



UNIVERSITY OF CALICUT

**Abstract**

General and Academic Branch - Faculty of Engineering - B.Tech Regulations 2019 - Corrections in the Regulations - Resolution of the Faculty of Engineering- Approved by the Academic Council-Implemented - Orders issued.

U.O.No. 11176/2021/Admn

**G & A - IV - E**

Dated, Calicut University.P.O, 06.10.2021

- Read:-*1. U.O.No. 2223/2020/Admn dtd.18.02.2020.  
2. Minutes of the meeting of the Faculty of Engineering, held on 17.08.2021.  
3. Item No. II.A in the minutes of the LXXXII meeting of Academic Council, held on 24.09.2021.  
4. Orders of the Vice-chancellor in the file No.220365/GA-IV-E1/2019/admn dated. 05.10.2021.

**ORDER**

1. The Regulations of B.Tech Programme w.e.f 2019 admission onwards, was implemented vide paper read (1) above.
2. As there were some corrections in the B.Tech Regulations implemented w.e.f 2019 Admissions, the same was rectified and the corrected Regulations was approved by the Faculty of Engineering, vide paper read (2) above.
3. The minutes of the Faculty of Engineering have been approved by the LXXXII meeting of Academic Council vide paper read (3) above, and the Vice Chancellor has ordered to implement the same.
4. The U.O read (1) above, stands modified to this extent.
5. Orders are issued accordingly. (Corrected Regulations of B.Tech Programme w.e.f 2019 admissions appended)

Arsad M

Assistant Registrar

To

- 1.The Principal, CUIET.
- 2.The Controller of Examinations, PB.

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Forwarded / By Order

Section Officer

**UNIVERSITY OF CALICUT**

**Course Regulations**

**of**

**B.Tech. – Engineering Degree Courses**

**(With effect from 2019 admissions)**

## **1. Conditions for Admission**

The condition to admission to B.Tech degree will be as per the prospectus of the Commissioner for Entrance Examinations. Any amendments in qualifications for admission as notified by the Government of Kerala/ Commissioner for Entrance Examinations, Kerala from time to time will be applicable for the admission to B.Tech Degree Course.

Candidates have to qualify the State Level Entrance examination conducted by the Commissioner of Entrance Examinations or State level/National level Entrance Examination approved by the Government of Kerala as equivalent. They shall also satisfy the conditions regarding age and physical fitness as prescribed by the University of Calicut.

## **2. Admission to Diploma Holders**

Diploma holders are eligible for admission to the 3rd semester/ 2<sup>nd</sup> year (regular full-time batch) engineering degree course (B.Tech.) under the LATERAL ENTRY scheme. A candidate who has a diploma in engineering awarded by the State Board of Technical Examinations or an examination recognized equivalent by the State Board of Technical Education, and undergoing regular course of 3 years in an institute approved by AICTE. The admission criteria will be based on the prospectus of the concerned authority dealing with the admission of diploma holders. These students are not required to study any deficiency papers of the first and second semesters.

The Courses extend over a period of four years (or 8 semesters). The classes will be conducted normally during day time on all working days and on holidays, if necessary, in accordance with the syllabi of the University. Candidates should be admitted only to the branch of Engineering in which they have obtained the diploma. However certain branches of diploma courses are considered equivalent to certain branches for admission to B.Tech Courses, the details of which are given in Annexure I.

Note: Criteria for selection and method of admission to merit/management seats for Engineering degree courses (admissions to the second year, under lateral entry) conducted by colleges affiliated to University of Calicut shall be governed by the rules/regulations framed by the Commissioner of Entrance Examinations or other competent authority appointed by the Government of Kerala, in consultation with the University and without contravening with the stipulation of the University Grants Commission (UGC) or All India Council for Technical Education (AICTE). In all matters related to selection and admission, the decisions of the University shall be final. The students admitted by affiliated colleges violating the above regulations will not be eligible for registration to University Examinations and contravention of the regulations shall lead to withdrawal/ suspension of affiliation.

### **3. Subjects of Study**

The subjects of study, both theory and practical, shall be in accordance with the prescribed scheme and syllabi of each branch of study.

### **4. Duration of the Course**

The course for the B.Tech degree shall extend over a period of four academic years comprising of eight semesters. The maximum duration permissible for taking the B.Tech. degree course is fixed as 6 years. Medium of instruction, examination, and evaluation shall be English.

