

HKE SOCIETY'S

**PDA COLLEGE OF ENGINEERING, KALABURAGI**

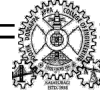
(Autonomous Institute Affiliated to VTU, Belagavi)

## **ACADEMIC RULES AND REGULATIONS**

Governing the Degree of Bachelor of Engineering (B.E.)

Applicable to all Autonomous B.E. Undergraduate Programmes

(With Effect from 2022-23 Academic Year)





## **1. PREAMBLE**

Poojya Doddappa Appa (PDA) College of Engineering Kalaburagi affiliated to Visvesvaraya Technological University (VTU), Approved by AICTE New Delhi and funded under TEQIP, is one of the oldest and reputed Institutes in the state of Karnataka. The college was established in the year 1958, and it is the first Engineering College in the Kalyana Karnataka area. Recognizing the excellent facilities, faculty progressive outlook, high academic standards and record performance, the Government of Karnataka and Visvesvaraya Technological University Belgaum, reposed abundant confidence in the capabilities of the College, and conferred Autonomous Status from the academic year 2007-08, to update the curricula and introduce new Programs and to devise and conduct examinations.

The academic autonomy has provided a golden opportunity for the College to emerge as a leading technical institute in the country by not only meeting the current challenges faced by the technical education system in our country, but also formulating the curriculum that meets the global requirements.

### **VISION OF THE INSTITUTE**

To be an institute of excellence in technical education and research to serve the needs of the industry and society at local and global levels

### **MISSION OF THE INSTITUTION**

- To provide a high-quality educational experience for the students with values and ethics that enables them to become leaders in their chosen profession.
- To explore, create and develop innovations in engineering and science through research and development activities.
- To provide beneficial service to the national and multinational industries and communities through educational, technical and professional activities.



## 2. SHORT TITLE AND COMMENCEMENT

**2.1** The regulations listed under this head are common for all Programs offered by the college and are amended based on the **Visvesvaraya Technological University Guidelines and norms for Implementation of Academic Autonomy in institutions (2018) Amendments in 2022** and Guidelines for the implementation of National Education Policy 2020. These regulations shall be effective from academic year 2022-23.

**2.2** The regulations are subject to amendments made by the Academic Council with the approval of the BOG of the college from time to time, and keeping the recommendations of the Board of Studies in view and affiliating university.

**2.3 University:** Visvesvaraya Technological University (VTU), Belagavi.

**2.4 College/Institute:** Poojya Doddappa Appa College of Engineering (PDACE), Kalaburagi.

**2.5 Commission:** University Grants Commission (UGC).

**2.6 Council:** All India Council for Technical Education (AICTE).

## 3. DEFINITIONS OF KEY WORDS

**3.1. Academic Bank of Credits (ABC) :** The Academic Bank of Credits (ABC), is a national-level facility which will promote the flexibility of the curriculum framework and interdisciplinary/multidisciplinary academic mobility of students across the Higher Education Institutions (HEIs) in the country with appropriate “credit transfer” mechanism.

**3.2. Academic Year:** Refers to two consecutive semesters (odd followed by an even) sessions, including intervening periods.

**3.3. Choice Based Credit System (CBCS):** The CBCS provides students with choices from the prescribed set of courses viz. Engineering Sciences, Professional core and electives, Professional and Open Electives, Non-Credit Mandatory Courses, Internships and Skill Courses. Under the CBCS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.

**3.4 Course:** Usually referred to as ‘subject’/ ‘paper’ and is a component of a Programme with defined learning objectives, course outcomes and number of credits. The course credits vary depending on the required teaching-learning hours to accomplish the learning outcomes, specified in the course syllabus. A Course may be designed to comprise lectures / tutorials/laboratory work/ fieldwork/outreach activities/ project work/ vocational training/visa-voce/ seminars/term papers/ assignments/ presentations/ self-study components etc., or a combination of some of these.



**3.5 Course Code:** An alpha numeric code used to uniquely identify a *course* in the programmes offered by the Institute. Six-digit number with first two digits refers the year followed by program code with two digit code for identifying the level of the course in the program. Digit at Thousand's and hundred's place signifies the program code and digit at ten's place refers the semester in which course is offered and the unit place represents the sequence number in a semester in the Scheme of Teaching and Evaluation.

**3.6 Credit:** Refers to a unit or weightage by which the Coursework is measured. It represents the number of hours of instructions prescribed per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork etc., per week.

**3.7. Credit Point:** This is the product of grade point and the number of credits for a Course.

**3.8. Credit Representation:** Refers to the Credit Values for different academic activities considered, as per Table-1. Credits for the seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.

Theory/Lecture (L) Hours/Week/Sem	Tutorials (T) Hours/Week/Sem	Lab/Pract(P) Hours/Week/Sem	Credits L : T : P	Total Credits
4	0	0	4 : 0 : 0	4
3	0	2	3 : 0 : 1	3
2	2	2	2 : 1 : 1	4
3	0	0	3 : 0 : 0	3
2	2	0	2 : 1 : 0	3
2	0	2	2 : 0 : 2	3
0	0	6	0 : 0 : 3	3
2	0	0	2 : 0 : 0	2
1	0	0	1 : 0 : 0	1
0	0	2	0 : 0 : 1	1

**3.9 Continuous Internal Evaluation (CIE) :** (Also known as Formative Assessment): Refers to the evaluation of student's performance in the course during the teaching-learning process. CIE shall be done by the faculty teaching course and evaluation components may include tests, assignments, group discussion, quizzes, course-specific projects, field surveys, seminars, etc., conducted during the semester tenure with a weightage for different activities as specified by the Institution / University.

**3.10. Course Evaluation:** Represents the measurement of the impact of the teaching-learning process and offers an opportunity for improving the quality of learning in courses and teaching perfor-



mance. Courses evaluation is done by adopting different methods such as tests, quizzes, assignments, etc., during the teaching-learning period at the end of some modules or chapters of syllabus contents and at the end of the semester. While the former part of the evaluation is called the Continuous Internal Evaluation (CIE) and the later part of the evaluation is called Semester End Evaluation (SEE).

**3.11 Course Registration:** Refers to formal registration to Courses of study in every semester by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor, Class teacher, etc.), in the Institution to maintain the proper record, registration for the courses of study is mandatory.

**3.12 Cumulative Grade Point Average (CGPA):** This is a measure of the cumulative performance of a student of all semesters and is computed from the 2nd semester onwards. It is a measure of the overall cumulative academic performance of a student over the entire span of the academic program. CGPA is not an arithmetic mean but weighted mean. It is also a number that lies between 0 and 10.

**3.13 Dean:** Dean of the Faculty of Engineering

**3.14 First Attempt:** Refers to some students who have studied in a current semester and have attended any one of the examinations of that semester after satisfying attendance and CIE requirements of all the prescribed courses of that semester and registering for SEE. Such an attempt shall be considered as the first attempt. Even if students absent themselves for all the semester examinations after registering for SEE, such an attempt shall also be considered the first attempt.

**3.15. Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester-end examination. The grade card shall have the Program details (Course code, title, number of credits, grades secured along with the SGPA of that semester and CGPA (except for the first semester) earned till that semester.

**3.16. Grade Point (GP):** Refers to a numerical weightage allocated to each letter grade on a 10-point scale against a range of percentage of marks secured by students in a course.

**3.17. Institution:** An institution of higher education engaged in teaching and research at the undergraduate, post-graduate or higher levels.

**3.18. Letter Grade:** Course Letter Grade (or simply letter grade or grade) is an index of performance of a student in a said *course* and refers to a qualitative measure of achievement



of a student in each course, based on the percentage range of marks secured in CIE and SEE put together or CIE alone. Grades are denoted by letters O, A+, A, B+, B, C, P and F. The rubrics attached to letter grades are as follows: O: Outstanding, A+: Excellent, A: Very Good, B+: Good, B: Above Average, C: Average, P: Pass and F: Fail. Additional letter grades used under special circumstances are, DX: Attendance below 75%, AU: Satisfactory in an Audit course, AB: Absent for the Course, PP: Passed in N on-credit course, NP: Not Passed in Non-credit course, W: Dropped/ withdrawn.

Level	Out Standing	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Grade	O	A+	A	B+	B	C	P	F
Grade Points	10	9	8	7	6	5	4	0
Score (Marks) Range %	90-100	80-89	70-79	60-69	55-59	50-54	40-49	0-39

**3.19 Non-Credit Mandatory Course (NCMC):** In the case of non-credit mandatory courses, students shall attend the classes during the respective semesters to satisfy the attendance requirements and as well as CIE requirements. In case, any student fails to register for the said course/fails to secure the minimum 40% of the prescribed CIE marks, he/she shall be deemed to have not satisfied. In such a case, the student has to fulfill the requirements during subsequent semester/s to appear for CIE. These Courses shall not be considered for CGPA calculation and vertical progression, but completion of the courses shall be mandatory for the award of degree

**3.20. Major Degree: A** Major degree will be awarded along with “Honours” distinction if a student completes the specified additional number of credits during the regular programme as per the Regulations governing Honours Degree Programme. A student admitted to the Programme shall be eligible to register to “Honours” programme if he/she fulfils the conditions as per the Regulations. (Refer Annexure - VI)

**3.21. Mentor:** A Faculty Advisor allotted by the principal to guide about 15-20 students about their registration to the courses and progression in the Programme .

**3.22. Notification:** A notification issued by the concerned Principal / Dean of the Institution.

**3.23. Minor Degree: A** Degree along with Minors is awarded in a programme if a student *complete* the required number of credits of another programme as per the Regulations governing Minor Degree Programme. A student shall be eligible to register Minor Degree if he/she fulfills the conditions as per the Regulations (Refer Annexure - VI)



**3.24. Multiple Entry and Multiple Exit (MEME):** The multiple entries and exit points in the academic programmes would remove rigid boundaries and create new possibilities for students. To facilitate flexible learning within the stipulated period (eight years for regular students and 06 years for lateral entry students), multiple- entry and multiple-exit options are offered to the needy students.

**3.25. Passing Standards:** Refers to passing the course only when GP is greater than or equal to 4

**3.26. Principal:** Head of the College / Institute

**3.27. Programme:** A planned series of events/activities comprising of a combination of courses leading to the award of degree.

**3.28. Semester:** One of the two sessions of an Academic Year; each session being of sixteen weeks duration (with not less than 90 working days). The odd and even semesters shall be as per the University academic calendar.

**3.29. Semester End Examinations (SEE):** (also called Summative Assessment): Refers to the examinations conducted by the University covering the entire course syllabus. For this purpose, syllabi shall be modularized, and SEE questions shall be set from each module as specified by the University.

**3.30. Semester Grade Point Average (SGPA):** It is a measure of academic performance of a student in a semester. It is the weighted average or weighted mean of the grade points obtained by a student in the various courses of any semester. It results in a number that lies between 0 and 10. It shall be expressed up to two decimal places.

**3.31. Teacher:** A member of the regular faculty at the levels of Professor, or Associate Professor or Assistant Professor, and includes adjunct faculty and faculty on a long-term contract of not less than three years.

**3.32. Transcript, Grade Certificate and Grade Card:** Grade card shall be issued to candidates indicating the programme details (Course code, title, number of credits, grade secured and grade points) for all the registered courses after every semester. On successful completion of all courses/earning credits, specified in a semester, the grade certificate is issued indicating the programme details along with SGPA of that semester and CGPA earned till that semester. Transcripts to the successful candidates shall be issued after completion of the programme.





