HKE SOCIETY'S

PDA COLLEGE OF ENGINEERING, KALABURAGI

(Autonomous Institute Affiliated to VTU, Belagavi)

ACADEMIC RULES AND REGULATIONS

Applicable to all Autonomous Programmes

(B.E. and M.Tech)

(With Effect from August 2021-22 Academic Year)

Academic Rules and Regulations*
(With Effect From the Academic Year 2021-22)

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1. SHORT TITLE AND COMMENCEMENT

1.1 The regulations listed under this head are common for all programmes offered by the college and are amended based on the **Visveswaraya 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 2021-22.

1.2 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.

2. DEFINITIONS

a) "University" means Visvesvaraya Technological University (VTU).

b) "College" means Poojya Doddappa Appa College of Engineering (PDACE).

c) "Commission" means University Grants Commission (UGC).

d) "Council" means All India Council for Technical Education (AICTE).

e) "Statute" means VTU Autonomous College Statute, 2006.

f) "Academic Autonomy" means freedom granted by the University to a College in all aspects of conducting its academic programmes for promoting academic excellence.

g) "Autonomous College" means a college notified as an autonomous college as per the VTU Autonomous College Statute, 2006.

h) "Regular Students" means students who are admitted to the first year of the respective programme.

i) "Lateral Entry" means students who are admitted to the third semester of the respective programme (Undergraduate Engineering Programme).

j) "Branch" means specialization in a programme like B.E. degree programme in Civil Engineering or B.E. degree programme in Computer Science and Engineering etc.

k) "Course" means a subject either theory or practical identified by its title and code number.

3. 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 programmes 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 21st century 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.**

4. ACADEMIC PROGRAMMES

4.1 General

a) The Academic Autonomy is applicable for all programmes offered by the college: B.E. Degree programmes at Undergraduate (UG) and M. Tech. programme at Post Graduate (PG). The programmes 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 programmes with the approval of its Academic Council. The issuance of certificates/ diplomas on completion of such programmes 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 programmes 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. 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 UG course in Architecture shall be called as degree course in Bachelor of Architecture abbreviated as B.Arch. The course will extend over a period of five years duration which will be divided into ten semesters.

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

Table 1A: Programmes of study for B.E. Courses

Sl. No.	Name of the Programme	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.	Architecture	AT	1982
8.	Ceramic and Cement Technology	CC	1984
9.	Computer Science and Engineering	CS	1984
10.	Automobile Engineering	AU	1985
11.	Information Science and Engineering	IS	2000
12.	Computer Science and Design	CG	2021
13.	Artificial Intelligence and Machine Learning	AI	2021

4.3. 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 of M. Tech programmes offered by the college.

Table 1B: Specializations offered for M. Tech. courses

Sl. No.	Department	Name of the PG Programme	Abbreviation	Established
1.	Civil Engineering	Structural Engineering	**CSE**	**1987**
2.		Environmental Engineering	**CEE**	**1982**
3.	Mechanical Engineering	Thermal Power Engineering	**MTP**	**1982**
4.		Production Engineering	**MPE**	**1992**
5.	Electrical Engineering	Power Electronics	**EPE**	**1982**
6.	Electronics & Communication Engineering	Communication Systems	**LCS**	**1995**
7.	Computer Science & Engineering	Computer Science & Engineering	**SCS**	**1998**
8.		Computer Network & Engineering	**SCN**	**2014**
9.	Electronics and Instrumentation Engineering	Biomedical Electronics and Industrial Instrumentation	**LMI**	**2000**
10.	Ceramic & Cement Technology	Material Science and Technology	**MST**	**2014**

The College offers Doctor of Philosophy (Ph.D) under University. The research centres recognized by the University are listed in Table 1C.

Table 1C: Research Centres offering PhD

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

4.4 Programme Duration

a) **Normal Duration:** The normal duration of fulltime academic programme is the same as that followed by the University, i.e., four years for B.E., two years for M.Tech., five years for B. Arch, one year for Diploma and six months for Certificate programmes.

b) **Prescribed Credits:** As a flexible credit system is followed for coursework, it is to be noted that the programme duration in the case of UG and PG shall also be dictated by the period in which a student earns the prescribed credits for the award of Degree. Hence, it is possible for an outstanding student to earn the required credits in a shorter time than that ordinarily prescribed for the relevant programme in (a) above.

c) **Add-on courses:** In such cases, the College provides opportunity for such a student to register for Add-On courses being conducted at the College or to take up suitable internship until completion of the prescribed programme duration.

d) **Maximum Duration:** The maximum period which a student can take to complete a fulltime academic programme shall be the same as that prescribed by the University from time to time; e.g., double the normal duration of the programme, i.e., eight years for B.E., four years for M. Tech., ten years for B. Arch, two years for Diploma and one year for Certificate.

e) Besides, the maximum period for a programme is also be dictated by the fact that a student has to demonstrate the specified minimum academic performance by registering for the prescribed minimum number of credits in every semester for continuing with the programme. And, this period can be equal to or smaller than the maximum period indicated as in (d) above.

f) Total duration of the of B. E. (Regular) Programme is four academic years

g) Each academic year of study is divided into two semesters.

h) Minimum number of instruction days in each semester is 90.

i) There shall be mandatory student induction program for freshers, with a three-week duration before the commencement of first semester. Physical activity, Creative Arts, Universal Human Values, Literary,

Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations etc., are included as per the guidelines issued by AICTE.

j) All undergraduate students shall register for NSS activities. A student will be required to participate in an activity for two hours in a week during third and fourth semesters. Grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet based on participation, attendance, performance, and behaviour. If a student gets an unsatisfactory grade, he/she shall repeat the above activity in the subsequent years, to complete the degree requirements

k) Lateral Entry students of all branches shall undergo mandatory bridge courses for zero credits in Mathematics

l) Increased flexibility for students through an increase in the elective component, with 03 Professional Elective courses and 03 Open Elective courses and MOOCS.

m) Professional Elective Courses, include the elective courses relevant to the chosen specialization/branch. Proper choice of professional elective courses can lead to students specializing in an emerging area within the chosen field of study.

n) Student can opt for any open elective other than open elective offered by his/her own department. While choosing the electives, students shall ensure that they do not opt for the courses with syllabus contents similar to that of their departmental core/elective courses.

o) A pool of interdisciplinary/job-oriented/domain skill courses which are relevant to the industry are integrated into the curriculum of all disciplines. These courses are called Ability Enhancement Courses. There shall be 07 skill-oriented ability enhancement courses offered during I to VII semesters.

p) Students shall undergo mandatory summer internships, for a minimum of three weeks duration at the end of first year and four weeks duration at the end of second year of the programme. There shall also be mandatory full internship at the end of third year of the programme. The duration for this internship is 24 weeks.

q) Undergraduate degree either with Honours or a Minor is introduced for the students having good academic record

r) As per the UGC guidelines, the Institution shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning platforms.

s) Each college shall assign a faculty advisor/mentor after admission to a group of students from same department to provide guidance in courses registration/career growth/placements/opportunities for higher studies/GATE/other competitive exams etc.

t) The institution has prepared itself during Covid-19 pandemic to conduct all academic activities online whenever required. Some of the courses are taught in blended mode.

5. ELIGIBILITY FOR ADMISSION

5.1. For B.E Program

Admission to I year, (I & II semester) B.E. degree, shall be open to the candidates who have passed the second year Pre- University or XII standard or equivalent examination recognized by Govt. of Karnataka and VTU Belgavi. Admission to II year, (III semester) (Lateral Entry) shall be open to the candidates who are holders of a Diploma or equivalent examination recognized by Govt. of Karnataka and VTU Belgavi Candidates are required to satisfy the conditions of admission thereto prescribed by the Government of Karnataka and VTU Belagavi

5.2. For M. Tech. Program

Candidates for admission to the first semester of M. Tech. degree program shall be required to have passed an appropriate degree examination of VTU or any other examination of any recognized university or authority accepted by VTU as equivalent thereto. Candidates are required to satisfy the conditions of admission thereto prescribed by the Government of Karnataka and VTU, Belagavi.