Classes of first semester shall be started as instructed by the concerned government department/agency.

The minimum number of working days per semester shall be 72.

### **5. Branches of Study**

1. Electrical and Electronics Engineering (EE)
2. Electronics and Communication Engineering (EC)
3. Information Technology (IT)
4. Mechanical Engineering (ME)
5. Printing Technology (PT)

### **6. Course Calendar**

The course calendar, published by the University in advance, should be strictly followed for ensuring timely conduct of examinations and publication of results. Semester classes should be started and completed on the stipulated dates at all affiliated engineering colleges as notified by the University.

Regular classes at the affiliated engineering colleges should be suspended during the period of centralized valuation camp. Head of Institution shall ensure the availability of sufficient number of regular faculty members having experience and qualifications (as per AICTE guidelines) in the institution.

## **7. Electives**

All students shall choose five core elective subjects, one each in fifth, sixth and seventh semesters and two numbers in eight semester from a set of minimum number of six elective subjects in each group prescribed in the syllabus and offered by the institution. All students also have to study one open elective of interdisciplinary nature in sixth semester. There should be at least 25% students of the class/batch for an elective subject to be offered.

New electives may be introduced according to the needs of emerging field and Technology. The name of the elective and its syllabus should be approved by the University before the subject is offered as an elective.

## **8. Assessment of Students**

Assessment of students for each subject will be done by internal continuous assessment and semester end examinations. Internal assessment shall be conducted throughout the semester. It shall be based on internal examinations, assignments (such as home work, problem solving, group discussions, quiz, literature survey, seminar, term-project, software exercises, etc.) as decided by the faculty handling the course, and regularity in the class.

Semester end examinations of theory subjects will be conducted by the University. Semester end examinations in all practical subjects of first and second semesters will be conducted at institution level without any external examiner. For all practical subjects in third to eight semesters, semester end examinations will be conducted at institutional level with an external examiner duly appointed by the University.

Supplementary and improvement candidates will have to appear for the end-semester examinations along with regular students. However, end-semester examinations of 7<sup>th</sup> & 8<sup>th</sup> semesters will be conducted once in every semester. Head of institution should take necessary steps to prevent any malpractices in the end-semester examinations. If any such instances are detected, they should be reported to the University without any delay.

### **(a) Assessment in Theory Subjects**

The marks allotted for internal continuous assessment and end-semester university examinations shall be 50 marks and 100 marks respectively with a maximum of 150 marks for each theory subject.

The weightage to award internal continuous assessment marks should be as follows

Test papers (minimum two)	– 70%
Assignments (minimum two) such as home work, problem solving, group discussions, quiz, Literature survey, seminar, term-project, Software exercises, etc.	–20%
Regularity in the class	–10%

It is permitted to have variation in this pattern of internal continuous assessment for subjects involving drawing, design, etc.

Full credit for regularity in the class can be given only if the candidate has secured minimum 90% attendance in the subject.

#### **(b) Assessment in Practical Subjects**

For **first and second semesters** only internal continuous assessment is prescribed and maximum total marks allotted is 100. Apportioning being-

Laboratory practical, record of works done and regular Viva voce - 60%

Tests - 30%

Regularity in the lab - 10%

No semester end exam is prescribed.

For **third to eighth semesters** the marks allotted for internal continuous assessment and semester-end practical examinations shall be 50 marks and 100 marks respectively.

Apportioning of internal marks shall be in the same manner as in the first two semesters.

University shall appoint two examiners - one internal and one external - for each practical subject in order to conduct semester-end examinations for practical subjects in 3-8 semesters.

These examiners should necessarily have a minimum of one year teaching experience at engineering degree level.

Award of marks in the end-semester practical examinations (except Project) should be as follows:

Record of works done	–10%
Viva voce	–20%
Procedure and tabulation form, Conducting experiment, results and inference	– 70%

No candidate will be permitted to attend the end-semester practical examinations unless he/she produces certified record of the laboratory.

## **9. Pattern of Questions for End-Semester Examinations of Theory Subjects**

The question papers of end-semester examinations of theory subjects shall be able to perform achievement testing of the students in an effective manner. The question paper shall be prepared

- (a) covering all sections of the course syllabus
- (b) unambiguous and free from any defects/errors
- (c) emphasizing knowledge testing, problem solving & quantitative methods
- (d) containing adequate data/other information on the problems assigned
- (e) having clear and complete instructions to the candidates.