## **4. Title and Duration of the Program**

### **4.1 General**

- a) The Academic Autonomy is applicable for all Programs offered by the college: B.E. Degree Programs at Undergraduate (UG) and M. Tech. Program at Post Graduate (PG). The Programs fulfill the minimum academic quality and standards for the award of Degrees prescribed by the University, the Council and the Commission.
- b) The Academic Autonomy provides an opportunity to the college to make schemes of instruction, syllabi, scheme of examinations and other aspects, with approval of its Academic Council, while fulfilling the minimum academic standards of the University for the Award of Degrees.
- c) The College has the freedom to start Diploma (post- polytechnic) Diploma, post-UG and post-PG levels) and/or Certificate Programs with the approval of its Academic Council. The issuance of certificates/diplomas on completion of such Programs shall be made under the seal of the concerned College only.
- d) The College has the freedom to evolve methods for assessing the students' performance, notifying the results, issuing the grade cards/transcripts, migration and other certificates except the Degree Certificates.
- e) In order to get the various benefits of academic autonomy, the College structures its various academic Programs based on the Semester Scheme by introducing Credits for academic activities, bring in Examination Reforms for better achievement, award Letter Grades and Numerical Grade Points/ Averages for students' performance and set appropriate Passing Standards as covered later in these Regulations.
- f) Following the guidelines recommended by the University, with regard to Semester Scheme, Credit System, Examinations, Letter Grades and Numerical Grade Points/Averages, enables students to avail of horizontal/ vertical mobility and transfer of credits from one Autonomous College to another and related benefits of academic autonomy.

**4.2:** The Programme of study, which is an undergraduate Programme, shall be called the degree of Bachelor of Engineering, abbreviated as B.E., followed by specialization indicated within brackets.

**4.3:** The duration of the Programme for B.E. degree shall be four academic years, organized in eight semesters, with each semester having duration of 16-18 weeks, having provision for Multiple-Entry-Multiple-Exit and award of Honours degree or Minor degrees.



#### 4.4. Under Graduate (UG) Level

The UG courses in engineering shall be called as degree courses in Bachelor of Engineering abbreviated as B.E. The course will extend over a period of four years duration, which will be divided into eight semesters. The branches of engineering will be indicated in brackets after the abbreviations as required by the AICTE and UGC. Typical examples are B.E.(Civil Engineering) and B.E.(Mechanical Engineering).

The following are the B.E. degree Programs offered by the college.

Sl.No.	Name of the Program	Abbreviation	Established
1.	Civil Engineering	CV	1958
2.	Mechanical Engineering	ME	1958
3.	Electrical & Electronics Engineering	EE	1958
4.	Electronics & Communication Engineering	EC	1967
5.	Industrial & Production Engineering	IP	1981
6.	Electronics and Instrumentation Engineering	EI	1982
7.	Ceramic and Cement Technology	CC	1984
8.	Computer Science and Engineering	CS	1984
9.	Automobile Engineering	AU	1985
10.	Information Science and Engineering	IS	2000
11.	Computer Science and Design	CG	2021
12.	Artificial Intelligence and Machine Learning	AI	2021

#### 4.5. Post Graduate (PG Level)

The PG courses in engineering shall be called as degree courses in Master of Technology abbreviated as M. Tech. The specialization of a PG course will be indicated in brackets after the abbreviations as required by the AICTE and UGC. Typical examples are M. Tech. (Power Electronics) and M. Tech. (Production Engineering).



The following are the M. Tech Programs offered by the college.

Sl.No.	Department	Name of PG Program	Abbreviation	Established
1.	Civil Engineering	Structural Engineering	CSE	1987
2.		Environmental Engg.	CEE	1982
3.	Mechanical Engineering	Thermal Power Engg.	MTP	1982
4.		Production Engineering	MPE	1992
5.	Electrical Engineering	Power Electronics	EPE	1982
6.	Electronics and Communication Engg.	Communication Systems	LCS	1998
7.	Computer Science & Engineering	Computer Science & Engineering	SCS	1998
8.		Computer Network & Engineering	SCN	2014
9.	Electronics and Instrumentation Engineering	Bio Medical and Industrial Instrumentation	LMI	2000
10.	Ceramic and Cement Technology	Material Science and Technology	MST	2014

#### 4.8 Prescribed Number of Credits for the Program

- The total number of credits to be earned by students admitted to the first semester of 04 years B.E. the program shall be 160.
- The total number of credits to be earned by students admitted to the third semester of 04 years B.E./B.Tech., program under lateral entry scheme shall be 120.
- A student shall be eligible to obtain an Undergraduate degree with Honours / Minors, if he/she earns minimum additional 18 credits, as specified by the norms from time to time regarding the earning of additional credits [To be read along with Regulations Governing the Award of Honors/ Minors in B.E./B.Tech., Degree Programs].

The total number of credits to be earned by a student to qualify for the Degree award from each Autonomous College is as given in below Table .



**Total number of Credits to be earned for award of Degree**

Programme		Normal Duration		Total number of credits
		Years	semester	
U.G. Degree	B.E.	04	08	160
	B.E. (Lateral)	03	06	120

**4.9.** The annual academic calendar of events in respect of the Programme of study approved by the Academic Council, shall be notified at least a month before the commencement of each academic year. It is mandatory for students/ faculty members to strictly adhere to the Academic Calendar for completion of academic activities. Academic Calendar shall be displayed on the Academic Office homepage of the University website.

**4.10.** The College offers Doctor of Philosophy (Ph.D) under University. The research centres recognized by the University are listed in below table.

Sl. No.	Name of the Research Centre	Established
1.	Civil Engineering	2002
2.	Mechanical Engineering	2011
3.	Electrical & Electronics Engineering	2006
4.	Electronics & Communication Engineering	2002
5.	Industrial & Production Engineering	2005
6.	Electronics and Instrumentation Engineering	2012
7.	Ceramic and Cement Technology	2012
8.	Computer Science and Engineering	2012
9.	Automobile Engineering	2013
10.	Information Science and Engineering	2013
11.	Mathematics	2013
12.	Chemistry	2013
13.	Physics	2020



## 5.0. ACADEMIC ELIGIBILITY FOR ADMISSION

The rules specified in the following clauses shall be followed for admission to B.E./ B.Tech. Programmes, but the orders issued from the Government/the regulatory bodies from time to time shall prevail.

**5.1 . Admission to 1<sup>st</sup> year:** Eligibility for candidates Passed in second PU C or equivalent,

- 1) As notified by the Government of Karnataka from time to time.
- 2) Those students, who have passed a qualifying examination other than the PUC II examination of the Pre- University Education Board of Karnataka, have to obtain an eligibility certificate for seeking admission to I year B. E./B.Tech. Degree Programme from the University.

**5.2. Admission to 2<sup>nd</sup> year (Lateral Entry):** Eligibility for candidates who have passed a 3-year Diploma in Engineering and B. Sc. Degree shall be,

- 1) As notified by the Government of Karnataka and the University from time to time for admission in to 3<sup>rd</sup> semester of B. E./B.Tech. degree programme.
- 2) Those candidates who have completed an Engineering Diploma from States other than Karnataka shall submit the Equivalence/ Eligibility Certificate issued by the Director of Technical Education, Karnataka.

**5.3. Qualification earned from foreign Countries:** With regard to the qualification earned from foreign countries, an equivalence certificate from the Association of Indian Universities/ University is mandatory for admission to B. E./B.Tech. Programmes. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University in this regard shall be final and binding on all concerned.

**5.4. Additional Requirements:**

- 1) All the Diploma and B,Sc. degree holders seeking admission to lateral entry, shall also pass any deficit courses as specified by the University before the completion of the degree.
- 2) Further, all the Diploma and B.Sc. degree holder applicants shall also be required to register and pass the non-credit mandatory Mathematics bridge course(s) specified by the University, within two year of joining the programme. However, applicants with B.Sc. degree (with Mathematics major) may apply to the Registrar through Principal/ Dean seeking exemption from the bridge course.



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## 6.0 CURRICULUM FRAMEWORK AND ACADEMIC PROCESSES

### 6.1 Semesters - Odd and Even:

The University follows the Choice based credit system and the semester scheme.

There are two regular semesters in an academic year. The semester that begins in August (August to December) is known as the Odd Semester and the semester that begins in January (January to May) is known as the Even Semester.

### 6.2. Curriculum:

Every Programme has a prescribed course structure which, in general terms, is known as the Curriculum or the Courses of Study or the Scheme of Teaching and Evaluation. It prescribes all the courses/ laboratory/ other requirements for the degree and sets out the nominal sequence semester wise.

It provides the syllabus and a list of text/ reference books (or other learning material sources) for each course. The Courses of Study details are updated every semester and are made available at the University website: <http://vtu.ac.in/BEBTECH/>. Curriculum shall also include some Online Courses including SWAYAM and other MOOC courses, approved by the University. However, selection of such courses, if any, shall always be within prescribed guidelines of the relevant regulatory bodies and the University.

#### 6.2.1. Choice Based Credit System (CBCS):

- 1) A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of B.E/B.Tech. degree in the different available specialization areas. A student earns credits by satisfactorily completing courses/other academic activities every semester.
- 2) The credits are distributed semester wise, as prescribed in the Scheme of Teaching and Evaluation for each of the programmes. The courses generally progress in sequences, building competencies as per the course learning outcomes. The positioning of a course indicates certain academic maturity on the part of the students.
- 3) Some courses do, in addition, may specify a grade/pass/exposure for other courses, offered earlier in the programme, as pre-requisites for the *course*.
- 4) Since the University follows the CBCS, the students shall be offered courses as per the Scheme of Teaching and Evaluation, and the students are required to register for the courses of their choice before the beginning of every semester. Students are required to follow the semester wise schedule of courses specified in Scheme of Teaching and Evaluation; they ego, however; have freedom to follow alternative schedules to optimize their academic profile with additional courses,



keeping the requirements for each course in mind. For students with backlog courses, such rescheduling may even become necessary. Such departures from suggested schedules need to be done very carefully, and always with guidance from the Mentor.

### **6.2.2. Types of Courses:**

There will be following types of courses in a B. E./B. Tech. programme, namely:

- 1) Humanities and Social Sciences (H S), including Management, Skill enhancement and Economics.
- 2) Basic Sciences (BS) including Mathematics, Physics, Biology and Chemistry.
- 3) Engineering Sciences (ES) including Workshop, Drawing, Basics of Electrical/ Civil/ Mechanical/ Computer Engineering, Materials, and Instrumentation.
- 4) Professional Core Courses (PC): These are the courses to be compulsorily studied by a student as a core requirement to complete the requirements of a programme in a said discipline of study.
- 5) Professional Elective Courses (PE): These are the courses from which a student can choose and as part of the requirement to complete the programme in a said discipline of study.
- 6) Open Elective Courses (OE): These courses are supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline/ domain and they are chosen from the pool of courses.
- 7) Skill development Courses (SD): These courses will be nurturing student proficiency skills. These courses are offered to achieve the programme outcomes not specifically covered by the other courses.
- 8) Ability Enhancement Courses (AE): These are the generic skill courses which are basic and needed to all to ensure progression across all careers.
- 9) Non-Credit Mandatory Courses (NM): These are the courses on peripheral subjects in a programme, wherein familiarity is considered mandatory.
- 10) Project work (PW), Mini Project work (M P), and Internship (IS) are also considered as courses in the programme.

### **6.2.3 Offering Courses**

The above types of courses in a B.E./B. Tech. programme are offered as follows:

- 1) Humanities and Social Sciences (HS) courses will have 1 to 3 credits per course.
- 2) Basic Sciences (BS) courses will have 2 to 4 credits per course.
- 3) Engineering Sciences (ES) courses are common across all disciplines and will have 2 to 4 credits per course.
- 4) Professional Core Courses (PC) will have 2 to 4 credits per course.
- 5) Professional Elective Courses (PE) will have 2 to 4 credits per course.
- 6) Open Elective Courses (OE) may have 2 to 4 credits per course.



- 7) Skill development Courses (SD) and may have 1 to 3 credits per course.
- 8) Ability Enhancement Courses (AE) may have 1 to 2 credits per course
- 9) Non-Credit Mandatory Courses (N M) require only a pass in each of the specified courses to qualify for the award of the Degree.
- 10) Project work (PW), Mini Project work (MP) and Internship {IS} are offered which may have 10, 3, and 6 credits respectively.

The courses in the above types may be a combination of Lectures, Tutorials and Practical in any combination with suitable credits assigned to them. All the courses registered by a student under any of the above types of courses as required for award of the degree shall be considered as heads of passing which shall be Graded according to his/her performance. However, the Non-Credit Mandatory Courses shall be passed by a student for which Grades are not assigned.