5.3. For B. Arch. Program

Admission for the first year B. Arch. course shall be open to the students who have passed the two year Pre - University examination conducted by the Karnataka State Pre - University Board (including arts/ commerce stream) provided mathematics, as one of the compulsory subject at the qualifying exam or 10+2 of the Central Board of Secondary Education (C.B.S.E) or those who have passed any other examination recognized by the Govt. of Karnataka and VTU Belagavi, provided they meet the minimum standards laid down by the Council of Architecture (CoA).

The three year Diploma holders in Architecture / Civil / or any other branch, who have secured not less than 50% of the total maximum marks in the final examination of the Diploma course are eligible for admission to the first year of the course. However, there shall not be any exemption of any subject at the B. Arch degree course. All the candidates seeking admission to B.Arch. shall pass NATA exam (National Aptitude test in Architecture) conducted by the Council of Architecture at Department. of Arch or any other NATA test center in India (Minimum Passing: 40%) (These norms will be subject to change as per the notification of CoA).

6. STRUCTURE OF ACADEMIC YEAR

The academic year consists of three semesters, two main semesters (odd and even) and one supplementary semester. The courses of odd semester will be offered in odd semesters and those of even semesters, in even semester. On the other hand, during supplementary semester both odd and even semester courses will be offered.

6.1. Academic Calendar

Academic calendar containing details such as dates for registration, dropping of courses, schedule of exams, announcement of results, grading advisory committee meeting, industrial visits, etc are specified at the beginning of the academic year. The breakdown of an academic year for implementing the Semester Scheme is given in Table 2 as a typical example, consisting of two regular semesters and a Supplementary semester in an academic year.

Table 2: Typical Breakdown of Academic Year into Semesters

Sl. No.	Activity	Description	
1.	Number of semesters in an academic year	Two regular semesters (Odd & Even) and a Supplementary Semester (Refer 6.2). For the First semester BE programme there is a three-week induction programme at the beginning	
2.	Semester Duration (Weeks)	**Main Semesters (Odd/Even): 19 weeks each** **Supplementary Semester: 08 weeks**	
3.	Semester Academic activities (Duration in weeks)	**Main Semester**	**Supplementary Semester**
	Registration of Courses	**0.5**	**0.1**
	Course Work	**15.5**	**7**
	Examination preparation	**1.0**	**0.2**
	Examination (SEE)	**1.0**	**0.2**
	Declaration of Results	**1.0**	**0.5**
	Total	**19**	**8**
	Inter-Semester Recess	**After each Main semester: 2 weeks** **After Supplementary Semester – 1 week**	
4.	Evaluation	Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), both have equal	

		weightage in the student's performance in Course/Laboratory Work and other activities
5.	Other Items	Academic schedules prescribed by the College shall be strictly adhered to by all the concerned
		Students failing in any Course(s) shall register for the same again (re-register) and shall secure CIE and SEE afresh in each course(s). This shall continue until a pass grade is obtained in the said course(s).
		Semester Recess : After each Main Semester: 2 week
6.	**A Typical Calendar**	1st Main Semester (Odd Semester): 1st August – 17th December, 19 weeks Recess: 18th December – 31st December, 2 weeks 2nd Main Semester (Even Semester): 1st January – 17th May, 19 weeks Recess: 18th May -30th May (2 weeks) Supplementary Semester: 1st June – 25th July, 8 weeks Recess: 26th July – 31st July (1 Week) Total 52 weeks

6.2. Supplementary / Summer Semester

Supplementary/Summer semester is of 8 weeks duration. Supplementary semester is optional; it is for the students to make best use of the opportunity. Supplementary semester is a special semester and students cannot demand it as a matter of right.

The students who have satisfied CIE and attendance requirements for the course/s and obtains F grade in SEE are permitted to appear directly in ensuing examination/s as backlog paper/s. The students need not re-register for such course/s in the supplementary semester. In case the student wishes to improve CIE he/ she have to re-register for supplementary semester as and when offered next.

The students who obtains required attendance and CIE in supplementary semester, but obtains F grade in SEE, is permitted to appear for SEE subsequently as backlog course/s. The student need not repeat course for attendance and CIE.

In the supplementary semester, registration for courses will be strictly limited to the students who have obtained NE grade in any subject(s) earlier and for those who have dropped the subjects (withdraw). Certain value added courses are also offered in summer semester. In a summer semester, a student can register up to a maximum of 16 credits. A value add-on course will run only if there is a minimum registration of 5 students.

A student of UG programme will have opportunity to register for supplementary semester which is offered after 4^{th} semester for courses from 1^{st} to 4^{th} semester and after 8^{th} semester for courses from 6^{st} to 8^{th} semester. For registering to supplementary semester, the student should complete the internship/s as notified. The students opting for supplementary semester between 4^{th} and 5^{th} semester must comply the missed internship requirement in the subsequent semester in the gap between 5^{th} and 6^{th} semester.

A list of subjects offered in the summer semesters announced at the beginning of the summer semester. Students have to register for the subjects before the last date prescribed for the registration by remitting the prescribed fee. In view of the short duration of summer semester late registration, adding and dropping of subjects are not allowed.

6.3. Course Registration

A student shall register for courses (core or elective) to earn credits for meeting the requirements of a Degree/ Diploma/Certificate programme. 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.

6.4 Academic Schedules

The calendar includes important academic activities to assist the students and the faculty. These include, dates assigned for registration of courses, dropping of courses and withdrawal from courses. This enables the students to be well prepared, minimize their chances of failure in CIE and/or SEE and take full advantage of the flexibility provided by the credit system.

6.5 Induction programme as per AICTE guideline

There is a 3-week long induction programme for the UG students entering the institution, right at the start. Normal classes start only after the induction programme is over. The purpose of the Student Induction Programme is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self-exploration. At the start of the induction, the students learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them and the society at large.

6.6 Dropping of Courses

A specific time period is fixed, e.g., in the middle of a semester for this purpose to be based on the review to be conducted of students' performance in CIE by the concerned faculty advisor. The review to mainly assist the students having poor performance to be facilitated to drop the identified course(s) (up to the minimum credits specified for the semester) without being mentioned in the Grade Card. Such Courses to be re-registered by these students and taken up for study at a later semester in the programme.

6.7 Withdrawal from Courses

A specific time period shall be identified by the College towards the end of a semester to help review the students' performance in CIE by the faculty advisor, followed by the students having poor performance to withdraw from identified course(s) (up to the minimum credits specified for the semester) with mention in the Grade Card (Grade 'W'). Such Courses to be re-registered by these students and taken up for study at a later semester in the programme.

6.8 Audit Courses

In Addition, a student can register for courses for audit only with a view to supplement his/her knowledge and/or skills. Here also, the student's grades shall have to be reflected in the Grade Card. But, these shall not be taken into account in determining the student's academic performance in the semester. In view of this, it shall not be necessary for the College to issue any separate transcript covering the audit courses to the registrants at these courses.

7. CREDIT SYSTEM

The college follows a credit system, for curriculum planning in which each course has a certain number of credits assigned to it depending upon its lecture, tutorial and laboratory contact hours in a week. A few courses are without credit and are referred to as non-credit (NC) courses.

7.1. General

The institution follows a Choice Based Credit System (CBCS) from the academic year 2008-09 onwards. The students have an option of choosing from a wide range of electives (department, cluster and institutional, MOOCs) and complete the programme at their own pace. Value added courses are also offered as a part of extended learning in inter-disciplinary and multi-disciplinary domains. Thus the CBCS facilitates continuous learning and assessment. The CBCS for the various programmes provides a great opportunity to the students in their preparation to meet the challenging opportunities ahead.