Duration of end-semester examinations will be 3 hours. The pattern of questions for theory subjects shall be as follows:

### **University Examination Pattern**

***PART A: Analytical/problem solving SHORT questions 10x 5 marks= 50 marks***

Candidates have to answer TEN questions out of FIFTEEN. There shall be THREE questions from each module with total FIFTEEN questions.

***PART B: Analytical/Problem solving DESCRIPTIVE questions 5 x 10 marks= 50 marks***

Two questions from each module with choice to answer one question.

***Maximum Total Marks: 100***

Weightage for categories such as problem solving, descriptive, drawing or programming questions shall be specified along with the syllabus of any subject, if necessary. Model question paper shall be prepared for each subject and made available. This same model question paper along with the syllabus must be sent to the question-paper setter every time for framing the questions. The model question paper shall be made available to students.

It is permitted to have an entirely different pattern of questions especially for subjects involving drawing, design, etc. However, the modified pattern to be followed shall be clearly specified along with the syllabus of the particular subject. All question paper setters should supplement the scheme and key for the evaluation

## **10. Minimum for Pass**

(a) A candidate who secures not less than 40% marks in a subject at the end-semester examinations **and** not less than 50% of the total marks assigned to the subject, shall be declared to have passed the examination in that subject.

**OR**

(b) A candidate who secures in end-semester examination itself, 40% of the total marks assigned to a subject shall also be declared to have passed the examination in that subject.

The total marks assigned to a subject in the above calculations is the sum of maximum marks assigned to the semester-end examination and maximum internal assessment marks of that subject. Candidates will be assigned grades according to the marks scored.

For Seminar, Project, and Viva Voce, the minimum for a pass shall be 50% of the total marks assigned to the respective examination.

If a candidate has passed all examinations of B.Tech. course (at the time of publication of results of eighth semester) except Viva-Voce in the eighth semester, a re- examination for the Viva-Voce should be conducted within two months after the publication of results. Each candidate should apply for this examination within one week after the publication of eighth semester results. If any candidate fails for seminar/project, the candidate has to re-register for the respective semester and can repeat seminar/project retaining the marks secured in other subjects in that semester.

## **11. Credit System**

Each subject shall have a certain number of credits assigned to it depending upon the academic load and the nature and importance of the subject. The credit associated with each subject will be shown in the prescribed scheme and syllabi. Each course shall have an integer number of credits, which reflects its weightage.



## 12. Grading

The university shall award the letter grade to students based on the marks secured by them in both internal assessment and end-semester examinations taken together in the subjects registered. Each letter grade indicates a qualitative assessment of the student's performance and is associated with a specified number of grade points. The grading system along with the grade points for each grade, applicable to passed candidates is shown below. All passed candidate will be allotted a grades S, A, B, C, D, or E according to the total marks scored by him/her.

If a candidate does not pass a subject as per the conditions given in Section (9), he/she will be assigned an Unsatisfactory grade 'U' irrespective of his/her total marks. If a student does not pass a subject in two attempts, the maximum grade he/she can get is 'C' when he/she passes the subject in any subsequent examination, whatever be the marks scored by him/her.

A student is considered to have completed a subject successfully and earned the credits if he/she secures a letter grade other than 'U' in that course. Letter grade 'U' has zero grade point and the candidate has to write the examination again to improve the grade. A student's performance is measured by the number of credits that he/she has earned and by the cumulative grade point average (CGPA) maintained by him/her.

<b>Percentage of total marks scored by the passed candidate, in a subject</b>	<b>Corresponding Grade allotted</b>	<b>Grade Points</b>
90 and above	S	10
80 to below 90	A	9
70 to below 80	B	8
60 to below 70	C	7
50 to below 60	D	6
40 to below 50	E	5
Below 40	U	Failed

For converting CGPA to percentage of marks, the following formula can be used.

$$\text{Percentage marks} = (\text{CGPA} - 0.5) \times 10.$$

### 13. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

- a) A Semester Grade Point Average (SGPA) shall be computed for all the students for each semester, as follows:

$$SGPA = \sum_{i=1}^n \frac{C_i G_i}{C_i}$$

where,  $n$  is the number of subjects registered during the semester,  $C_i$  is the number of credits allotted to  $i^{\text{th}}$  subject as per the scheme, and  $G_i$  is the grade points corresponding to the grade awarded to the student for the subject.