**The following procedure shall be used for designing and offering the above courses:**

The courses for a programme under the following types from (a) to (1) shall be designed within the framework of UGC and AICTE guidelines by the concerned Board of Studies and approved by the Academic Senate of the University. The number of courses offered in a programme under each of the above types shall be decided as per the curriculum framework specified under clause **6.7**

The list of different types of theory courses and details of the practical courses used in the programmes are given below respectively from (a) to (i) and (j) to (l).

- (a) Humanities and Social Sciences
- (b) Basic Sciences
- (c) Engineering Sciences
- (d) Professional Core Courses
- (e) Professions Elective Courses
- (f) Open Elective Courses
- (g) Skill development Courses
- (h) Ability Enhancement Courses
- (i) Non-Credit Mandatory Courses

**(j) Project work:**

Based on the ability/abilities of the student/s and recommendations of the mentor, a disciplinary or an inter-disciplinary major project can be assigned to a group having not more than 4 students.





The main project work needs to be taken up within the institute/ research laboratory/industry. It is desirable, that the outcome of the project work may be published/patented.

**(k) Mini Project work:**

A Mini Project is a laboratory/ societal/ Industry-oriented work that will provide a platform for students to enhance their practical knowledge and skills through the development of small systems / applications based on the ability/abilities of the student/s and recommendations of the mentor, a disciplinary or an inter-disciplinary mini-project can be assigned to a group having not more than 4 students.

**(i) Internship:**

The internship is an extended period of work experience undertaken by the students aspiring to supplement their degree with professional development. The students are allowed to prepare themselves for the workplace and develop practical skills. The Internship shall be completed during the period specified in the Scheme of Teaching and Evaluation.

The institution shall encourage students to take up,

- i) an inter-disciplinary Research Internship or Industry internship and
- ii) a rural internship, a work-based activity carried out to learn practical experiences in rural areas, for the upliftment of living standards.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship in their home town (within or outside the state or abroad), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide.

Institute shall not bear any cost involved in carrying out the internship by students.

**6.2.4 Audit Courses:**

A student desirous of additional exposure to a course, without the rigors of obtaining a good grade, 'audits' a course. The minimum requirement of attendance for an Audit Course' is 75%, with any additional requirements as set by the instructor such as submission of assignments and minimum performance in some of the in-semester evaluations. Auditing of courses during regular semesters from 3rd semester onwards is permitted under the following conditions:

- 1) Students with CGPA > 6.0 will be permitted to Audit' a course. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor is required.



- 2) Audit courses would be restricted to a maximum of two (2) courses per student in the entire period of the programme.
- 3) The Course Teacher would award the 'AU' grade, if the attendance is satisfactory and additional requirements, as set out by the Course Teacher, are met. If the attendance and performance in additional requirements is not satisfactory, the Course Teacher will award 'No Grade'. The grade 'AU' does not carry any grade points and therefore does not figure in SGPA/ CGPA calculations.
- 4) The course successfully completed in Audit mode will be reflected in the Semester Grade card and the Transcript as Audit Course.

### **6.3 Prescribed Number of Credits for the Programme**

All courses prescribed by the college, except the Non-credit Mandatory courses shall have credits and be considered as a head of passing for vertical progression. The credits fixed for the courses are awarded to the students on passing the courses registered by him.

- 1) The total number of credits to be earned for the award of B.E./ B.Tech. degree by students admitted to the first semester of the four year B.E./B.Tech. programme shall be 160.
- 2) The total number of credits to be earned for the award of B.E./ B.Tech. degree by students admitted under lateral entry scheme to the third semester of the four year B. E./B.Tech. programme shall be 120.
- 3) A student shall be awarded B.E./ B.Tech. *degree* with Honours or Minor, if he/she earns a minimum of additional 18 credits, satisfying the conditions specified by the college (Award of B. E./B.Tech. Honors / Minors Degree) **Regulations, 2022**.



#### 6.4. Curriculum Framework

The structure of U G programme in Engineering shall have essentially the following types of courses with the breakup of credits as shown against them

Sl.No.	Course category	VTU	PDACEK	% of total Credits
1.	Humanities, Social Sciences and Management (HSMC)	10	10	6.25%
2.	Basic Sciences (BSC)	24	24	15%
3.	Engineering Sciences (ESC)	24	24	15%
4.	Ability Enhancement Course	07	07	4.5%
5.	Professional Courses (PCC)-Courses	54	54	33.75
6.	Professional Courses (PEC) - Elective	12	12	7.4%
7.	Other Open Elective Courses (OEC)	09	09	5.6%
8.	Project Work(PROJ)/Seminar/Internship	20	20	12.5%
9.	Mandatory Courses Inudction Program, NSS Physical Education, Yoga	(non -credit)		0.00
		160	160	100%



## 6.5. Scheme of Teaching and Evaluation

1. The Scheme of Teaching and Evaluation shall be framed by distributing the total credits over eight semesters as follows:

Year	Semester	Credits	Total Credits	
I Year	1	20	40	Lecture (L): One Hour/week : 1 Credit Tutorial(T): Two Hrs/week : 1 Credit Practical / Lab /Drawing (P): Two Hrs/week : 1 Credit Project, Mini-Project, Internship: Credit as recommended by the Institute. Credit for the Seminars shall be part of the course.
	2	20		
II Year	3	20	40	
	4	20		
III Year	5	22	40	
	6	18		
IV Year	7	24	40	
	8	16		
TOTAL		160		

### 2. Course Load

Every student to register for a set of Courses in each Semester, with the total number of their Credits being limited by considering the permissible weekly Contact Hours (typically: 35 hours/Week); For this, an average Course Load of 18-24 Credits/Semester (e.g., 6-7 Courses) generally acceptable; to also include 2 or 3 Units of Non -Credit Mandatory Courses in some Semesters.

### 3) Teaching-Learning Process

The theory courses shall be designed to have the syllabus spanning over one semester depending on the credits allocated for them. That is, Four-credit theory courses shall be designed to 55-60 hours of Teaching-Learning process, Three-credit theory courses shall be designed for 40 -45 hours of Teaching-Learning process, Two- credit theory courses shall be designed for 25-30 hours of Teaching- Learning process and One credit theory course shall be designed for 15 hours of Teaching- Learning process.

4)The Scheme of Teaching and Evaluation provides the list of courses offered in a semester; their types, course credits in L-T-P format and the contact hours. As per this, detailed syllabus content, hour distribution, Text and reference Books, Assessment and Evaluation procedure shall also be



provided for all the semesters by the Board of Studies of the respective programmes. A course may include online references and virtual labs as approved by the college.

5)The composition of courses in the curriculum may be only a theory, a theory with practical or only a practical. These carry separate course codes and each are considered as separate “head of passing”.

6)The Syllabus formulated shall be well structured and enable CBCS implementation, provide MEME options and incorporate Outcome Based Education (OB E) frame work.

7)The Colleges shall provide necessary class rooms, Laboratory equipment’s, Internet and computing laboratories, Library, qualified faculty and other supporting facilities to meet the standards as specified by the University and concerned Statutory bodies to create proper teaching-learning environment for the students.

#### **6.6. Course Registration**

**1.** In order to maintain a proper academic record at the Institution, every student shall register for courses (core or elective) to earn credits for meeting the requirements of a Degree/ Diploma/ Certificate Program under the supervision of a Faculty Advisor (also called Mentor, Counselor, class teacher, etc.,) at the beginning of each semester. Such courses together with their grades and the credits earned shall be included in the Grade Card issued by the College at the end of each semester, like odd, even, Supplementary and it forms the basis for determining the student’s academic performance in that semester

#### **2) Student Mentoring**

On joining the College, a group of students are assigned a Mentor from the concerned department offering the Programme. Students are advised to consult the Mentor on any matter relating to their academic performance and the courses they may register in various semesters. Mentor guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner.

#### **3) Minimum Number of Registrations for Offering a Course:**

There is no restriction on minimum registrations in a professional core course. However, the minimum number of students registered to any Professional Elective Course/Open Elective Course/ Ability Enhancement Course (from 3rd semester onward) offered by the Departments shall not be less than ten. In such cases, if the number of registrants for the elective course is less than 10, the department must seek permission from the Principal within 15 days from the date of commencement of the semester as per the academic calendar of the University, if that Professional Elective Course/ Open Elective Course/ Ability Enhancement Course is to be offered in that college.



### **6.6.1. Course Registration Procedure:**

- 1) The procedure involves the following steps:
  - a) A student shall register for required courses each semester with prior permission of the Mentor.
  - b) The student can register for courses he/she intends to take during a given semester on the basis of their plan for each Programme, as given in the Scheme of Teaching and Evaluation as per the advice of the Mentor.
  - c) The students shall decide on the courses to be registered during the ensuing semester immediately after their SEE examinations.
  - d) The Mentor is expected to discuss with the student his academic performance during the previous semesters and then decide the number and nature of the courses for which the student can register during the semester within the framework of the Regulations.
  - e) The Mentor may advise the student to drop one or more courses/activities based on his academic performance. The Mentor may even advise a reduced load program over several semesters for students with poor performance at the end of the first semester/year.
  - f) Every student is permitted to register for the courses to an extent subjected to the conditions under clause **6.6.2.**
  - g) Students are not permitted to register for a course, which they have already passed.
  - h) The student shall fill up the CRF, stating the courses that they propose to complete during the ensuing semester as per the prescribed curriculum.
  - i) They shall take a print out of the completed CRF, take signature of the Mentor and submit to the Dean/ Principal within the date notified by the College for registration.
  - j) Students having outstanding dues to the College, or a hostel may not be permitted to register.
  - k) The registration is deemed to be complete only on approval by the College.
  - l) Without registration, any academic activity (course/seminar etc.) undergone by a student will not be counted towards the requirements of his/her degree.
  - m) A student shall exercise the option in respect of a higher semester Professional Elective Course/Open Elective Course/Ability Enhancement Course and register for the same at the end of the previous semester. However, the student may be permitted to opt for a change of Elective Course/s preferably within 15 days from the date of commencement of the semester as per the academic calendar of the College.

### **6.6.2. Permitted Maximum Credits for Registration:**

The student shall be permitted to register in a semester for that number of courses with total credits not exceeding 28. These 28 credits, include Minor/Honours degree courses, the courses of the regular semester and backlog courses. The registration of these additional credits also includes the courses with a shortage of attendance and the courses with unfulfilled CIE requirements. A student shall pay the prescribed registration fees as notified by the College from time to time.



### **6.6.3. Late Registration:**

Registration beyond the last date may be permitted only in special cases till the date specified in the Academic Calendar; on payment of a late registration fee.

### **6.6.4. Registration for Non-credit Mandatory courses:**

- 1) Formal registration for these courses shall also be done along with other courses, at the beginning of the semesters.
- 2) Non-credit requirements are assessed as Pass (PP)/ Not Pass (N P) subject to the fulfillment of the minimum requirements of the specified activities and a minimum of 75% attendance. The award of degree is subject to successful completion of these requirements.
- 3) A student will be awarded PP (Pass) grade for the course he/she is registered for, in that semester, provided the minimum requirement is met during that semester together with attendance criteria.
- 4) Not satisfying these requirements will result in a failure grade NP (Not Pass), and the student has to re-register for the course when offered next in the subsequent semesters and pass within two years. The grades shall be submitted to the College before the commencement of the SEE.

### **6.6.5. Course substitution:**

A student obtaining 'F' grade four times in a course, other than the Professional core courses, is permitted to choose an equivalent course for substitution on approval by the College. The student shall re-register for the new course and complete the course requirements subjected to the conditions as specified. The student shall not be permitted to avail this option beyond a maximum of two courses during the programme.

### **6.7. Attendance Requirement**

1. Every prescribed course shall be considered as a unit for the calculation of attendance. The students are required to attend all the lectures, tutorials, practical, and other prescribed curricular and co-curricular activities, and earn full attendance. However, a student shall obtain a minimum attendance of 85% in each of the courses registered. However, if the attendance is below 85%, the shortage up to a maximum of 10% of the attendance may be condoned by the Principal on the specific recommendations of the Dean/HoD of the department where the candidate is studying. This provision shall be utilized based on medical grounds, participation in NSS/ NCC/ Red cross/ National level Republic Day and Independence Day Parade/ Participation in University State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value, supported by valid documents. The Course Teacher may recommend for condoning the shortage of attendance and submit the application with documents through the HoD along with the recommendation to the office of the Dean Academic before the last day of the semester.