7.2 Major Benefits

Major benefits accruing by adopting the Credit System are listed below:

- Quantification and uniformity in the listing of courses for all programmes at a College, like core (hard/ soft), electives and project work.
- Ease of allocation of courses under different heads by using their credits to meet national /international practices in technical education.
- Convenience to specify the minimum/ maximum limits of course load and its average per semester in the form of credits to be earned by a student.
- Flexibility in programme duration for students by enabling them to pace their course load within minimum/ maximum limits based on their preparation and capabilities.
- Wider choice of courses available from any department of the same College or even from other similar Colleges, either for credit or for audit.
- Improved facility for students to optimize their learning by availing of transfer of credits earned by them from one College to another.

In the Credit System, the course work of students is unitized and one credit is assigned to each unit after a student completes the teaching-learning process as prescribed for that unit (credit) and is successful in its assessment.

7.3 Credit Structure

A typical Credit Structure for course work is given in Table 3. This shall be applicable for the coursework of students registered for all programmes offered by the institution.

Table 3: Typical Credit Structure for Course Work

Lectures (Lec) (hrs/wk/Sem)	Tutorials (Tut) (hrs/wk/Sem)	Lab. Work (Lab) (hrs/wk/Sem)	Credits (Lec:Tut:Lab)	Credits (Total)
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	6	0:0:3	3

- Lectures : One Lecture hour per week one credit.
- Tutorials : Two Tutorial hours per week one credit.
- Practical : Two Practical hours per week one credit.
- Studio : One & half Studio hour per week one credit.
  (Studio is only for Architecture students)

However, in case of Supplementary semester, the course load is multiplied by two. These regulations form the basis to fix semester course load & weekly contact hours in the regular/Supplementary semesters.

Note: Other student activities like study tours, industrial visits, guest lecturers shall not carry any credits

Thus, it is more appropriate to specify the eligibility requirements for award of Degree based on course work (like UG, PG) by prescribing the total number of credits to be earned, as an alternative to specifying the Programme Duration. This will be of great help in providing the well-needed flexibility to the students in planning their academic programmes and their careers.

7.4 Credits to be earned for award of degree

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 Table 4.

Table 4: Total Credits to be earned for Award of Degree

Programme		Normal Duration		Total number of Credits to be Earned
		Years	Semesters	
UG Degree	B. E.	4.0	8	160
	B. E. (Lateral Entry)	3.0	6	120
	B. Arch.	5.0	10	260-300 (As per CoA)
PG Degree	M. Tech.	2.0	4	88

7.5 Course Load

The average Course load in the College is fixed at 20 Credits/Semester with its minimum and maximum limits being set at 16 and 28 credits respectively. A faculty advisory system is established in the college with each faculty advisor being assigned a group of students. With the faculty advisory system in place, a student to be normally permitted to register for the average course load in the first semester. And, based on the performance in the semester and faculty advise, he/she to continue with this load or to reduce it to the minimum permissible for slow learners by dropping of/withdrawing from some course(s)/credits before the dates prescribed for these. This facility help students to pace the course work, minimize the chances of failure in the course and optimize the learning process.

8. CURRICULUM

The curriculum comprises courses of study in accordance with the prescribed syllabi as given in the scheme of teaching and examination for each programme.

8.1 General Issues

(a) Curriculum Framework is important in setting the right direction for a Degree/ Diploma/Certificate programme by the College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen branch or specialization area.

(b) Besides, this also helps in assigning the credits for each course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and the total number of credits to be earned by a student to fulfill the requirements for the conferment. The College takes into account the AICTE Model Curricula notified from time to time and follow them so as to be abreast of the national trends in this connection.

(c) At the time of graduation, the minimum expected skills in every graduating engineer, for global acceptance is defined by NBA, through the Programme Outcomes (POs). The POs are primarily developed through the

curriculum, the Course Outcomes (COs) of various courses of the curriculum. Hence, the expected skills to be developed through the POs forms an important factor during curriculum design.

(d) Another guiding factor for curriculum design is to ensure it meets global standards, which are defined through the expectations and the competencies that need to be addressed for every engineering discipline through the Programme Specific Criteria (PSC) recommendations by Accreditation Board for Engineering and Technology (ABET). This is addressed through the Core Courses of the curriculum as every graduating engineer possess the expected core competency.

8.2. Curricular Components

8.2.1. Recommended Courses: The curriculum of B.E degree includes courses in the following categories:

- Basic science courses (BSC) (Mathematics, Physics, Chemistry);
- Engineering science courses (ESC) (Materials, Workshop, Drawing, Computers);
- Humanities and social sciences, including the Management courses (HSMC);
- Professional core courses (PCC) relevant to the branch
- Professional Elective courses (PEC)
- Industrial Elective courses (IEC)
- Ability Enhancement Courses (AEC)
- Universal Human Value Courses (UHV)
- Open Elective Courses (OEC), from other technical and/or emerging subject areas;
- MOOCS/ online courses
- Project work, Mini Project, Seminar and Practical training from industries
- Internship (INT)
- Institutional core courses like Communication skills, Soft Skill, Aptitude (Recruitment Process Training), Constitution of India, Environmental studies, Intellectual Property Rights etc.
- Audit courses (Non credit)

8.2.2. Mandatory Courses(MC) and Other Requirements: The subjects like Environment Studies, Constitution of India, Communication Skills are introduced as in each such course during the program is necessary requirement for the student to qualify for the Degree.

8.2.3 Induction Program and Internship: A 3 week Induction Program is included for the first-year B.E. students at the beginning of their 1st Semester, as per the requirements of AICTE. There is also a mandatory requirement of Internship at the end of first year, at the end of second year and during final year.

8.2.4 Recommended Courses for B. Arch.: The curriculum of B.Arch. degree includes the following categories.

- Basic & Architectural Design, Visual Arts, Art Appreciation, Interior Design, Architectural Design Project
- Building construction & Materials, Working Drawing
- Graphics
- History of Architecture (Early Civilizations- Art, Culture & Architecture) (European) (Indian) (Islamic) (Modern) (Contemporary Arch)
- Structure, Estimation & Costing, Earthquake Resistant Architecture, Construction Management, Structural design project
- Computer applications in Architecture
- Building Service (Ventilation system, Vertical transportation & fire) (Acoustics) (electricity & illumination) (water supply & sanitation)
- Specialized disciplines such as Town Planning, Climatology, Landscape Architecture,
- Professional Practice
- Electives - I & II (including relevant interdisciplinary courses)
- Professional Training at VII sem level of one full term
- Vacation Assignment / MDD / study tour
- Other courses such as Sociology & Economics, Communication Skills, Workshop-I (carpentry, clay & masonry) (Arch model making) and Constitutional Law.

8.2.5 Allocation of Credits for B.E. Degree Programme: Looking at the UG Engineering Degree programmes practiced at leading institutions in India and abroad and the need for Indian engineering professionals to be able to meet the 21st century challenges, the breakdown of coursework is given in Table 5. It is expected that this breakdown leads to a highly useful and respectable B.E. Degree programme under the University.