- b) A Cumulative Grade Point Average (CGPA) shall be computed for all the students at the end of each semester by taking into consideration their performance in the present and the past semesters as follows:

$$CGPA = \sum_{i=1}^m \frac{C_i G_i}{C_i}$$

where,  $m$  is the number of courses registered up to that semester,  $C_i$  is the number of credits allotted to  $i^{\text{th}}$  subject as per the scheme, and  $G_i$  is the grade points corresponding to the grade awarded to the student for the subject.

An up-to-date assessment of overall performance of a student is obtained by calculating CGPA. CGPA is weighted average of the grade points obtained in all the subjects registered by the students since he entered the B.Tech course.

- c) Both the SGPA and CGPA shall be rounded off to the second place of decimal and recorded as such for ease of presentation. Whenever the CGPAs are to be used for the purpose of determining the merit ranking in a group of students, only the rounded off values shall be made use of.

### 14. Improvement

Candidates shall be allowed to improve the grade of any two theory subjects. This can be done only in the immediate subsequent chance. If the candidate gets more marks in the improvement chance, marks scored in the improvement chance will be considered for grading in the subject; otherwise marks scored in the first attempt will be retained. No candidate shall be permitted to improve the marks scored in practical examinations and internal continuous assessment.

## 15. Attendance

A candidate shall be permitted to appear for the end-semester examinations only if he/she satisfies the following requirements:

- a. He/she must secure not less than 75% attendance in the total number of working hours in each semester.
- b. He/she must earn a progress certificate from the head of the institution stating that he/she has satisfactorily completed the course of study prescribed in the semester as required by these regulations.
- c. His/her conduct must be satisfactory

It shall be open to the Vice Chancellor to grant condonation of shortage of attendance on the recommendation of the head of the institution in accordance with the following norms.

- The shortage shall not be more than 10%
- Shortage upto 20% shall be condoned once during the entire course provided such shortage is caused by continuous absence on genuine medical grounds.
- Shortage shall not be condoned more than twice during the entire course.

Candidate who is not eligible for condonation of shortage of attendance shall repeat the semester.

Students are eligible for duty leave if they perform certain kinds of duties like representing the college/University in sports and games, etc. on recommendation from faculty members concerned, Head of Institution shall sanction duty leave for the period of absence. The maximum limit of duty leave that can be granted to a student during a semester is 10% of the total number of instructional hours engaged in that semester.

Application for duty leave should be submitted to the Head of Institution preferably before the duty is performed or within ten working days after returning from duty. If duty leave is sanctioned, the student shall meet the faculty members handling classes for him/her in that semester (within 2 weeks after returning from duty), and request them to mark duty leave granted in the record of attendance.

## **16. Registration for each Semester**

Every candidate should register for all subjects of the semester-end examinations of each semester. A candidate who does not register will not be permitted to attend the semester-end examinations; he/she shall not be permitted to attend the next semester.

A candidate shall be eligible to register for any higher semester (i.e. 2<sup>nd</sup> semester onwards if he/she has satisfactorily completed the course of study and registered for the examinations of the first semester). A candidate shall be eligible to register for the fourth to eighth semester if he/she has satisfactorily completed the course of study and registered for the examination of the immediate previous semester. He/she should register for the semester at the start of the semester before the stipulated date. University will notify the starting and closing dates for each semester.

The students need to register for the next semester for continuing his/her studies. A student should have registered for the previous semester University examinations for the registration to the subsequent semester.

A Student who has temporarily discontinued his/her studies shall be permitted to rejoin the course if he/she has to discontinue the course based on medical grounds and he/she should produce the medical certificate issued by a Govt. medical officer specialized in the respective field while rejoining the course. Maternity leave as admissible by the University will be admissible to female students as per the norms of the University in vogue.

## **17. Additional Requirements for the degree**

In addition to the requirement prescribed for the award of B.Tech. degree, each student must earn a minimum 100/ 75 activity points throughout the course duration. A student joining the course from first semester onwards should earn a minimum of 100 activity points, whereas a minimum of 75 activity points are to be earned by Lateral entry students. A record of activity points and documents related to the work done is to be kept by the respective Staff Advisor. Head of Institution should verify this compulsory requirement before permitting the student to register for the eighth semester. The details of extra and co-curricular activities and corresponding activity points are shown in Annexure II.