- 2) The basis for the calculation of attendance shall be the period prescribed by the College by its academic calendar of events and as notified by the Dean Academics.
- 3) In case of late admissions, approved by competent authority (KEA/DTE /VTU), for admission to I semester and III semesters (for lateral entry scheme), the attendance shall be reckoned from the date of admission to the Programme.
- 4) The Principal shall also notify every month, the list of candidates who are falling short of required attendance. The Course Teacher/ Mentor/Class Teacher or the College office shall inform the students as well as their parents/guardians about the attendance requirement and the attendance status every month. Students facing an attendance shortage shall be mentored to make up for the shortage.
- 5) A student who does not satisfy the attendance requirement in one or more courses [including bridge courses for lateral entry students, if any) shall not be permitted to appear for the Semester End Examinations of those courses. The grade card for such courses shall be marked as DX. The candidate shall repeat those courses whenever offered next. However; the student shall be allowed to appear for the SEE in other courses of the semester.

#### **7.0. ASSESSMENT AND EVALUATION PROCEDURE**

Formative, Summative and other Assessments shall be conducted as per the calendar of events of the College in all the courses of the programme offered to the students, within the framework of Scheme of Teaching and Evaluation approved by the College.

##### **7.1 Assessment and Evaluation Process:**

- 1) CIE and SEE constitute the major evaluations prescribed for each course, with only those students maintaining a minimum standard in CIE are permitted to appear in the SEE of the course.
- 2) In such cases where a laboratory is attached to the course, CIE marks shall be awarded separately for both theory and the laboratory. However, the laboratory may or may not have the SEE component in the evaluation.
- 3) In such cases where a laboratory carries more credits and is not part of the theory, they are listed separately in the Scheme of Teaching and Evaluation. Hence, they are treated as separate “heads of passing” which are assessed and evaluated independently.
- 4) CIE and SEE to carry 50% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits.
- 5) The evaluation system of the programme is comprehensive and continuous during the entire period of the Semester, by the faculty who is teaching the course. For a course, the evaluation and grading will be on the following parameters:





A	Contineous and Comprehensive Evaluation	25 Marks
B	Internal Assessment Test	25 Marks
	TOTAL of CIE (A+B)	50 Marks
C	Semester End Examination (SEE)	50 Marks
	TOTAL of A+B+C	100 Marks

## 7.2 Continuous Internal Evaluation (CIE)

**1)For a theory course, with an L-T-P distribution of L-0-0, the CIE will carry a maximum of 50% weightage of the total marks of a course. Before the start of the Academic session of each semester, a faculty may choose for his course Internal Assessment Test and a minimum of two of the following assessment methods with suitable weightage for each. (Refer Annexure VII Guidelines)**

- i)Assignments (Individual and/or Group)
- ii)Seminars
- iii)Oral/Online Quizzes
- iv) Group Discussions
- v)Case studies/Case lets
- vi)Practical orientation on Design Thinking, Creativity & I n novation
- vii)Participatory & Industry-Integrated learning
- viii)Practical activities / problem solving exercises
- ix)Class presentations
- x)Analysis of Industry/Technical/Business Reports
- xi)Reports on Guest Lectures / Webinars / Industrial Visits
- xii)Industrial / Social / Rural Projects
- xiii)Participation in Seminars/ Academic Events/Symposia, etc.
- xiv)Any other academic activity

2)The faculty will submit the 'Continuous and Comprehensive Evaluation Assessment Plan to the Principal/Dean/HOD for approval and notify the same along with the course syllabus before the start of semester. The total marks of the above two assessment components shall be scaled down to 25 marks/25% of total marks of the respective course (i.e., A).

3)To assess the students in a course under Internal Assessment Test component, three tests shall be conducted in a semester. Each test will be conducted for 25 marks. The average marks obtained in these three tests will be taken as IAT Marks (i.e., B).

4)The CIE marks awarded to students at different stages during the course shall be displayed on



the notice board of the Department concerned to enable the students to point out any discrepancies.

- 5) The student shall obtain a minimum of 40% of marks allotted for CIE in each course (i.e., A+B) to be eligible to appear for the SEE in that course.
- 6) When a laboratory is part of a theory course, with L-T-P distribution of L-O-P, the student shall obtain a minimum of 40% marks in CIE of the laboratory to be eligible to appear for SEE in that course. This is in addition to the requirement specified under (5) above for the theory part of the course. The CIE marks obtained by a student in the laboratory, if it is equal to or greater than 40% shall be retained until the end of that academic year till he passes the SEE. Otherwise, he/she shall re-register for the course when offered next.
- 7) If a student is unable to secure a minimum of 40% in CIE marks in any course, he/she shall not be eligible to take up SEE/ viva-voce examination in that particular course. It shall be the responsibility of Principal/Dean to scrutinize the list of candidates and permit only the eligible students to take up SEE/ viva-voce. In the event of an ineligible student inadvertently being allowed to appear for the theory/viva voce examination, the result of the concerned student shall be withdrawn forthwith by the College.
- 8) The list of such students, who have not secured the minimum in CIE marks, shall be sent to the Principal along with the submission of CIE marks of the successful students.
- 9) After the submission of CIE marks to the Principal, any request for changes in the marks by the HoD shall be considered only after due approval of the Principal obtained through the Dean (Academics).
- 10) The students not obtaining 40% marks in CIE shall re-register for the course during the subsequent semester whenever it is offered.

### **7.3 Semester End Examination**

- 1) Only those students who satisfy the attendance requirement as specified in clause 6.7 and CIE requirement as mentioned above (7.2) shall be eligible to appear for SEE of that course.
- 2) College examinations for all courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50 marks to add the same with the CIE marks for the award of the letter grade.



A	Contineous and Comprehensive Evaluation	25 Marks
B	Internal Assessment Test	25 Marks
	TOTAL of CIE (A+B)	50 Marks
C	Semester End Examination (SEE)	50 Marks
	TOTAL of A+B+C	100 Marks

- 3) The Semester End Examination for all the courses offered during the semester shall be conducted at the end of each semester except when there are no students taking examinations for any course as per the Scheme of Teaching and Evaluation.
- 4) Only those students who satisfy the attendance requirement as per 6.7 and CIE requirement as per 7.2 shall be eligible to appear for SEE of that course.
- 5) College examinations for all courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50 marks to add the same with the CIE marks for the award of the letter grade. (except for the project work the total SEE marks are 100)
- 6) The College examinations for all the Programmes of study shall be conducted at the end of each semester.
- 7) Students having no backlog courses, may not have more than one examination scheduled on the same day. However, students having backlog course may face a situation where they may have,
  - a) Two examinations scheduled at the same time of the day,
  - b) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and
  - c) Examinations on consecutive days.The students shall be prepared to appear for the examinations specified above under (a) and (c) cases. However; the College shall take utmost care to avoid scheduling as specified under (a) as far as possible. But in view of time constraint to complete the examinations and announce results on time, if it becomes unavoidable, the students shall choose to appear for the examination as per the advice of their Mentor. As changing the examination date is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases.
- 8) The passing standards in CIE, SEE, a course and a semester for all types of the courses in which grades are awarded shall be as per the clause **6.3**.



- 9) A student securing an 'F' grade in any courses, shall reappear for that course during the subsequent SEE. The CIE marks awarded to the student at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where grade DX was awarded.
10. For a pass ('P' grade), sum total of CIE and SEE marks must be 40% of the maximum marks prescribed for a course as per the Scheme of Teaching and Evaluation

#### **7.4. Makeup Examination:**

- 1) The makeup examination facility shall be available to those students who have appeared and failed in the SEE in one or more courses in a semester. However, the students passing in the makeup examination shall lose their eligibility to be considered for the award of Ranks.
- 2) If a student has satisfactory attendance in a course and has secured a minimum of 40% in CIE but could not appear in SEE for valid and *convincing* reasons as specified under 6.7, shall be eligible to appear for the makeup examination, after due recommendation by the Dean/ HoD and approval from the Principal.
- 3) Following may be considered as other valid reasons for semester end makeup examination:
  - a) Serious illness/ personal accident in the case of the student himself.
  - b) Serious illness/ Accident/ Death of parent /guardian.
- 4) Students claiming semester end makeup examination on the above reasons are required to apply to the Principal, on or before the prescribed last date for registration for such makeup examination announced in the Academic Calendar, along with proper medical certificate issued by a competent Authority. In the event of death and/ or serious illness/ accident of parent or guardian, the application should be supported by adequate evidence of the same/ appropriate documents. Decision of the Vice Chancellor is final in these matters.
- 5) The Makeup Examinations for both the semesters shall be conducted once in a year at the end of the even semester;

#### **7.5 Maintenance of Examination Records**

- 1) The candidate shall write tests, assignments/unit-tests/written quizzes in Blue Books, which shall be preserved by the Principal/Head of the Department for at least 3 years after the announcement of College results and shall be made available for verification as per the direction of the Dean (Academics).
- 2) Any corrections or overwriting of CIE marks on the blue book/drawing sheet laboratory record etc., where CIE marks are awarded, shall bear the signature(s) of the concerned



Teacher(s) and the Head of the Department.

- 3) CIE marks shall reach the Examination Section before the commencement of examinations as per the notification from the office of the Controller of Examination from time to time. After submission of CIE marks to the Examination Section, any request under any circumstances for a change of CIE marks shall not be considered.
- 4] CIE marks of those students, who have grievance as mentioned in the clause 7.6-4 & 5, shall also be sent to the Controller of Examination along with other course CIE Marks.
- 5) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship /Mini-Project Work/Major- Project Work shall be displayed on the notice board of the college much before the closure of the semester.
- 6) The Department shall submit the soft copy of the CIE marks of the courses to the Examination Section and submit a certified copy of the same to the Controller of Examination within the stipulated date notified by College. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department.

#### **7.6.Review Committee for CIE**

- 1) Review of assessment is an organized procedure that ensures the use of valid assessment methods and consistent application of criteria, to provide fair academic judgment and reliable outcomes in the form of marks or grades. It assures appropriate designing and implementation of assessment activities along with the generation of valid and reliable results.
- 2) After each test, the course teacher/HoD shall ensure that the evaluation is fair in each of the courses, scheme of valuation is uniformly followed and that the award of marks in the courses follow a normal distribution curve. If there are any lapses or the marks distribution is either left-skewed or right-skewed, corrective measures shall be taken and the Report to be submitted to the College.
- 3) If the review exercise is done solely for the purpose of unduly favoring the students, the College reserves its right to take punitive action on the concerned.
- 4) There shall be a Review Committee for Internal Assessments in every Department, which shall be chaired by the Head of Department and two senior faculty members nominated by the Principal/Dean. This Committee shall be responsible for the entire process of Internal Assessment in the Department, including redressal of grievances, if any.
- 5) Guideline for the Review Committee:  
Review may be conducted after each test or after the tests in case there is a large number of failures or high marks, or when large numbers of students have received the same marks, or



when there are wide discrepancies between marks allocated to individual students in different courses,

- a) Split-up of marks used for each of the different types of assessment in the course may be checked.
- b) Checking of the questions to find whether it maps to course outcomes.
- c) Checking the difficulty level of questions paper i.e is the difficulty level on the high extreme, very easy or otherwise.
- d) Whether the assessment modes are used to cover the entire syllabus or not.
- e) Checking the manner of awarding the marks, i.e has correction been at the extremes, liberal or tough?
- f) Moderation should not be restricted to just assessment but also includes the assessment design (scheme of evaluation).