Table 5: A Typical Breakdown for the B.E./B. Tech. Degree Curriculum

Course Category	Code	Average number of credits (Typical)
Humanities, Social Sciences and Management	HSMC	10
Basic Sciences	BSC	23
Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	ESC	20
Professional Courses (PCC) – Core	PCC	43
Professional Elective courses relevant to chosen specialization/branch/ Ability Enhancement Courses	PEC	14
Open subjects – Electives from other technical, emerging, arts commerce and NCC/NSS subjects/ Ability Enhancement Courses	OEC	14
Mini and Major Project work /seminar/ Summer Internship and Research /Industrial Internship	PROJ/INT	32
Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Universal Human Values, Kannada]		04
Total		160

* Slight variation in credits of different categories as recommended by respective BoS is permitted.

a) Additional Mandatory Courses for lateral entry BE students: In addition to the non-credit mandatory courses for regular BE students, the lateral entry students shall take up the following two non-credit mandatory bridge courses in Mathematics (one in 3rd semester and one in 4th semester) courses as listed in Table 6. The student shall pass the following non-credit mandatory/HSS courses for the award of the degree and must clear these bridge courses as per VTU guidelines.

Table-6: Additional Mandatory Courses for lateral entry

Sl. No.	Additional Mandatory Courses for Lateral Entry Students of BE Programme
1.	Dip-Mathematics-1
2.	Dip-Mathematics-2

a) Sequencing of Courses for B.E. Degree: The above breakdown of the B.E. Degree curriculum shall form the basis for proper sequencing of the coursework for the programmes. Based on this, a typical sequencing plan for coursework for B.E. Degree programme is given in Table 7. College also takes into account the provisions in the AICTE Model Curriculum while finalizing the sequencing of courses.

Table 7: Typical sequencing of curricular components for the B.E programme

Semesters	Course Categories
I-II	• HSMC, BSC, AEC and ESC, Common for all Programmes *as per AICTE Model Curriculum.* • MC and Mandatory *Induction Programme (3 weeks).*
III-IV	• HSMC, BSC, AEC and ESC, Common for all Programmes (to be continued). • Also, MC (to be continued, if required). • PCC: In two/three groups (*like Circuit, Non-Circuit).* • Area-wise Orientation, Add-On Courses.
V-VII	• PCC/PEC/OEC, Core and Electives. • Branch-wise Orientation, Add-On Courses, Seminar, Internship.
VIII	• PEC/OEC, Electives, Project work (PROJ), Dissertation. • Add-On Courses, Seminar, Final wrap-up of Programme.

8.3 PG Degree Programmes (M.Tech. Programmes)

The College offers PG programmes in Engineering leading to M. Tech, degree. Typical allocation of credits for the programme is given in Table 8. Here, hard core includes all compulsory Courses, whereas soft core covers a choice to be made from among the suggested compulsory Courses. The credit range for each category is based on the guidelines from the University (2018) and the AICTE model curriculum (2018).

Table 8: Typical Credits distribution for the M.Tech. Programme

Course Category*	Percentage (%) of total Credits		Average number of credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	15	25	22
Electives (Specialization/Other)	25	35	30
Project Work	30	45	30
Industrial Internship, Seminar& Field Work	5	10	06
Total			**88**

8.4 Electives

Candidates are required to opt for electives from the list of electives relating to their branch (Programme) of study as given in the scheme of teaching. However, a candidate is permitted to take electives from other branches with the permission from the concerned heads of departments. The minimum number of students to be registered for an elective to be offered shall not be less than six. The candidate shall register for electives at the beginning of the semester. However, they are permitted to change an elective within 15 days from the date of commencement of the semester.

8.5 Seminar and Project work

The seminar topic shall be selected from the emerging areas, related to the branch of study. For the B.E course, project work shall be completed batch-wise; the batch size shall consist of a minimum of 2 and a maximum of 4 students. Each batch of students is required to undertake a suitable project in an industry

or in the college in consultation with the faculty guide and head of the department. The batch is required to present two seminars on the progress of the project during VII and VIII semesters prior to viva voce. Student of each batch shall submit a project report at the end of the final semester on the dates announced by the department. Viva voce will be conducted batch-wise after the submission of the report.

For the M. Tech. course, every candidate shall submit report on project work phase-I at third semester level and project work phase- II at fourth semester level, on the date announced by the college / department the respective semesters. Every candidate shall also present seminar in each of the relevant semester about the project work The seminar shall be presented before a review committee constituted by the head of the department In case of project work phase-II, the viva-voce examination will be carried-out by a team consisting of an internal examiner, usually the supervisor and an external examiner appointed by Board of Examiners Chairman/HOD in consultation with PG coordinators. Due weightage will be given to the publication arising out of the project work during the evaluation of the project work. Viva-voce examination will be conducted only, if the candidate has completed all the prescribed courses at first, second and third semester. Phase 1 is a pre-requisite for Phase 2, hence, the students will not be permitted to register for Project Phase2 until he/she completes Project Phase 1 successfully.

For B.Arch course, for the Architectural Design Thesis Project, each candidate of l0th semester shall submit at least three synopses, one of which will be selected by committee comprising thesis coordinator, HoD and 1-2 senior faculty members. The candidate shall undergo at least 3 to 4 juries involving practicing architects.

8.6 Overlapping/ Equivalent Courses

Wherever applicable, for a given course overlapping and equivalent courses are identified. A candidate is not permitted to register the overlapping/equivalent courses.

8.7 Vacation Assignment /Study Tour for B. Arch course

Vacation assignment/study tour is compulsory in the vacation between 2nd and 3rd semester and between 4th and 5th semester. Vacation assignment could be a noted building of architectural importance. Study tour could involve visit to places of architectural interest and submitting a report. The exact choice of the assignment and the places to be visited during the study tour is decided upon the Head of Department or a team of experts constituted for the purpose. The assignment may be given as group work (consisting 4-6 students). The student shall submit a report within 15 days from the beginning of the 3rd semester or the 5th semester as the case may be. The reports are to be assessed by the faculty in the department, which shall form the continuous assessment for subjects with code AR 309 and AR 509.

8.8 NSS/Red Cross

All the candidates admitted to B.E /B.Arch courses are encouraged to enroll for NSS/Red Cross in their first year.

9. ASSESSMENT

The performance of a student in each semester shall be evaluated subject wise with a CIE and SEE with equal weightage. Internships shall be evaluated for 100 marks with only CIE component, Project shall be evaluated for 50 marks for CIE and another 50 marks for SEE.

i) If any course contains two different branch subjects, the syllabus shall be written in two parts with 3 units each (Part-A and Part-B)

ii) If any subject is having both theory and practical components, they will be evaluated separately as theory subject and practical subject.

a) Continuous Internal Evaluation

i) For theory subjects, during the semester, there shall be three internal examinations at equal intervals. Each CIE examination shall be evaluated for 40 marks and 10 marks for assignment/quiz/presentation/case study etc. The three CIE examination marks are averaged and added to the marks obtained for Assignment/ quiz/presentation/case study etc.

Note:

- The assignment shall contain numerical problems, software development, theory, Design, Analysis, Simulations, Algorithms, and Drawing etc. Virtual Labs shall also be considered to develop curiosity and help students learn concepts through remote experimentation. It should be continuous assessment throughout the semester. There shall be at least four assignments in a semester and the average marks shall be considered.

ii) If the student is absent for any CIE examination, a chance may be given and CIE retest conducted

iii) After every CIE examination, identify poor performing students and give additional guidance to these students and conduct a test. Consider the best of two for the conducted test.

iv) First CIE shall be conducted for 33% of syllabus. The second CIE shall be conducted for next 33% of syllabus. Third CIE will be conducted for the remaining syllabus.

v) Final CIE marks are calculated by taking average of THREE CIE for 40 marks and the marks for Assignment/etc.