Students are expected to undertake industrial training(s) of total 5 days minimum duration or industrial visits (to minimum 3 industries) for studying about the industries of importance to the branch concerned during 4<sup>th</sup> to 7<sup>th</sup> semester. Faculty members shall accompany the students for the industrial visits. Each student shall submit detailed bound report(s) of the training/visit to the Head of Department within two weeks after the programme. These bound report(s), signed by the staff advisor or faculty in charge of tour/training/visit and by the head of department, shall also be brought during the final Viva-Voce. 10% of marks of Viva-Voce in

8<sup>th</sup> semester shall be based on the industrial training/industrial visits/paper published by the candidate at national/international level.

## **18. Examination Monitoring Cell**

Head of the each institution should formulate an Examination Monitoring Cell at the institution for supervising all examinations, especially the internal examinations. This cell, with a senior staff member as Convener, shall consist of minimum three members (one shall be a lady). A clerical staff having computer skills shall also be assigned for the examination monitoring cell.

The collective responsibilities of the examination monitoring cell are

- (a) Schedule all end-semester practical examinations as per the course calendar and inform the University two weeks in advance
- (b) Officiate as the examination squad to keep a vigil on all end-semester examinations.

If any malpractices are found/ reported by invigilators, inform these to the Head of Institution along with a report about the incident. Head of Institution shall forward all such complaints to the University.

- (c) Prepare and forward the list of examiners for all end-semester practical examinations to the Head of institution for enabling him to issue appointment letters. Inform the University the list of examiners for practical examinations.
- (d) After closing the semester end examinations conducted at institution level of each semester, fill-up and return the check-list given by the University.
- (e) Schedule all examinations conducted as part of internal assessment of students.
- (f) To receive any complaint from students regarding issues like out-of-syllabus questions, printing mistakes, etc. of end-semester examinations of theory and practical subjects. The cell shall investigate these complaints and if necessary forward it to university with specific comments.
- (g) to receive any complaints from students regarding internal examinations, inquire such incidents, and give a report to the Head of Institution for necessary action.
- (h) In general, to function as an extended wing of the office of the Controller of Examinations of the University, at institution level.

To conduct all the theory examinations, a Chief Superintendent and an Assistant Chief Superintendent should be appointed internally by the Head of Institution. At least one external Additional Chief Superintendent should be appointed by the University as Observer for conducting theory examinations affiliated Engineering Colleges.

## **19. Class Committee**

Head of institution shall take necessary steps to form a class committee for each class at the start of classes of each semester. This class committee shall be in existence for the semester concerned. The class committee shall consist of the Head of Department, Staff Advisor of the class, a senior faculty member of the department, a faculty member from another department, and three student representatives (one of them should be a girl). There should be at least two meetings of the class committee every semester; it shall be the responsibility of the Head of Department to convene these meetings. The decisions of the Class Committee shall be recorded in a register for further reference. Each class committee will communicate its recommendations to the Head of Institution.

The responsibilities of the class committee are:

- (a) to review periodically the progress and conduct of students in the class.
- (b) To discuss any problems concerning any subjects in the semester concerned.
- (c) to identify weaker students of the class and suggest remedial measures.
- (d) To review teaching effectiveness and coverage of syllabus.
- (e) discuss any other issue related to the students of the class.

## **20. Eligibility for the Degree**

No candidate shall be eligible for the B.Tech. degree unless he has undergone the prescribed course of study for a period of not less than four academic years in an institution affiliated to the University of Calicut and has passed all subjects as per the prescribed syllabus **and has earned a minimum of 100 activity points to his credit.**

No candidate under lateral entry scheme shall be eligible for the B.Tech. degree unless he has undergone the prescribed course of study for a period of not less than three academic years in an institution affiliated to the University of Calicut and has passed all subjects of 3 rd to 8 th semesters as per the prescribed syllabus **and has earned a minimum of 75 activity points to his credit.**