#### **7.7. Rejection of Result**

- 1) A student *is* permitted to reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in College Examinations(SEE) of a semester. The rejection is permitted only once during the entire Programme of the study.
- 2) Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned course grades) in all the courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of the VIII semester project shall not be permitted.
- 3) Students who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking re-admission during the subsequent academic year/s, governed by clauses 8.2 and 8.3.
  - a) If the rejection of SEE results excluding CIE marks is of the odd semester; students shall be allowed to take admission to the immediate next even semester.
  - b) If the rejection of SEE results excluding CIE marks is of an even semester, then students shall be allowed to take admission to the next odd semester.
  - c) Re-admission to odd/even semesters shall not be considered as fresh admission and therefore student shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Program shall be counted with reference to the University Seat Number (US N).
  - d) Applications for rejection of results excluding CIE and approval to reappear for examinations shall be sent to the Controller of Examinations through the Principal of the College



within 30 days from the date of announcement of the results, with prescribed fee as notified by the College from time to time. Late submission of applications shall not be accepted for any reason.

- e) Application for rejection of results including CIE and approval for re-admission shall be sent to the Controller of Examinations through the Principal of the College within 30 days from the date of the announcement of the results with prescribed fee as notified by the College from time to time. Late submission of application shall not be accepted for any reason.
- 4) Registration for SEE is compulsory if the student/s has satisfied the attendance and CIE requirement of ODD /EVEN semester.

In case, the students fail to register for SEE of the odd semester after satisfying the attendance and CIE requirements of the semester, they shall be permitted to move to an even semester of that academic year.

However, such students have to register for odd semester examinations conducted at the end of the academic year for all the semesters and registration shall be considered for the first attempt.

In case, students fail to register for the odd semester SEE after completing successfully the even semester, they shall not be permitted to move to the higher odd semester of the subsequent academic year. Irrespective of a student appearing for SEE, he/she has to register for SEE for odd and even semesters before completing the academic year.

- 5) Students who opt for rejection of results of the examination shall be eligible for the award of the Degree and Minor Degree but not for the award of ranks and Honors Degree.

### **7.8 Academic Malpractice**

Academic malpractices shall be seriously viewed, and appropriate action taken. In case of malpractice during any of the internal examinations like assignments, quizzes, and tests, the Course Teacher/invigilator shall report the matter to the HoD for penal action. If the HoD finds that the offence is serious enough or the candidate appeals in writing to the College, then the matter shall be further referred to the Academic Malpractice Committee of the College. However, any malpractice in the SEE shall be reported to the College irrespective of the seriousness of the malpractice.



## **8.0. MAXIMUM DURATION FOR PROGRAMME COMPLETION**

### **8.1 Multiple-Entry-Multiple-Exit Options(MEME)**

While earning credits towards their B. E./B.Tech degree, the students may judiciously use the options provided to them through CBCS and MEME clauses in the Regulations, to obtain additional certificate and a B.Sc. degree. However, they shall earn the required credits for the award of the degree within the maximum specified duration.

The following distinctions are awarded under MEME options:

#### **1) Certificate in Respective Programmes of Engineering**

A student who exit at the end of II year of the programme shall be awarded a certificate, if he/she successfully passes the registered courses and earns:

- (i) At least 50% of the credit requirements of B.E./B.Tech. programme. (i.e. 80 credits) However, it is 25% for lateral admission candidates ( i.e, 40 credits).
- (ii) At least 50% of the programme professional core courses (some specific Courses may be specified, so the leaving student has decent skills), and
- (iii) A minimum CGPA of 5.0.

#### **2) B.Sc. in Respective Programmes of Engineering**

A student who exit at the end of III year of the programme shall be awarded a B.Sc. degree, if he/she successfully passes the registered courses and earns:

- (i) At least 75% of the credit requirements of B.E./B.Tech. programme i.e. 120 credits); and completed at least 3 years (80 credits and 2 years respectively for lateral admission candidates) in the programme.
- (ii) 100% of programme professional core courses
- (iii) A minimum CGPA of 5.0.

With B.Sc., the student is eligible for entry into programmes which take B.Sc. as admission eligibility criteria.

#### **3) Re-entry to complete the programme**

A student exiting with a certificate or B.Sc. should be entitled to re-enroll in the programme. All the credits will be transferred, if the student enrolls back within a limited period of 3 years of exiting. In case a student enrolls after that, then the transfer of credits should be examined by looking at the change in the curriculum from what the student did. Exits are permitted by the College within 15 days of announcement of II year and III year results, on written request for the





award of certificate and B.Sc. Degree by a student when he/she is eligible. Corresponding to these two exits, a maximum of two re-entries are permitted with the condition that he/she complete the programme within the maximum specified duration.

#### **4) Programme Completion in another Institution**

The College permits a student to earn a certificate/ B.Sc. in one institution and complete the degree programme in another. This will enhance the value of certificates and the B.Sc. Degree.

### **8.2. Maximum Duration for Programme Completion**

The minimum duration of the program is four academic years for regular students and three years for lateral entry students. Students admitted to first-semester B.E./ B. Tech. shall complete the programme within eight academic years from the year of the first admission, failing which they will not be eligible for the award of a degree. Students admitted to third semester B.E./ B.Tech., under the lateral entry category shall complete the programme within six academic years from the year of the first admission, failing which they will not be eligible for the award of degree.

### **8.3. Re-admission**

- 1) Students who are temporarily discontinuing the programme and getting readmitted to the eligible semester are permitted subjected to the clause **8.2**.
- 2) The permission for readmission is only on request through the Principal and is not treated as a matter of right. Such students shall not claim any benefits based on the readmission.
- 3) Students who take re-admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semesters of the programme adhering to the Regulations of the prevailing scheme and shall complete additional courses, if any, as per the decision of equivalence committee in concurrence with concerned Board of Studies on establishing the equivalence between two schemes. Such a candidate shall not be eligible for the award of rank.
- 4) Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number (USN), which was allotted at the time of his/her admission to the programme. The maximum duration of the programme shall be counted with reference to the USN allotted during his/her first admission to the programme.
- 5) A student who has not obtained the eligibility for I II semester even after three academic years from the date of admission to I semester shall discontinue the programme or get readmitted to I semester of first year B. E./B.Tech., with a new University Seat Number (USN) but retaining



the same year of admission.

- 6) The candidates who have temporarily discontinued the programme of study or changed the scheme of study from one to another because of various reasons or transferred with credits from the autonomous college of the University/other University to non -autonomous constituent/affiliated college of the University shall be eligible for the award of degree provided the total credits earned at that stage are equal to or greater than the credits prescribed by the University under clause **6.3.** and satisfy all other conditions of this Regulations.
7. In case, the forecasted or estimated credits are going to be less than that of the credits prescribed by the University on the completion of all the semesters of the programme under the prevailing scheme, the candidate shall register for a course or courses not studied earlier and make up the credits which are equal to or greater than the University prescribed credits

Level	Out Standing	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Grade	O	A+	A	B+	B	C	P	F
Grade Points	10	9	8	7	6	5	4	0
Score (Marks) Range %	90-100	80-89	70-79	60-69	55-59	50-54	40-49	0-39

- 8) In case of any difficulty, Vice-Chancellor shall decide on individual cases, which shall be final.



## **9.0. GRADING AND VERTICAL PROGRESSION**

### **9.1. Award of Grades:**

- 1) The College adopts absolute grading system wherein the marks are converted to grades, and every semester result will be declared with Semester Grade Point Average (SGPA) on successful completion of all courses of that semester.
- 2) The total marks obtained by the student in CIE and SEE of a course is expressed as a percentage to compute the Grade Points and the letter grade is awarded as indicated in the table below:
- 3) If there is no SEE for a course, then the CIE marks at one will be the basis for the determination of letter grade.

### **9.2 Other Letter Grades:**

The letter grades specified in **9.1** are used as student performance measures in all kinds of assessments. However, the following letter grades are also awarded under the circumstances derived below (Letter Grade: Grade Point - Circumstances).

- 1) DX: 0 - Credits are not included in CGPA, Attendance below 75%, hence Repeat the course (In case of electives, course change is permitted)
- 2) AU: 0 - Satisfactory in an Audit course
- 3) AB: Absent for the Course
- 4) PP: 0 — Passed in Non-credit course
- 5) N P: 0 - Not Passed in Non-credit course
- 6) IC: No credits - Incomplete (a place holder; gets converted to an appropriate grade after clearing SEE examination else converted to 'F') else automatically converted to 'F'.
- 7) W: No credits - Dropped/ withdrawn (W is not a grade but only a place holder indicating that the course has been dropped/withdrawn and it must be cleared in subsequent semesters).

### **9.3. Passing Standards**

#### **1) Maximum and Minimum CIE Marks:**

The maximum weightage of CIE mark shall be 50. To appear for the SEE, the minimum CIE marks to be secured in each of the courses shall be 40 % of the maximum marks of CIE.

#### **2) Maximum and Minimum SEE Marks:**

The maximum weightage of SEE marks shall be 50 and marks to be secured for passing shall be 35 % of the maximum marks of SEE.



### 3) Eligibility for Passing a Course:

The overall passing marks shall be 40% of the maximum marks (the sum of the CIE and SEE should be 40% of the maximum marks) of the course. That is, minimum passing grade in a course (head of passing) shall be “P”.

### 4) Semester Passing Standards:

a) A student shall be declared successful or ‘passed’ in the entire undergraduate programme, only when he secures a Grade Point of 4 [“P” Grade] or above in every registered course in each Semester during the entire programme for the Degree Award, as required.

a) A Student shall be declared successful or ‘passed’ in any Non-Credit Course if he secures a ‘Satisfactory Grade (PP)’ for that Mandatory Course.

5) A student who satisfy the conditions (1), (2), and (3) above, and obtain any grade from ‘O’ to ‘P’ in a course shall be considered to have passed that course.

6) A student shall be awarded letter grade in a course as indicated below, if he/she,

- a) Fails to satisfy the conditions under Section (5) above: ‘F’ Grade,
- b) Absents himself/herself from the University examinations: ‘AB’ Grade,
- c) Has attendance shortage in a course: ‘DX’ Grade, and
- d) Course is Incomplete for any reason: ‘IC’.

7) Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any course/s, shall not be eligible for the SEE, conducted by the College and they shall be considered as fail in that Course/those Courses and marked as DX in the grade cards against this course/s. However; they can appear for examinations conducted for other Courses of the same semester and backlog course/s if any.

8) Students who have satisfied the attendance requirement but not the CIE requirements can be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course(s) when offered during the next immediate semester/s or later.

9) Each appearance to SEE or absence after completing CIE and attendance requirements to complete a course shall be treated as an attempt.

### 9.4. Vertical Progression

A student progresses according to his/her performance and could register for the higher semesters subjected to conditions under clause 8.2.

#### 1. Students Admitted to the First Year

a) Students having “F” grades for the courses totaling to more than 16 credits in the 1<sup>st</sup> and 2<sup>nd</sup>



semesters of the first year of the programme shall not be permitted to move to the 3<sup>rd</sup> semester (2<sup>nd</sup> year) of the programme. These courses include courses marked as DX.

b) The students who fail to satisfy CIE and attendance requirement shall repeat the courses whenever offered next and become eligible for the 2<sup>nd</sup> year.

**2) Obtaining CIE:** From the 3<sup>rd</sup> semester (2<sup>nd</sup> year) onwards the student who obtains the required attendance for the course, but not the required CIE marks is allowed to move forward to the next semester. However, the student shall mandatorily obtain the required CIE in the subsequent semester. Obtaining minimum CIE marks for the course is mandatory. It may also be noted that the student shall not be permitted to appear for *SEE* in such courses until he/she obtains the required CIE.

**3) Completion of backlog courses:** From 3<sup>rd</sup> semester (2<sup>nd</sup> year) onwards,

a) The student who obtains required attendance, CIE, and appearing for *SEE* obtains “F” Grade shall be allowed to move forward to the next semester (odd/even) irrespective of several “F” grades, subjected to satisfying the clause 6.3(Prescribed number of Credits for the Program) and 8.2 (Minimum Duration for Program Completion)

b) there shall be no restriction for promotion from an even to next odd semester (or odd to next even semester) even if the student has not satisfied the attendance requirement in one or more courses (including bridge courses for lateral entry students), but he/she shall not be eligible to appear for *SEE* in those course(s). Such students shall repeat those courses whenever offered next.

**4)** A student shall be given admission to the 7<sup>th</sup> semester (4<sup>th</sup> year) provided he/she passes all courses of 1<sup>st</sup> and 2<sup>nd</sup> semesters.