For Example:

Marks obtained in First CIE: 25

Marks obtained in second CIE: 20

Marks obtained in third CIE: 15

Marks obtained in Assignments etc: 08

Final CIE Marks: (25+20+15)/3+08 = 28

b) Semester End Examination:

i. The questions are set module wise

ii. There will be two full questions in each module and totally there will be 10 questions in FIVE modules.

iii. Each question may have a maximum of 4 sub-questions

iv. The question paper will be for 100 marks and after evaluation the marks are scaled down to 50

c) For practical courses, there shall be a continuous evaluation during the semester for 50 marks and end examination shall be for 50 marks. Day-to-day work in the laboratory shall be evaluated for 50 marks by the concerned laboratory teacher based on the regularity/record/viva/conduction of the practical (as per the rubrics). The end examination shall be conducted by the examiners appointed by chairman BoE. Generally one of the examiner will be the concerned laboratory teacher and another being subject expert from the same department/external examiner.

d) For the subject having design and/or drawing, such as Engineering Drawing, the distribution of marks shall be 50 for CIE and 50 for end examination.

e) The laboratory records, CIE test papers and SEE records shall be preserved in the respective department/ institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

f) Project work Evaluation: The evaluation of CIE of the project work shall be based on the progress of the student in the work assigned by the project supervisor periodically evaluated by him/her together with a Project Evaluation Committee (PEC) constituted for this purpose by the department. PEC comprises two faculties of the department/programme-wise and one faculty supervisor/Project guide (as assigned by the department for every student/student group).

g) Seminar presentation, project report (dissertation) and final oral examination conducted by a common Project Evaluation Committee at the College level shall form the SEE of the project work. The evaluation of SEE of the project work shall be jointly conducted by the Project Guide/Internal examiner and an External examiner.

9.1 Examinations:

For ensuring a high standards in both CIE and SEE and to declare the results of students' performance at both these levels in a time bound manner as per the Academic Calendar the College adopted the following for conducting examinations:

a) CIE: The CIE will be conducted exclusively by the course instructor. Course instructor will spell out components of CIE to the students in advance. To maintain transparency in its operation, declare the evaluation results in time and then return the answer scripts and assignment sheets to them as soon as possible (within one week from the date of last CIE)

b) SEE: The SEE will be conducted jointly by the course instructor and external examiner appointed for this purpose. The external examiner is mainly associated with the work of Question Paper setting.

c) SEE Answer Scripts: The answer scripts are normally evaluated by the course instructor only. However to ensure the quality and standard of evaluation and also of the grades awarded in all the cases, before declaring the results the external review of SEE is conducted.

d) External Review of SEE: An external review will be conducted under the aegis of Board of Examiners by appointing a panel of experts from outside the college for complete review of SEE operations. The steps followed may includes, external member is appointed in BoE of the respective programmes for the question paper review, the answer scripts are evaluated/moderated by external experts.

e) Passing Standards: The college follows standards of passing at CIE and SEE for each course, registered is as shown in the below table 9:

Table 9 Passing Standards

Evaluation Method	Passing Standard
Continuous Internal Evaluation	Score: ≥ 40%
Semester End Examination	Score: ≥ 40%

her in a main (Odd/Even) or a supplementary semester.

h) ***Successive Failures:*** If a student fails (Grade F) to pass a Course and earn the *credits* prescribed for the Course **even after four attempts, that course is deemed to be exempted for him/her. Then ,** the student may choose a course of his/ her choice with the same number of credits from the pool of courses stipulated by the concerned Board of Studies. The course so selected should not have been studied by the student or to be studied in higher semester/s. The faculty advisor shall guide/advise the student in this regard. The college will make arrangements for the registration, conduction of CIE for selected course.

This provision is given only for two courses (one at a time) during the entire maximum duration of a course. However this is optional and the student can prefer to repeat the same course in which he/she has failed repeatedly.

9.2 Ability Enhancement Courses/Skill oriented Courses

i) There shall be seven skill-oriented courses offered during I to VII semesters.

ii) The course shall carry 100 marks and shall be evaluated through continuous assessments during the semester for 50 marks and end examination shall be for 50 marks. However in I/II semester courses are evaluated based on CIE only. Day-to-day work in the class / laboratory shall be evaluated for 50 marks by the concerned teacher based on the regularity/assignments/viva/CIE test. The end examination shall be conducted by the concerned teacher and a senior expert in the subject from the same department.

iii) The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by industries, professional bodies and any other accredited

bodies. If a student chooses to take a Certificate Course offered by external agencies, the credits shall be awarded to the student only upon producing the course completion certificate along with percentage/grades from the agency. Minimum course duration if offered by external agencies shall be either 6 weeks or 30 Hrs.

iv) Student registration for the certificate courses offered by external agencies shall be only through the institution, it will be mandatory for the student to share necessary information with the institution. The institution shall also ensure that the student has to complete the course and produce the course completion certificate as per the academic schedule given for the regular courses in that semester.

v) If a student prefers to take a certificate course offered by external agency, the department shall mark attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the University.

10. CHOICE BASED CREDIT COURSES (CBCC):

There shall be three professional elective courses, three open elective courses, which are Choice Based Credit Courses (CBCC). Among them, professional elective course offered in VI semester shall be pursued through MOOCs. The student shall register for the course (Minimum of 12 weeks) offered by SWAYAM/ NPTEL through online with the approval of Head of the Department. The Head of the Department shall appoint one mentor to monitor the student's assignment submissions given by SWAYAM/NPTEL. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits assigned in the curriculum only by submission of the certificate.

11. CREDIT TRANSFER POLICY

a) As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, the Institute shall allow up to 40% of the total courses being offered in a particular Programme in a semester through the Online Learning courses through SWAYAM/MOOCs.

i) The Institute shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses through SWAYAM platform.

ii) The online learning courses available on the SWAYAM platform will be considered for credit transfer.

iii) Student registration for the MOOCs shall be only through the institution, it will be mandatory for the student to share necessary information with the institution.

iv) Credit transfer policy will be applicable to the Ability Enhancement Courses/Skill courses, Elective courses (Professional, Open & Humanities) offered by the Institution under Choice Based Credit System (CBCS).

v) The institution shall select the courses to be permitted for credit transfer through SWAYAM. However, while selecting courses in the online platform institution would essentially avoid the courses offered through the curriculum in the offline mode.

vi) The institution shall notify in June and November every year the list of the online learning courses eligible for credit transfer in the forthcoming Semester.

vii) The institution shall also ensure that the student has to complete the course and produce the course completion certificate as per the academic schedule given for the regular courses in that semester

viii) SWAYAM Course credit points are as specified in the platform

ix) The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.

x) The Institution shall ensure no overlap of SWAYAM MOOC exams with that of the Institution examination schedule.

xi) Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks/grades.

xii) Each department shall submit the following to the examination section of the Institution: List of students who have passed MOOC courses in the current semester along with the certificates of completion and Undertaking form filled by the students for credit transfer.

xiii) The Institution shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

b) Students shall also be permitted to take online courses through other MOOC platforms like Coursera, edX, Udemyetc. as per the guidelines specified in a). Only the courses with evaluation specified in percentage/grades shall be considered consisting of CIE and SEE components separately. If not specified in the online platform, then following credit points equivalence shall be considered:

Courses of 6 to 8 weeks duration: 2 credit points

Courses of 10 to 12 weeks duration: 3 credit points

Courses 14 to 16 weeks duration: 4 credit points

12. MANDATORY INTERNSHIPS

a) Summer Internships:

Two internships one after the end of first year for a duration of 3 weeks and another at the end of second year for a duration of 4 weeks are mandatory. It shall be completed in collaboration with local industries, Govt. Organizations, construction agencies, Hydel and thermal power projects, software MNCs or any industries in the areas of concerned specialization of the Undergraduate program. The internships may be society oriented and shall be completed in collaboration with government organizations/NGOs &

others. The student shall register for the internship as per course structure after commencement of academic year.