## **21. Classification of Successful Candidates**

- a.** A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his course of study and secures not less than a CGPA of 8.00 of all the semesters shall be declared to have passed the B.Tech. degree examination in First Class with Distinction.
- b.** A candidate who qualifies for the degree, passing all the subjects of the eight semesters within 5 academic years after the commencement of his course of study and secures not less than a CGPA of 6.50 of all the semesters shall be declared to have passed the B.Tech. degree examination in First Class.
- c.** All other candidates who qualify for the degree passing all the subjects of the eight semesters and not covered as per Sections 21 (a) and (b) shall be declared to have passed the B.Tech. degree examination in second class.
- d.** Classification of the lateral entry student can be given based on the CGPA of 3<sup>rd</sup> to 8<sup>th</sup> semesters. The final mark-list of lateral entry students should indicate that (i) the student was admitted through lateral entry scheme (ii) classification is based on CGPA of 3<sup>rd</sup> to 8<sup>th</sup> semesters. He/she should have passed all the subjects of the 3<sup>rd</sup> to 8<sup>th</sup> semesters within 4 academic years after the commencement of the course of study.
- e.** A Certificate of Excellence will be issued to top 5% of the number of students in eighth semester of each branch in the University, based on their aggregate CGPA of the B.Tech course. These students should have passed all the subjects of B.Tech course within 4 academic years after the commencement of their course of study: for lateral entry students this maximum period for passing the course shall be 3 years. Based on the aggregate CGPA, top 5% of the candidates in each branch shall be issued a certificate of excellence.

## **22. Grievance Redressal Cell**

- Each college should setup a Grievance Redressal Cell with at least four faculty members to look into grievances of the students, pertaining to end semester examinations if any.

## **23. Anti-Ragging Cell**

Head of Institution shall take necessary steps to constitute anti-ragging committee and squad at the commencement of each academic year. The committee and the squad shall take effective steps as specified by the Honorable Supreme Court of India, to prevent ragging.

*Notwithstanding all that has been stated above, the University has right to modify any of the above regulations from time to time as per University rules.*



## Annexure I

### Equivalency of Diploma Streams for Full-Time B.Tech. Admission

Sl. No.	Specialization in Diploma	Branch Equated for B.Tech. Admission
1	Applied Electronics	Electronics and Communication Engineering
2	Electronics	
3	Medical Electronics	
4	Electronics and Avionics	
5	Telecommunication Technology	
6	Electronics and Instrumentation	
7	Electronics and Medical	
8	Electronics Production Technology	
9	Medical Instrumentation	
10	Power Electronics	
11	Biomedical Engineering	
12	Civil	Civil Engineering
13	Architecture	
14	Quantity Survey and Construction	
15	Mechanical	Mechanical Engineering
16	Automobile	
17	Tool and Die	
18	Wood and Paper Technology	
19	Computer Engineering	Computer Science and Engineering / Information Technology
20	Computer Application and Business	
21	Computer Hardware Maintenance	
22	Information Technology	
23	Electrical	Electrical and Electronics
24	Instrument Technology	
25	Printing Technology	Printing Technology
26	Mechanical	
27	Packaging Technology	
28	Automobile Engineering	
29	Electronics Engineering	

## Annexure II

Activities that a student can engage in and the maximum quantum of points that can be earned from them are listed below.

### *i) National Level Activities*

<i>Code</i>	<i>Name of activity</i>	<i>Max. Activity Points</i>	<i>Minimum Duration</i>
NA1	N S O	70	Two Semesters
NA2	N C C	70	Two Semesters
NA3	N S S	70	Two Semesters

### *ii) College Level Activities*

CA1	Active Member/Office bearer of Professional Societies (Student Chapters)	30/40	Four Semesters
CA2	Elected Office bearer of Student forums	30	Two semesters
CA3	Member/Captain- College Athletic/ Games teams	20/30	Two Semesters
CA3	Executive Member of Student Clubs	20	Two Semesters
CA4	Volunteer for important College functions	20	Two Semesters
CA5	Committee member/ Organizer of Tech Fest/ Cultural Fest/ Conference	20/30	Two Semesters
CA6	Placed within top three in Paper presentation/debate/ cultural competitions etc	30	
CA7	Placed within top three in State level Sports/Games	30	

Additional 20 points to be given for CA3/CA7 if the achievement is at the national level.

### *iii) Entrepreneurship*

EA1	Any Creative Project execution	40
EA2	Awards for Projects	60
EA3	Initiation of Start-ups	60
EA4	Attracted Venture Capital	80
EA5	Filed a Patent	80
EA6	Completed Prototype Development	80

### *iv) Self Initiatives*

SA1	Attend a National Conference	20
SA2	Attend an Int. National Conference	30
SA3	Published/got an Award for a technical paper.	30/40
SA4	Organiser of student technical Conf/Competition	30
SA5	Foreign language skills	50
SA6	Online courses taken & completed	Maximum 50; 10 per week of duration