**5) Permitted Maximum credits for registration:** The student shall be permitted to register for total courses to an extent subjected to the conditions under clause **6.6.2**(Permitted maximum credits for registration)

**6) Successive Failures and alternate course selection:**

a) If a student not completing a course, other than the professional core course, even after four attempts, may drop that course and choose an alternate course having the same number of credits from the pool of courses suggested by the concerned Board of Studies.

b) The course so selected should not have been studied by the student or to be studied in future at higher semesters. The faculty advisor shall guide/ advise the student in this regard.

c) The college shall make arrangements for the registration and conduction of CIE for the alternate course selected.

d) This provision is given only for two courses (one at a time) during the entire maximum duration of the programme.



- e) This provision is optional; the student/s can continue registering for the same course without opting for a change.

#### 9.5. Condition for Re- Registering a Course:

- 1) Students who do not pass the course as per clause 220 B 9.3(3) (Passing Standards) and awarded "F" Grade may Re-Register and improve their performance.
- 2) Such student, after passing the failed course in subsequent examination/s, will be awarded letter grade based on the marks he scores while passing in the subsequent examination/s.

#### 9.6. Computation of SGPA and CGPA:

- 1) Semester Grade Point Average (SGPA) will be awarded at the end of each Semester and Cumulative Grade Point Average (CGPA) will be awarded at the end of the program. However; CGPA is calculated at the end of each semester from the second semester onwards and reflected in the grade card for indicating the progress of the student.
- 2) Each course in a program is associated with number of credits(C). Based on the number of Credits for a course and obtained Grade Point (GP) for that course in a Semester, the GPA is calculated as given below:
  - a) The SGPA is the ratio of sum of the product of the number of credits with the grade points secured by a student in all the courses taken by him and the sums of the number of credits of all the courses undergone by a student, i.e.,

$$SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

$$SGPA = \frac{\sum_{\text{for all the courses including P and F grades in that semester}} (\text{Course Credits} \times \text{Grade Points})}{\sum_{\text{for all the courses including F grades in that semester}} (\text{Course Credits})}$$

Where  $C_i$  is the number of credits of the  $i$ th course and  $G_i$  is the grade point scored by the student in the  $i$ th course.

- b) The CGPA is also calculated in the same manner considering all the courses undergone by a student over all the semesters of a programme, i.e.,

$$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$$



$$CGPA = \frac{\sum_{\text{for all the courses excluding F grades until that semester}} (\text{Course Credits} \times \text{Grade Points})}{\sum_{\text{for all the courses excluding F grades until that semester}} (\text{Course Credits})}$$

Where  $S_i$  is the SGPA of the  $i$ th semester and  $C_i$  is the total number of credits in that semester. Finally, the SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards. An illustrative example to calculate SGPA and CGPA for one academic year is shown in Annexure-I.

### 9.7. Conversions of CGPA into Percentage of marks and Class Equivalence

The following formula for conversion of the CGPA on a 10-point scale into the percentage of marks (M) for employment/ higher studies, etc. may be used;

Percentage of marks secured,  $M = CGPA \text{ Earned} \times 10$

E.g.: Illustration for a CGPA of 8.20;

Percentage of marks secured,  $M = 8.20 \times 10 = 82.0\%$

### 9.8. Class Equivalence

Subsequent to the conversion of final CGPA, after successful completion of the Program, into the percentage of marks (M), a graduating student is reckoned to have passed in

(i) First Class with Distinction (FCD) if  $M \geq 70$

(ii) First Class (FC) if  $60 \leq M < 70$

(iii) Second Class (SC) if  $50 \leq M < 60$

(iv) Pass Class (P) if  $40 \leq M < 50$

### 9.9. Award of Grade Cards, Certificates and Transcripts :

**(1) Grade Cards:** At the end of each semester, a Grade Card shall be issued to all the registered students of that semester, indicating the Course code, Title, Number of credits, Letter grade awarded, and Credits earned, for all the Courses as specified in the scheme of teaching and evaluation, along with total credits earned, SGPA, and CGPA as applicable. This may have F grades and other temporary grades awarded to the student.

**(2) Grade Certificate:** The Grade Certificate, having the same format of Grade card but indicating the month and year of clearing a course, is issued to the student on demand only on clearing all the temporary grades specified in the Grade Card.



**(3)Transcripts:** Transcript is the consolidated statement of the academic performance of a student for all the semesters since joining the programme and is generally given to a student on successful completion of the programme along with the degree certificate.

**(4)**For those students who have taken multiple attempts to clear a course, the transcript given on successful completion of the programme will only contain earned pass grade ('O' to 'E, AU and PP); the courses cleared subsequently will however be shown in the respective semester with Month and Year in which the student has finally cleared the course. The transcript will show only the overall CGPA based on all the courses taken by the student. Credits earned beyond the requirement for the award of the degree shall be shown as additional courses separately, indicating the grade earned by the student. Additional copies of the transcript can be obtained if needed, on request submitted along with payment of applicable fee.

**(5)** Students who have not yet completed the programme can obtain an interim Transcript at the end of any semester, if needed, on request and upon payment of applicable fee. The interim Transcript includes failed courses, which have not been cleared at the time of issue.

#### **9.9.1. Mandatory Earning of Activity points:**

Sl.No.	Student Category	Activity Points Prescribed
1.	Regular Students admitted to the 4 year Degree Programme	100
2.	Students entering 4 year Degree Programme through lateral entry	75
3.	Students transferred from other Universities. To the 5 <sup>th</sup> Semester (3 <sup>rd</sup> Year)	50

The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

(i)Activity Points (non-credit) have no effect on SGPA/CG PA.

in case a student fails to earn the prescribed activity Points before the commencement of 8<sup>th</sup> semester examinations, the Eighth Semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth Semester Grade Card.

(ii)The Guidelines and suggestive activities under Activity points are listed in Annexure –VII





## **10.0 ELIGIBILITY FOR AWARD OF DEGREE, PRIZES, MEDALS, AND RANKS**

### **10.1. B.E./B.Tech. Degree**

- (a) Students shall be declared to have *completed* the undergraduate Programme of B. E./B.Tech. degree and is eligible for the award of degree provided they have undergone the stipulated course work of all the semesters under the Scheme of Teaching and Examinations and have earned the prescribed number of credits as per clause 220B 3.3 within the permitted maximum duration specified under clause 2 20B 5.2.
- (b) For the award of degree, completion of bridge courses, if any, as applicable is compulsory.

### **10.2. B.E./B.Tech. (Honors) Degree**

- (a) Students shall be declared to have completed the undergraduate Programme of B. E./B.Tech., degree with Honours, provided they have,
- (i) Been declared eligible for the award of the degree as per clause 220B 7.1,
  - (ii) Earned additional 18 or more credits through University-approved online courses, and
  - (iii) Satisfied the conditions of “VTU (Award of Honours/ Minor at B. E./B.Tech. Degree Programmes) Regulations, 2022. (Refer Annexure - VI)

### **10.3. B.E./B.Tech. with Minor Degree**

- a) Students shall be declared to have completed the undergraduate Programme of B. E./B.Tech., degree with Minors, provided they have,
- (i) Been declared eligible for the award of the degree as per *clause 10.1*,
  - (ii) has earned additional 18 or more credits through University-approved online courses, and
  - (iii) Satisfied the conditions of “VTU (Award of Honours/ Minor at B.E./B.Tech. Degree Programmes) Regulations, 2022. (Refer Annexure - VI)

### **10.4. Award of Degree for an Extraordinary Student:**

- 1) The University through college can offer a fast-track degree for an extraordinary student. The same is done by offering *courses* of his/her choice to fulfill the requirement of the programme in three and half years.
- 2) However, the degree shall be awarded on completion of 04 years.
- 3) The course completion letter shall be issued jointly by the University and the College immediately after completion of the programme, notwithstanding the minimum duration.
- 4) The extraordinary student is one with a CGPA 9 in 2nd and 3rd semesters and continue to maintain the same in all the semesters. Otherwise, his/her registration shall stand canceled automatically.



5) Aspirant students shall register with the College at the 4th semester level, with the prescribed registration fee as fixed by the College from time to time. Such students shall register for more credits, other than the regular semester credits, along with the 5th semester registration.

### **10.5. Noncompliance Cases**

#### **1) Noncompliance of Mini-project**

The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent examinations after satisfying the Mini- project requirements.

#### **2) Noncompliance of Major-project**

The Project Work shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the Major-project shall be declared fail in that course and shall have to complete the same during subsequent examinations after satisfying the Major Project Requirements

#### **3) Noncompliance of Internship**

All the students of B. E./B.Tech. shall have to undergo mandatory internship The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the internship shall be declared fail in that Course and shall have to complete the same during subsequent examinations after satisfying the internship requirements.

#### **4) Non compliance to earn credits in Honours and Minors**

When a student registering for Minor or Honours degree is unable to complete all the required courses or earn the required *credits* within the maximum programme duration or at the time of becoming eligible for the award of the Degree, may withdraw from these additional degree programmes and request for the award of a certificate. The University shall consider those additional courses passed as Value Added Courses and issue a certificate to that effect.

### **10.6. Award of Prizes, Medals, and Ranks**

For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the College / University for such awards.

- (1) For the award of rank in a Specialization of Bachelor of Engineering/Technology, the highest CGPA secured by the students at the end of the VIII semesters shall be considered after having completed the requisite credits.



- [2] The additional credits earned for the award of Honours / Minors degree shall not have any bearing for the Rank declaration.
- [3] A student shall be eligible for a rank at the time of award of the degree of Bachelor of Engineering / Technology, provided that the student,
- a. (i) Has passed all the Courses of I to VIII semester in the first attempt only in case of Candidates admitted to I year.
  - (ii) Has passed all the Courses (including bridge courses) of III to VIII semester in the first attempt only in case of Candidates admitted under lateral entry scheme.
  - b) Is not a repeater in any semester because of rejection of result of a semester / shortage of attendance /temporarily discontinued and rejoined/ readmitted etc.
  - c)Has completed all the semesters (I to VIII or III to VIII for lateral entry students) in VTU constituent college or in any VTU affiliated college, excluding the autonomous colleges.
  - d) Has not been transferred from any autonomous college affiliated to VTU or any other University.
- [4] The total number of ranks awarded shall be 10% of the total number of students who appeared in the VIII semester subject to a maximum of 10 ranks in a specialization.
- [5] For an award of ranks in a specialization, a minimum of 10 students should have appeared in the VIII semester examination.

**Illustration:**

- a) If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Program, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.
- b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 09.
- c) In case of a fractional number of ranks, it is rounded to a higher integer only when the first decimal place is greater than or equal to 5.

**10.7.** Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained a higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A+, A, B + etc., shall be taken in to account to decide the order of the rank.



## **11.0. DISCIPLINARY ACTIONS AND RELATED MATTERS**

### **11.1. Withholding of grades**

The grades of a student may be withheld if he/she has not paid his/her fee (or any dues) or if there is a disciplinary case pending against him/her or for any other reason to be specified by Academic Council (AC) from time to time.

### **11.2 Termination from the program**

A student may be required to withdraw from the program and leave the Institute as per the guidelines of the VTU from time to time.

### **11.3 Conduct and Discipline**

**a)** Each student shall behave himself / herself in a manner befitting his/her association with PDACEK. He/she is expected not to indulge in any activity which is likely to bring down the reputation of the institute. He/she should show due respect and courtesy to the faculty, administrators, officers and employees of the institute. He/she should exhibit good behaviour with fellow students. Dean of Student Affairs will issue the character and conduct certificate if a student requests it.

**b)** Violation of code of conduct shall invite disciplinary action which may include punishment such as reprimand, disciplinary probation, fine, debarring from the examination, withdrawal of placement services, withholding of grades / degrees, cancellation of registration and even expulsion from the institute.

**c)** The faculty in-charge of a subject will have powers to debar a student from the examination if a student is found indulging in unfair means of any form in the examinations. However, the aggrieved student may approach Academic Council (AC) with a written complaint for redressal.