Evaluation of the internships shall be through the departmental committee. A student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee comprising of Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate from industry shall be included in the report. The report and the oral presentation shall carry 40% and 60% weightages, respectively. It shall be evaluated for 100 external marks. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the Institution.

b) Full Internship and Project work:

At the end of third year, the student should mandatorily register and undergo internship for 24 weeks and in parallel he/she should work on a project with well-defined objectives. The candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship.

The project report shall be evaluated with an external examiner. The total marks for project work 100 marks and distribution shall be 50 marks for internal and 50 marks for external evaluation. Minimum two evaluations by a three member committee at department level assesses the student for 50 marks based on Motivation, Technical Knowledge and Awareness related to the Project. At the end of the semester, it is to be evaluated by the departmental Project Review Committee consisting of supervisor, a senior faculty and HOD for 50 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the Institution and is evaluated for 50 marks.

The College shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

13. GUIDELINES FOR OFFERING A MINOR

The main objective of Minor in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. .E programme. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in minor specialization groups offered by a department other than their parent department. Minor in any other branch for improving knowledge and employability.

i) Minor is introduced in the curriculum of all B. E. programs offering a major degree and is applicable to all B. E (Regular and Lateral Entry) students admitted in Engineering.

ii) Minor programs shall be offered in emerging technologies by the respective departments or in collaboration with the relevant industries/agencies.

iii) A student shall earn additional 18 credits in the specified area to be eligible for the award of B.Tech. degree with Minor. This is in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e., 160 credits).

iv) A student is permitted to register for a Minor offered by a department other than the parent department and as specified in the respective Minor programme.

v) A student is permitted to register for Minor in V semester after the results of IV Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to their Minor from V Semester onwards.

vi) The courses offered under Minor can have theory as well as laboratory component. If a course comes with a lab component, that component is to be cleared separately

vii) The Concerned Principal of the college shall arrange separate class work and timetable of the courses offered under various **Minor** programs.

viii) Courses that are used to fulfill the student's primary major may not be double counted towards the Minor. Courses with content substantially equivalent, more than 20%, to courses in the student's primary major may not be counted towards the Minor.

ix) Students can complete the courses offered under Minor either in the college or in online platforms like SWAYAM/edX/Coursera etc as per the guidelines specified in credit transfer policy of the institution. If the courses under Minor are offered in conventional mode, then the teaching and evaluation procedure shall be similar to regular B. E courses

x) The attendance for the registered courses under Minor and regular courses offered for Major degree in a semester are to be considered separately.

xi) A student shall maintain an attendance of 85% in all registered courses of Minor to be eligible for attending semester end examinations. However, condonation for shortage of attendance between 65-85% may be given as per the University norms.

xii) A student detained due to lack of attendance in regular B. E program shall not be permitted to continue Minor

xiii) A student registered for Minor in a discipline shall pass in all subjects that constitute the requirement for the Minor degree programme**.** No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for **Minor** degree programme. There won't be any supplementary examination for the courses chosen for Minor.

xiv) If a student drops or is terminated from the Minor program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

xv) The **Minor in a** discipline will be mentioned in the degree certificate as Bachelor of Engineering in XXX with Minor in YYY. For example, Bachelor of Engineering in Mechanical Engineering with Minor in Machine Learning.

Enrolment into a Minor:

i) The enrolment of student into a Minor is based on the CGPA obtained in the major degree program.

ii) CGPA shall be taken up to IV semester in case of regular entry students and lateral entry students. Students having a CGPA of 7.5 without any backlog subjects will be permitted to register for a Minor.

iii) For applicability of Minor, specified SGPA/CGPA in the subsequent semesters is to be maintained without any backlogs otherwise registration for Minor shall be cancelled. In such case, student will receive B. E. degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

iv) If a student is detained due to lack of attendance in either Major or Minor program, registration shall be cancelled

v) Minimum strength required for offering a Minor offline in a discipline is considered as 20% of the class intake. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department

vi) Transfer of credits from a particular Minor to regular B. Tech. and vice-versa shall not be permitted

vii) Minor is to be completed simultaneously with Major degree program.

Registration for Minor:

i) The institution will announce specialization and courses offered by the departments under Minor and seek registrations in V Semester, after the results of IV Semester are announced.

ii) The eligible and interested students shall apply through the HOD of his/her parent department. The whole process should be completed prior to the commencement of every semester. Selected students shall be permitted to register the courses under Minor.

iii) The selected students shall submit their willingness to the principal through his/her parent department which shall be forwarded to the concerned departments offering Minor. Both parent department and department offering minor shall maintain the record of student pursuing the Minor.

iv) The students enrolled in the minor courses will be monitored continuously. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.

v) There is no fee for registration of subjects under Minor program offered in offline at the respective institutions.

14. GUIDELINES FOR OFFERING HONOURS

The objective of introducing B.E. (Hons.) is to facilitate the students to choose additionally the specialized courses of their choice and build their competence in a specialized area in the UG level. The programme is a best choice for academically excellent students having good academic record and interest towards higher studies and research.

i) Honours is introduced in the curriculum of all B. E. programs offering a major degree and is applicable to all B. E (Regular and Lateral Entry) students admitted in Engineering.

ii) A student shall earn additional 18 credits for award of B.E.(Honours) degree from same branch/ department/discipline registered for major degree. This is in addition to the credits essential for obtaining the Undergraduate degree in Major Discipline (i.e., 160 credits).

iii) A student is permitted to register for Honours offered by the parent department only

iv) A student is permitted to register for Honours in V semester after the results of IV Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to the Honours from V Semester onwards.

v) The Concerned Principal of the college shall arrange separate class work and timetable of the courses offered under Honours program.

vi) Courses that are used to fulfil the student's primary major may not be double counted towards the Honours. Courses with content substantially equivalent, more than 20%, to courses in the student's primary Major may not be counted towards the Honours.

vii) Students can complete the courses offered under Honours either in the college or in online platforms like SWAYAM/ edX / Coursera etc as per the guidelines specified in credit transfer policy of the university. If the courses under Honours are offered in conventional mode, then the teaching and evaluation procedure shall be similar to regular B. E courses

viii) The attendance for the registered courses under Honours and regular courses offered for Major degree in a semester are to be considered separately.

ix) A student shall maintain an attendance of 85% in all registered courses under Honours to be eligible for attending semester end examinations. However, condonation for shortage of attendance between 75-85% may be given as per the University norms.

x) A student detained due to lack of attendance in regular B. E program shall not be permitted to continue Honours

xvi) A student registered for Honours shall pass in all subjects that constitute the requirement for the Honours degree program**.** No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Honours degree programme. There won't be any supplementary examination for the courses chosen for Honours.

xi) If a student drops or is terminated from the Honours program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

xii) The Honours will be mentioned in the degree certificate as Bachelor of Engineering (Honours) in XXX. For example, B.E. (Honours) in Mechanical Engineering

Enrolment into Honours:

i) Students of a Department/Discipline are eligible to opt for Honours program offered by the same Department/Discipline

ii) The enrolment of student into Honours is based on the CGPA obtained in the major degree program. CGPA shall be taken up to IV semester in case of regular entry students and lateral entry students. Students having a CGPA of 8.5 without any backlog subjects will be permitted to register for Honours.

iii) For applicability of Honours, specified SGPA/CGPA in the subsequent semesters is to be maintained without any backlogs otherwise registration for Honours shall be cancelled. In such case, student will receive B. E degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them

iv) If a student is detained due to lack of attendance either in Major or in Honours, registration shall be cancelled

v) Minimum strength required for offering Honours offline is considered as 20% of the class intake. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department

vi) Transfer of credits from Honours to regular B. E degree and vice-versa shall not be permitted

vii) Honours is to be completed simultaneously with a Major degree program.

