shall be declared to have passed in a subject / paper, if the candidate secures a minimum of "C" grade in theory examination and the practical examination / Project / Field Work / Viva-Voce / Industrial Training / Seminar.

Further, a candidate has to secure a minimum of 40% in theory examination (excluding sessional marks) and a minimum of 50% (excluding sessional marks) in the practical examination / Project / Field Work / Viva-Voce /


DEAN
 Academic Affairs
 Adikavi Nannaya University
 RAJAHMUNDRY-533 296.

Industrial Training / Seminar in Semester-end examinations.

A) Award of Marks by Grafting:

The application of grafting will be extended only to the candidates who secure required pass mark after affecting of rule of graft. Grafting will be done from other Theory/Practical External Examination papers only. Grafting will not be allowed from Internal/Sessional marks. Grafting of maximum 1% of total marks of semester External marks will be allowed. Grafting will be awarded for Theory/Lab for only one subject/paper in semester-end examinations. There are no grace marks.

XIII. Award of Class:

A candidate, who becomes eligible for the award of B.Tech.Degree, shall be placed in one of the following classes.

S.No	Class	CGPA
1	First Class with Distinction	CGPA \geq 7.0 *
2	First Class	6.0 \leq CGPA < 7.0
3	Second Class/Pass	5.0 \leq CGPA < 6.0

*First class with Distinction will be awarded only to those students who clear all the subjects of the program in first attempt of regular examinations.

XIV. Eligibility for Award of B.Tech Degree:

A student shall be eligible for the award of the B.Tech degree if he/she fulfills all the following conditions:

- 1) The student is declared to have passed all the subjects (theory and practical subjects) included in the Scheme of Examination of 8 Semesters(RES)/6 Semesters(LES) and should secure a minimum CGPA of 5.0.
- 2) Registered and successfully completed all the components prescribed for eligibility in the Programme of study to which candidate is admitted within the stipulated period,
- 3) No disciplinary action is pending against him

- 4) Has no dues to the University including hostels.
- 5) Students, who fail to complete their B.Tech. Programme within eight academic years(RES)/ six academic years(LES) from the year of their admission or fail to acquire the credits stipulated for the programme shall forfeit their seat in B.Tech. Programme and their admission shall stand cancelled.

XV. Malpractices:

The Controller of Examinations shall refer the cases of suspected malpractices in mid examinations and semester-end examinations to Malpractice Enquiry Committee constituted by the University. Such committee shall follow the approved scales of punishment. The Principal shall take necessary action against the erring students based on the recommendations of the committee.

XVI. Amendments to Regulations:


The University may, from time to time, revise, amend, or change the Regulations, Schemes of Examinations, and / or Syllabi and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

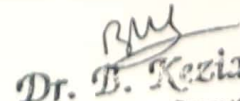
XVII. General:

- (i) The academic regulations should be read as a whole for the purpose of any interpretation.
- (ii) In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice Chancellor is final.

Note1: Student has to secure 50% of total credits by the end of second year failing which the student is not allowed to be promoted to third year.

Note2: Though MOOC course and Soft skills lab are allotted 2 Credits of 50 marks they are not taken into consideration for the SGPA calculation.


DEAN
Academic Affairs
Adikavi Nannaya University
RAJAHMUNDRY-533 296.

9

Dr. B. Kezia Rani
BOS - Convener
UNIVERSITY COLLEGE OF ENGINEERING
ADIKAVI NANNAYA UNIVERSITY
RAJAMAHENDRAVARAM-533 296.