**d)** The Warden(s) in-charge of institute hostel have powers to reprimand, impose fine or take any other suitable measures against a resident student who violates either the code of conduct or rules and regulations pertaining to the institute hostel.

**e)** Involvement of a student in ragging may lead to his/her expulsion from the institute.

**f)** A student, faculty or other functionary of the institute can report violation of the code of conduct by an individual or a group of students to Academic Council.

**g)** If a student is found guilty of some offence then, AC may not recommend for the award of a degree even though, a student has satisfactorily completed all the academic requirements.

**h)** For any legal appeal in court of law, no objection is mandatory from the College.



## ANNEXURE - I

### SGPA and CGPA Calculations : An illustrative example one Academic Year

Semester	Course Cod	Credits	Grade	Grade Points GP	Credit Points Cr P	SGPA - CGPA
I	XX11	3	B	8	3x8=24	
I	XX12	3	F	0	3X0=00	
I	XX13	3	A+	9	3x9=27	
I	XX14	3	I	0	3x0=00	SGPA=101/20 = 5.05
I	XX15	3	B	6	3x6=18	
I	XX16	1	C	5	1x5=05	
I	XX17	1	A+	9	1x9=09	
I	XX18	2	B	6	2x6=12	
I	XX19	1	B	6	1x6=06	
		<b>20</b>		<b>49</b>	<b>101</b>	
II	XX21	3	B+	7	3x7=21	
II	XX22	3	A	8	3x8=24	
II	XX23	3	B	6	3x6=18	SGPA=178/26=6.85
II	XX24	3	C	5	3x5=15	
II	XX25	3	A+	9	3x9=27	
II	XX26	1	F	0	1x0=00	
II	XX27	1	A	8	1x8=08	
II	XX28	1	A+	9	2x9=18	CGPA= 101+178/14+25
II	XX29	1	A	8	1x8=08	CGPA=279/39=7.15
<b>I SEMESTER</b>						
I	XX12	3	B	6	3x6=18	
I	XX14	3	B+	7	3x7=21	
		<b>25(26)</b>			<b>178</b>	

(25\*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.

CGPA Calculation of the Program: An Illustrative example

Semester	I	II	III	IV	V	VI	VII	VIII
Credits	20	20	20	20	20	20	24	16
SGPA	5	6.73	9.2	6.86	8.18	7.73	9.18	9.4
Sum(Cr P)	100	175	220	165	204	185	184	169

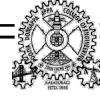
$$\text{CGPA} = [100+175+220+165+204+185+184+169] / 160$$

$$\text{CGPA} = 1402 / 160 = 8.76$$

For Lateral Entry Students

$$\text{CGPA} = [220+165+204+185+184+169] / 120$$

$$\text{CGPA} = 1127 / 120 = 9.39$$



## **ANNEXURE - II**

The Regulations Governing the Change of College:

[@ <https://vtu.ac.in/wp-content/uploads/2021/01/Notified-COC-Regulations.pdf> ]

## **ANNEXURE - III**

The Regulations Governing the Change of College:

[@ <https://vtu.ac.in/wp-content/uploads/2021/01/Notified-COB-Regulations.pdf> ]



## ANNEXURE - IV

### SUGGESTIVE ASSESSMENT AND EVALUATION IN SPECIFIC COURSES

#### **A 6.1. CIE and SEE Assessment in Specific Courses:**

Examination and Evaluation for all the courses shall be done as specified under Sections 22OB 4.1, 22OB 4.2 and 2 20 B 4.3 of this Regulations for SEE and CIE. However, for some specific courses, the procedure is made clear in the following sections.

##### **A 6.1.1. CAED**

The CIE marks for CAED course offered in the 1<sup>st</sup> year shall be assessed as follows:

- 1) The CIE marks awarded in the case of Drawing shall be based on weekly evaluation of the classwork (sketching and computer-aided drawing) with each drawing evaluated as mentioned module-wise in the syllabus. The marks for all the drawing sheets are added and scaled down to 30 marks.
- 2) One class test similar to SEE will be conducted after completion of the syllabus for 100 marks and scaled down to 20 marks.
- 3) CIE marks (out of 50) scored by the student is the sum of classwork evaluation and test marks.

##### **A 6.1.2. Engineering Graphics/ Drawing /Field Works**

###### **1) Engineering Graphics and Drawing (Laboratory Course)**

- a) The CIE marks awarded for higher semester Engineering Graphics/ Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 80:20. Method of assessing the CIE for such courses shall as per the scheme of Teaching and Evaluation of the course.
- b) The SEE shall be conducted and evaluated for a maximum of marks 100. Marks obtained shall be accounted for SEE final marks, reducing it by 50%.
  - (i) SEE will be conducted by the two examiners of the same institute appointed by the Principal.
  - (ii) Question paper shall be set jointly by both the Examiners and made available for each batch as per schedule. Examiners may refer *question* bank for this purpose.
  - (iii) Evaluation shall be carried out jointly by both examiners as per the scheme of Teaching and Evaluation.



## 2)Field Works

a)Field works include Surveying Practice/Socio-Economic survey/ Marketing survey/ traffic survey/ environmental survey. The CIE marks shall be split into two components with 80% of maximum marks (40 marks) are considered for fieldwork report evaluation and 20% of maximum marks (10 marks) for internal assessment test evaluation.

Field work evaluation includes attendance, data collection through survey, use of data for design drawing, and report. The split-up of marks for the report shall be decided by the faculty member who is guiding them for the design drawing and report. The criteria for split-up of marks shall be done to achieve the course outcomes. The report evaluation shall be carried out for 100 marks and scored marks shall be scaled down to 40 marks.

The assessment shall be through a presentation of the report followed by the visa-voce. This test shall be conducted by the fieldwork project guide and fieldwork coordinator. If the fieldwork coordinator happens to be the same faculty, then, HOD or senior faculty member will conduct the test with the guide. A test similar to SEE shall be conducted for 100 marks and marks scored shall be scaled down to 10 marks.

The sum of the report and test marks shall be the total CIE marks for field-work.

b) SEE for fieldwork Conducted by the two examiners of the same institute appointed by the College. Report and design drawing evaluation and viva- voce are in the ratio of 60:40. Fieldwork will be jointly evaluated by the Internal and External examiners and the duration of SEE shall be three hours.

### A 6.1.3. Practical Courses:

#### 1) CIE for Practical Work Courses

a) CIE marks for a practical course shall be 50 M rks. The split-up of CIE marks for record/ journal and test to be split in the ratio 60:40.

(i) Each experiment to be evaluated for conduction with observation sheet and record write-up. Split up of marks for the evaluation of the journal/write-up for hardware/software experiments designed by the faculty who is handling the laboratory session and shall be made known to students at the beginning of the practical session.

ii) Record shall contain all the specified experiments in the syllabus and each experiment write-up be evaluated for 10 marks.

iii) Total marks scored shall be scaled down to 30 marks (60% of maximum marks).





- iv) Weightage to be given for neatness and submission of record/write-up on time.
- v) Department shall conduct one test for 100 marks, after the completion of the experiments.
- vi) In test write-up, conduction of experiment, acceptable result, and procedural knowledge shall carry a weightage of 60% and the rest 40% for viva-voce.
- vii) The suitable split up of marks can be designed to evaluate each student's performance and learning ability.
- viii) The test marks out of 100 shall be scaled down to 20 marks (40% of the maximum marks).
  - a) The Sum of scaled-down marks scored in the report write-up/journal and marks of the test shall be the total CIE marks scored by the student.
  - b) Internal tests for laboratory courses with software experiments shall be conducted for a total of 100 marks at the end of the semester, jointly by the class Teacher and a Senior faculty nominated by the Principal.

In this evaluation, Observation, write-up of procedure/ Algorithm/ program, and execution of experiment shall be assessed for 80 marks and the Viva- voce for 20 marks.

Marks scored out of 100 shall be scaled down to 50 marks.

## **2)SEE for Practical Work Courses**

- 1) The SEE marks for the practical courses shall be 50 Marks.
- 2) SEE shall be conducted jointly by the two examiners of the same institute appointed by the College.
- 3) All laboratory experiments are to be included for practical examination.
- 4) Breakup of marks and the instructions printed on the cover page of the answer script are to be strictly adhered to by the examiners. OR  
Based on the *course requirement*, a split-up of marks for evaluation shall be decided jointly by the examiners.
- 5) Students shall pick one question (experiment) from the questions pool prepared by the examiners jointly.
- 6) Evaluation of write-up/conduction procedure and result/viva will be conducted jointly by the examiners.
- 7) The split-up of maximum allocated marks for SEE are:
  - (i) procedure/ writeup 20%
  - ii) Conduction and result 60%,
  - (iii) Viva-voce 20 %



- 8) SEE for the practical course shall be evaluated for 100 marks and scored marks shall be scaled down to 50 marks.
- 9) Change of experiment is allowed only once and 20% Marks allotted to the procedure/write-up part to be made zero (Evaluation is to be carried out for 80% of total maximum marks).
- 10) The duration of SEE shall be three hours.

#### **A 6.1.4. Internship**

- 1) The Internship shall be taken up during the period specified in the Scheme of Teaching and Examinations.

The Department/ College shall nominate faculty member/s to facilitate, Guide, and supervise students under an internship.

The students shall report the progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship. Duration of the internship shall be as mentioned in the scheme of Teaching and Examination.

The Internship examination shall be conducted at the end of the internship period

- 2) Report Evaluation : Internship shall be evaluated for 50% maximum marks. The split-up of marks suggested for report evaluation shall be based on,

- a) Report formatting (20% of marks of CIE for report)
- b) Presentation of the outcomes in the report (40% of marks for CIE for report) and
- c) Technical content of the report (40% of marks for CIE for report) Weightage shall be given for paper publication in reputed journals/refereed journals/ Conferences/Product developed/ Patent filed — only for Industry/ Research Internship.

- 3) **Viva-Voce** shall be conducted for 50% of marks of CIE. The split-up of marks suggested are:

- a) For demonstration of (*soft*) skills/Engineering Knowledge gained (50% of marks of CIE for Viva-voce).
- b) The question-answer session will check for the understanding of the fundamentals and concepts (40% of CIE marks for Viva-voce)
- c) Clarity in answering the questions (10% of CIE marks for Viva-voce) Viva-voce shall be conducted by the Mentor/Guide and Head of the Department/ one of the senior faculty assigned by the Head of the Department.



- 3) Those who do not complete the internship shall be declared 'Fail' and shall complete it during subsequent examinations after satisfying the internship requirements during subsequent semesters.

#### **A 6.1.5. Seminar**

- 1) The maximum marks prescribed for the Seminar and the evaluation process shall be notified by the College before offering the course.
- 2) The Seminar performance evaluation shall be a part of CIE only in a course where required.
- 3) The Seminar shall be assessed as indicated below.
  - a) The Head of the Department shall make arrangements for the conduct of seminars through a committee of faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award the CIE marks for the seminar. The *committee* shall consist of three senior faculty members of the Department and the most senior among them shall be the Chairperson.
  - b) The marks awarded for Seminar shall be based on the evaluation of the Seminar Report, Presentation skill, and Visa-voce (Question & Answers session) in the ratio of 50: 25:25.
  - c) Split up Marks to be assessed is follows:
    - (i) Report marks to be allotted by the seminar guide/s (50 % of the maximum marks)
      - A). Formatting of the report (10% of maximum marks)
      - B). Literature survey (20% of maximum Marks) and
      - C). Technical content of the report (20% of maximum marks)
    - (ii) Seminar Presentation skill marks to be allotted by the committee: (25% of the maximum marks)
    - (iii) Viva—Voce marks to be allotted by the committee: (25% of the maximum marks)
      - A). Understanding of fundamentals and *concepts* (15% )
      - B). Clarity in answering the questions (10%)

#### **A 6.1.6. Mini- Project**

- 1) The Mini- Project performance of a student shall be evaluated under CIE only. The maximum marks prescribed for CIE shall be as mentioned in the Scheme of Teaching and Evaluation.
- 2) The Head of the Department shall make arrangements for the conduct of viva-voce evaluation of the mini-project. The committee shall consist of a Faculty guide/mentor and two senior *faculty* members of the Department and the most senior among them shall be the Chairperson.
- 3) The CIE marks awarded for Mini- Project, shall be based on the evaluation of the Mini -Project



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Report, Project Presentation skill, and Viva-Voce (Question and Answer session) in the ratio of 50:25:25

- 4) The marks awarded for the Mini - Project report shall be the same for all the students of the batch. The faculty guide/ mentor during the Mini-Project shall Evaluate the performance for 50% of the maximum marks of CIE for the report

#### **A6.1.7. Project Work**

- 1)The project work shall be evaluated considering both CIE and SEE; The CIE and SEE marks shall be as mentioned in the Scheme of Teaching and Evaluation.
- 2)The CIE marks awarded for Project Work shall be based on the evaluation of the Project Report, Project Presentation skill, and Viva-voce in the ratio of 50:25:25.
- 3)The marks awarded for the Project report shall be the same for all the students of the batch.
- 4)The Head of the Department shall make arrangements for the conduct of Viva-Voce for evaluation of the project work. The committee shall consist of the faculty guide/mentor and two senior faculty members of the Department and the most senior among them shall be the Chairperson.
- 5)The faculty guide/ mentor guiding the project shall Evaluate the performance for 50% of the maximum marks of CIE for the report.
- 6)This committee shall evaluate Project Work for 50% of the maximum marks considering the project presentation and question-answer session.
  - a)Project presentation: 25% of maximum marks
  - b)Question and answer session: 25% of maximum marks

#### **A6.2. SEE Assessment in Specific Courses:**

##### **A 6.2.1. Theory Course with 4, 3 and 2 Credits**

The SEE for theory courses shall be conducted by the College as per the scheduled timetable for all, with common question papers for the course. The duration of examination shall be three hours.