Registration for Honours:

i) The institution will announce courses offered by the departments under Honours before the start of the semester.

ii) The eligible and interested students shall apply through the HOD of his/her parent department. The whole process should be completed within one week before the start of every semester. Selected students shall be permitted to register the courses under Honours.

iii) The selected students shall submit their willingness to the Principal through his/her parent department offering Honours. The parent department shall maintain the record of student pursuing the Honours.

iv) The students enrolled in the Honours courses will be monitored continuously. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.

v) There is no fee for registration of subjects for Honours program offered in offline at the respective institutions.

15. GRADING:

15.1 General

a) In recent years, the grading system has replaced the evaluation of students' performance in a Course based on absolute marks, because of its many advantages. Therefore, College is following this practice.

b) **Letter Grades:** A letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, Outstanding (O), Excellent (A+), Very Good (A), Good (B+), Above Average (B), Average (C), Pass (P) and Fail (F), based on the raw score (marks, as in conventional practice) obtained by the student. This is usually arrived at after the student's performance in a Course, which includes both CIE and SEE, is assessed and raw score (marks) for the total are awarded to begin with, followed by grouping of all the students at a Course under different grading levels, as above.

NE: If a student fails to satisfy attendance and/or CIE requirement for course/s then such course/s shall be marked as not eligible (NE) i.e not eligible to appear for SEE in that course/s.

Absolute Grading: The College adopts the absolute grading system.

15.2 Grade Points

a) Depending on the letter grades assigned, a student earns certain grade points. As the grading system can have different scales for grade points (like 5, 8, 10.) with more number of points in the scale being desirable for providing higher resolution in the assessment. The College shall follow the 10-point grading system, as given in Table 10 for the absolute grading system.

Table 10: Grade Points Scales for Absolute Grading

Level	Out Standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fair
Grade	O	A+	A	B+	B	C	E	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

a) The grade points given in Table 10 helps in the evaluation of credit points earned by the student in a Course as the credit points are equal to the number of credits assigned to the Course multiplied by the grade points awarded to the student in that Course. This shall be used in arriving at the credit index of the student for that semester, as it is the sum total of all the credit points earned by the student for all the Courses registered in that semester.

b) **Earning of Credits:** A student shall be considered to have completed a Course successfully and earned credits if he/she secures an acceptable letter grade in the range O to P. Letter grade F in any Course implies failure of the student in that Course and no credit shall be earned.

c) **Transitional Grades:** The transitional grades, such as, 'I', 'W' and 'X' shall be awarded to a student in the following cases (refer 15.2). These grades need to be converted into one or the other of the letter grades (O-F) after the student completes his/her Course requirements, including the examinations.

15.2 Description of few Grades

P Grade: 'P' grade stands for poor performance; i.e. it is the minimum passing grade in any course.

F Grades: 'F' grade denotes fail in a course. A student has to reappear for the courses as backlog paper in which he/she obtains 'F' grade, until a pass grade ('P' and above) is obtained. For the other (elective) courses in which F grade has been obtained, while repeating the student may take the same course or any other course from the same category.

PP and NP Grades: 'PP' (for passed) and 'NP' (for not passed) grades are awarded to candidates for the mandatory courses which are of a non-credit (NC) type. The results of all the mandatory courses are reflected in the grade card. For audit courses the non-credit pass grade PP is awarded if a student's attendance is above 75% in the class and he/she satisfies the criterion specified by the concerned course teacher. However, if these requirements are not fulfilled, the non-credit fail grade (NP) is awarded.

'X' Grade: Awarded to a student having attendance >= 85 % and CIE marks (>=90%) in a Course, but SEE performance observed to be poor, which could result in an overall F Grade in the Course (No F grade awarded in this case but student's performance record maintained separately).

'I' Grade: Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:

- Illness or accident, which disabled him/her from attending SEE;
- A calamity in the family at the time of SEE, which required the Student to be away from the College.
- Any other Verifiable exigency.

'W' Grade: Awarded to a student having satisfactory attendance at classes, but withdrawing from that Course before the prescribed date in a semester under faculty advice;

'N' Grade: 'N' grade is awarded for incomplete work in Industrial Training, Mini Project, Major Project - Phase 1 and Phase 2 and NSS activities, against an application submitted by the student. However, on completion of such a work, 'N' grade can be converted to a regular grade within the first week of the next semester. Otherwise, the student will be awarded 'N' grade on a permanent basis and it will appear in his/her grade card. Further, the student will be required to register for the same in the next semester.

'NE' Grade: Awarded to a student for which the student does not possess satisfactory attendance and CIE score, shall be marked as NE.

15.3 Make Up examination:

The Make Up Examination facility shall be available to students who may have missed to attend the SEE of one or more Courses in a semester for valid reasons and given the 'I' grade. Students having the 'X' grade shall also be eligible to take advantage of this facility. The Make Up Examination shall be held as per dates notified in the Academic Calendar. The standard of the Make Up Examination shall be the same as that of regular SEE for the Courses.

15.4 Grade Card

Each student shall be issued a *Grade Card* (or transcript) at the end of each semester. While this will have a list of all the Courses registered by a student in the semester together with their *credits,* the *letter grades* with *grade points awarded* in each case and those with *grades 'I', 'W' and 'X'*, only those Courses registered for

credit and having *grade points* shall be included in the computation of the student's performance, like *SGPA* and *CGPA*. And, the Courses taken for *audit* will not form part of this computation. The results of *mandatory courses*, which are of the *non-credit* type, shall also be reflected in the *Grade Card as PP (for Passed) or NP (for Not Passed)*. It may be noted that each UG student shall have to obtain the *grade* PP in each *mandatory course* to qualify for the Degree award by the University.

15.5 GRADE POINT AVERAGES

i. Depending on the grade assigned, a student earns certain grade points as given in Table. 10. The grade points are used in the calculation of credit points earned by the students in a subject. The credit points earned in a subject/course are equal to the number of credits assigned to the subject/ course multiplied by the grade points awarded to the student in that subject/ course. This is further used to calculate the two important Grade point Averages (SGPA and CGPA) of each student for a given semester that are used as criteria for the declaration of academic performance of a student for promotion to higher classes as well as award of degree.

ii. If a candidate has withdrawn a course in the first attempt during a semester, the SGPA is computed for the first attempt assigning a 'F' grade (Grade points 00) to the withdrawn courses.

iii. Semester Grade Point Average (SGPA): SGPA is an indication of the performance of the student in the current semester. SGPA for a student for any given semester is equal to the total credit points earned by the students in the given semester divided by the total number of credits registered in that semester (refer the formula).

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

iv. **Cumulative Grade Point Average (CGPA):** CGPA is an indication of the cumulative performance of the student from first semester upto the current semester. CGPA for a student at the end of a given semester is calculated by the ratio of sum of total credit points of all the semesters divided by the total number of credits earned in all the semesters.

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

v. ***Illustrative Example:*** An illustrative example given in Table 11 indicates the use of the two equations in calculating SGPA *and CGPA,* Both of them shall be normally calculated up to the second decimal position, so that the *CGPA,* in particular, can be made use of in rank ordering the students' performance in a College. If two students get the same *CGPA*, the tie may be resolved by considering the number of times a student has obtained higher *SGPA.* But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A+, A, maybe taken into account in rank ordering of the students in the class.