- 1)The question paper will have ten questions. Each question is set for 20 marks.

The medium of the question paper shall be ENGLISH unless otherwise it is mentioned.
- 2)There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), should have a mix of topics under that module.
- 3)The students have to answer 5 full questions, selecting one full question from each module.
- 4)Marks scored will be proportionally scaled down to 50 marks.

##### **A 6.2.2. Integrated Courses (I/C)**

Integrated Professional Core Courses (IPCC) For a course where theory is integrated with Laboratory course, the SEE duration for the theory part shall be three hours, as specified in section clause **7.3.**



(Semester End Examination) However, the question paper in the SEE examination shall include at least one question from the Laboratory component.

#### **A 6.2.3.Theory Course with 1 Credit**

The SEE question paper shall have MCQ (Multiple Choice Questions) set for 50 questions, each carrying one mark. The time duration for SEE is one hour.

#### **A 6.2.6. Practical Work Courses**

- 1) The SEE marks for the practical courses shall be 50 Marks.
- 2) SEE shall be conducted jointly by the two examiners of the University/ College appointed by the University.
- 3) All laboratory experiments are to be included for practical examination.
- 4) Breakup of marks and the instructions printed on the cover page of the answer script are to be strictly adhered to by the examiners. OR

Based on the course requirement, a split-up of marks for evaluation shall be decided jointly by the examiners.

- 5) Students shall pick one question (experiment) from the questions pool prepared by the examiners jointly.
- 6) Evaluation of write-up/ conduction procedure and result/viva will be conducted jointly by the examiners.
- 7) The split- up of maximum allocated marks for SEE are:
  - a) Procedure/write up 20 %,
  - b) Conduction and result in 60%,
  - c) Viva-voce 20%
- 8)SEE for the practical course shall be evaluated for 100 marks and scored marks shall be scaled down to 50 marks.
- 9)Change of experiment is allowed only *once* and 20% Marks allotted to the procedure/write-up part to be made zero (Evaluation is to be carried out for 80% of total maximum marks).
- 10)The duration of SEE shall be two or three hours.

#### **A 6.2.7. Internship**

- 1)SEE shall be conducted by the Internal and external examiners approved by the University. The internal examiner shall be the guide for SEE. The external Guide for the Internship shall be the external examiner for SEE.
- 2)Examination for internship shall be conducted at the college and the date shall be fixed in



consultation with the External Guide. The Examiners shall jointly award the SEE marks.

- 3) In case the external Guide expresses his inability to conduct the Examination at the last moment, the Principal/Chief Superintendent appointed by the College for the concerned examination of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide.
- 4) Split up of marks for evaluation may be the same as suggested for CIE or Internal and external examiners shall devise split up of marks for SEE and the same may be submitted to the University along with evaluation marks.

#### **A 6.2.8. Project Work**

- 1) The project work shall be evaluated for 200 marks with CIE of 100 marks and SEE of 100 marks.
- 2) The Project Work will be conducted by the two examiners one internal and one external examiner appointed by university.
- 3) SEE marks for the project shall be awarded using appropriate Rubrics based on the quality of work & report, presentation skills, and viva-voce in the ratio 50:25:25 respectively.



**Annexure —V:**

**Guidelines and Successive Activities under Activity Points**



## Annexure –VI:

### Guidelines for Honors and Minors Degree

For Honours VTU/BGM/ACA/2023/2168 Dated 24<sup>th</sup> July 2024

Minor Degrees : VTU/BGM/BOS/SO2/2021-22/2115 Dated 12<sup>th</sup> July, 2022.

## ANNEXURE-VII

### SUGGESTIVE EVALUATION METHODS

#### **Rules and guidelines to be followed to evaluate the Continuous Internal Evaluation(CIE) and Semester- End Examination(SEE) for 2022-2023 onwards (2022 Series)**

As per the VTU revised circular dated 13th June 2023 with reference VTU/BGM/Aca/BoS/2023/1335 the evaluation procedure which is outlined earlier for the scheme 2022 is valid only for the first semester and is no longer valid for the second semester onwards.

The following are the guidelines to be adopted for the evaluation of Continuous Internal Evaluation (CIE) and Semester End Examination (SEE) for the scheme 2022 from the Second Semester Level.

#### **GENERAL GUIDELINES FOR CIE AND SEE**

- The weightage of the Continuous Internal Evaluation (CIE) is 50% and for the Semester End Examination (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 Marks out of 50) The minimum passing mark for the SEE is 35% of the maximum marks (18 out of 50). The student is declared as a pass in the course if he/she secures a minimum of 40% (40 marks out of 100) in the total sum of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination).
- The evaluation system of the program is comprehensive and continuous during the entire period of the semester by the faculty who is teaching the course.





**I) CIE AND SEE FOR THE INTEGRATED PROFESSIONAL CORE COURSE (IPCC) WITH 4 CREDITS L-T-P (3-0-2) / (2-2-2)**

**a) CIE THEORY COMPONENT**

The CIE theory component constitutes of

- CIE - Internal Assessment Test with maximum 15 marks with minimum passing 6 marks
- CIE - Continuous and Comprehensive Assessment with maximum 10 marks with minimum passing 4 marks
- There shall be three Continuous Internal Evaluations (CIE)
- The CIE Question paper shall be set for a maximum of 30 marks with questions having a maximum of three bits.
- The question needs to be framed covering the entire syllabus (33%) completed before the consecutive CIEs.
- The cumulative marks of the three CIE is to be divided by 6 to reduce the final CIE marks to a maximum of 15 marks and the minimum passing mark for this is 6.
- Another 10 marks are dedicated to other assessment tools with suitable weightage for each, that include quizzes, assignments, mini-projects, presentations, case studies, surveys, group discussions, slip tests, etc, and the minimum passing mark for this is 4. (If the assessment is mini-project based then only one assessment method may be adopted or otherwise, any two assessment tools may be used. The assessment tools must be discussed and got approved by the concerned HoD before the commencement of the course).
- The laboratory component of the IPCC shall be for CIE only no SEE

**b) CIE PRACTICAL COMPONENT**

The CIE practical component constitutes of

- CIE Practical with maximum 15 marks and minimum passing 6 marks
- CIE Practical Test with maximum 10 marks and minimum passing 4 marks
- The maximum marks dedicated for conducting the experiments and preparation of laboratory records is 15 with minimum passing marks 6.
- The final CIE practical test for 50 marks to be conducted after completion of all the experiments and the scored marks is reduced to the maximum of 10 with minimum passing marks 4.

**The maximum marks for both CIE theory and Practical is 50 and minimum passing marks is 20.**



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**II) CIE AND SEE FOR THE COURSE WITH 03 and 02  
CREDITS L - T - P - (3 - 0 - 0) / (2 - 2 - 0) / (2 -  
0 - 0) / (1-2-0)**

**a) CIE FOR 03 CREDIT PROFESSIONAL CORE COURSE**

The CIE theory component constitutes of

- CIE IA Test with maximum 25 marks and minimum passing 10 marks
- CIE CCAs with maximum 25 marks and minimum passing 10 marks
- There shall be three Continuous Internal Evaluations (CIE) for the courses with 03 and 02 credits.
- The CIE Question paper shall be set for a maximum of 30 marks with questions having a maximum of three bits.
- The question needs to be framed covering the entire syllabus (33%) completed before the consecutive CIEs.
- The cumulative marks of the three CIE is to be divided by 3.6 to reduce the final CIE marks to a maximum of 25 marks and the minimum passing mark for this is 10.
- Another 25 marks are dedicated to other assessment tools with suitable weightage for each, that include quizzes, assignments, mini-projects, presentations, case studies, surveys, group discussions, slip tests, etc, and the minimum passing mark for this is 10 (If the assessment is mini-project based then only one assessment method may be adopted or otherwise, any two assessment tools may be used. The assessment tools must be discussed and got approved by the concerned HoD before the commencement of the course)

**b) CIE FOR 3 CREDIT INTEGRATED PROFESSIONAL CORE COURSE**

**L - T - P - (2 - 0 - 2) / (1 - 2 - 2)**

- For the the courses with 03 credits of integrated type, the method suggested for the course with 04 credits (IPCC) shall be followed.

**c) CIE FOR THE LABORATORY COURSE WITH 02 CREDITS**

- Maximum of 30 marks is allotted for Practical CIE (Continuous Internal Evaluation) for conduction of experiments and preparation of laboratory records etc with minimum passing marks 12.
- The test after all experiments conducted for 50 Marks needs to be reduced to 20 and the minimum passing mark is 08.
- The maximum marks for total CIE+SEE is 100 and minimum passing marks is 40.



### III) CIE FOR THE COURSES WITH 01 CREDIT

#### a) CIE THEORY COMPONENT

The CIE theory component constitutes of

- CIE IA Test with maximum 25 marks and minimum passing 10 marks
- CIE CCAs with maximum 25 marks and minimum passing 10 marks
- There shall be two Continuous Internal Evaluations (CIE) for 1 Credit course. First test after the completion of 40-45% of the syllabus and the second test after the completion of 80-90% of the syllabus.

One improvement test before the closing of the academic term may be conducted if necessary.

- The CIE Question paper shall be set for a maximum of 30 marks with questions having a maximum of three bits.
- The cumulative marks of the two CIE is to be divided by 2.4 to reduce the final CIE marks to a maximum of 25 marks and the minimum passing mark for this is 10.
- Another 25 marks are dedicated to other assessment tools with suitable weightage for each, that include quizzes, assignments, mini-projects, presentations, case studies, surveys, group discussions, slip tests etc, and minimum passing marks for this is 10. (Any two assessment tools may be used. The assessment tools must be discussed and got approved by the concerned HoD before the commencement of the course)

#### b) CIE FOR THE LABORATORY COURSE

- Maximum of 30 marks is allotted for Practical CIE (Continuous Internal Evaluation) for conduction of experiments and preparation of laboratory records etc with minimum passing marks 12.
- The test after all experiments conducted for 50 Marks needs to be reduced to 20 and the minimum passing mark is 08.
- Maximum of 50 marks is allotted for the practical SEE with minimum passing marks 20.

#### c) SEMESTER END EXAMINATIONS

- The SEE theory exam to be conducted for 50 marks with minimum passing marks 18.
- The SEE question paper with Multiple Choice Question (MCQs) type is set for 50 questions each of the 01 marks.

**Note:** Faculty has to ensure that all the course outcomes of a course are covered with equal weightage as far as possible in the assessment tools selected for assessment of student's performance through CIE.