Table 11a: An Example 1

Semester (Odd: I, Even: II)	Course No	Credits	Grade	Grade Points	Credits Points	SGPA/CGPA
I	XX101	5:0:0	A	8	40	
I	XX102	3:2:0	W	-	--	
I	XX103	3:0:0	A+	9	27	SGPA = 117/20 =5.85
I	XX104	0:1:1	F	0	00	
I	XX105	4:1:0	B	6	30	
I	XX106	5:0:0	P	4	20	
TOTAL		20(18*)	Total		117	
II	XX107	3:1:1	B+	7	35	
II	XX108	4:0:0	A	8	32	SGPA = 157/25 =6.28
II	XX109	3:0:0	B	6	18	CGPA = 274/41 =6.68
II	XX110	4:1:0	P	4	20	
II	XX111	2:1:1	A+	9	36	
II	XX112	2:0:0	F	0	00	
Total		25 (23*)	Total		157	
Supplementary	**XX102**	**3:2:0**	**B**	**6**	**30**	SGPA = 56/9 = 6.22
Supplementary	XX104	0:1:1	B+	7	14	CGPA = 330/50 =6.60
Supplementary	XX112	2:0:0	D	6	12	
Total		9	Total		56	
* Total Number of credits excluding with 'F' & 'W' grades; this is particularly important to keep track of the number of credits earned by a student up to any semester;						

16 ATTENDANCE REQUIREMENT

All students must attend every lecture, tutorial and practical classes. To account for late registration, sickness or other such contingencies, the attendance requirement will be a minimum of 85 % of the classes actually held.

a) Each semester is considered as a unit for attendance requirements and the candidate has to put in a minimum of 85 % attendance in each subject. However, a candidate who has secured attendance between 75% to 84% in the current semester due to medical reasons or due to participation in College/University/State/National/International level sports events or Technological exhibitions or seminars with prior permission from the Principal shall be given exemption from the prescribed attendance requirements and he / she shall be permitted to appear for the current semester examination.

b) The basis of calculation of the attendance shall be the period prescribed by the college in the calendar of events. For the first semester students, the same is reckoned from the date of admission to the course as per the CET allotment.

c) Attendance record will be maintained based upon roll calls (or any equivalent operation) in every scheduled lecture, tutorial and practical class. For the purpose of attendance calculation, every scheduled practical class will count as one unit irrespective of the number of contact hours.

d) The students and/or parents shall be informed about their attendance position periodically by the college so that they can make up the shortage, if any. The heads of the departments will submit the list of students who have fallen short of attendance at the end of each semester to the Principal/CoE for further action in this regard.

e) A candidate having shortage of attendance in one or more subjects shall have to repeat the subject(s) by taking re-registration to the same, during the relevant semester of a subsequent academic year.

f) A student must inform the concerned head of the department / Dean, immediately of any instances of continuous absence from classes. A student who is absent due to illness or any other emergency, up to a maximum of two weeks, should approach the concerned faculty through Head of the department, for make-up CIE components and laboratory work. Similarly, a student who is absent for a test due to illness shall approach the concerned faculty through Head of the department for a make-up test immediately after returning to the class. The request should be supported with a medical certificate from a medical officer.

g) If a student is continuously absent for more than four weeks duration without notifying the Head / Dean, he/she will not be permitted to take the examinations in that semester.

17 ELIGIBILITY REQUIREMENTS FOR PROMOTION TO NEXT ACADEMIC YEAR (VERTICAL PROGRESSION)

On obtaining a pass grade, the student accumulates the course credits as 'Earned Credits'. A student's performance is measured by the number of credits that he/ she have earned and also by the weighted grade point average basis.

There shall not be any restrictions for promotion from ODD semester to EVEN semester, provided the candidate has fulfilled the attendance requirements. However, a candidate is eligible for promotion from an EVEN semester to ODD semester, shall be as per VTU Regulations and notifications for respective programmes notified from time to time

18 MAXIMUM DURATION FOR COURSE COMPLETION

For the B.E program, the candidate shall complete the course with in a maximum period of eight academic years (six academic years for lateral entry) from the date of first admission, failing which he / she has to discontinue the course. For the B.Arch program, the candidate shall complete the course with in a maximum

period of 10 academic years from the date of first admission, failing which he / she has to discontinue the course. For the M. Tech. course the maximum duration for the completion is four years.

19 DEGREE REQUIREMENTS AND PROVISIONS

19.1 Award of Degree

A candidate shall be declared to have qualified for the award of B.E. degree provided he/she has successfully completed the following requirements:

a) he/she has passed all the prescribed courses of study through a scheme of eight semesters and earned 160 credits (for lateral entry, six semester and earned 120 credits) within a maximum period of eight years (six years for lateral entry) reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

b) At the end of eighth semester he/she has secured a CGPA of 5.0 or above.

A candidate shall be declared to have qualified for the award of M.Tech degree provided he/she has successfully completed the following requirements:

a) he/she has passed all the prescribed courses of study through a scheme of four semesters and earned 88 credits, with in a maximum period of four years reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

b) At the end of fourth semester he/she has secured a CGPA of 5.0 or above.

A candidate shall be declared to have qualified for the award of B.Arch degree provided he/she has successfully completed the flowing requirements:

a) he/she has passed all the prescribed courses of study through a scheme of ten semesters and earned credits as per CoA within a maximum period of ten years reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

b) At the end of tenth semester he/she has secured a CGPA of 5.0 or above (as per CoA).

Award of B.E. degree with Honours/Minor

A student will be declared eligible for the award of the B.Tech. with Honours/Minor if he/she fulfils the following:

i) Student secures additional 18 credits fulfilling all the requisites of a B.E. program i.e., 160 credits

ii) A student is permitted to register either for Honours or a Minor but not for both. Registering for Honours/Minor is optional.

iii) Honours/Minor is to be completed simultaneously along with B.E. programme.

Students, who fail to fulfill all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit their seat in B.E. course and their admission stands cancelled. This clause shall be read along with the clause 1(a) (i).

18.2 Award of Class

18.2.1 Class Designation: Class designation shall be as per the VTU Regulations and notifications for respective programmes notified from time to time.

18.2.2 Conversion of CGPA into percentage of Marks and Class Equivalence: There is no formula for the conversion of CGPA into percentage of Marks. However, sometimes, it is necessary to provide equivalence CGPA with the percentage of marks for employment/higher studies etc. The following formula may be referred for the conversion of CGPA on 10-point scale into the percentage marks:

Percentage = CGPA X 10

Class Equivalence: Subsequent to the conversion of final CGPA, after successful completion of the Program, into the percentage marks (M), a graduating student is reckoned to have passed in First Class with Distinction (FCD) if M e" 70, First Class (FC) if 60 d" M < 70, Second Class (SC) if 50 d" M < 60 and Pass Class if 40 d" M d" 50 .

19.3 Medals and Cash Prizes

Medals and Cash awards are given to the best students / toppers in every branch. For the award of prizes and medals the conditions stipulated by the Donor are considered in addition to the statutes formed by the college /VTU.

20 TRANSFER OF STUDENTS

20.1 Between Colleges

Transfer of students from one autonomous college to another autonomous college within the state of Karnataka is permitted only at the beginning of the Third, Fifth and Seventh semester subject to availability of seats with in the permissible student intake in respective branches of the college after obtaining the NOCs from both the concerned colleges and subject to approval of the VTU, Belgavi and DTE, Benguluru.

20.2 Regulations for change of branch within the college

Transfer of students from one branch to another within the college is permitted in 3rd semester only. The following regulations govern the change of branch within the college.

- Change of the branch will be permitted strictly in the order of merit as determined by their CGPA at the end of first year and only to those students who have earned all the credits prescribed for First and Second semesters.

- The actual strength in the third semester in the branch to which the transfer is to be made, should not exceed the sanctioned intake, and the strength of the branch from which the transfer is sought shall not fall below 75% of sanctioned intake of that branch.

21 REGISTRATION

A student shall register for courses (core or elective) to earn credits for meeting the requirements of a Degree programme. Such courses together with their grades and the credits earned will be included in the Grade Card issued by the College at the end of each semester, like odd, even, supplementary / summer and it forms the basis for determining the student's academic performance in that semester.

Registration is a very important procedural part of the academic system of an autonomous college. The registration procedure ensures that student's name is on the roll list of each course that he/she wants to study. No credit is given if the student attends a course for which he/she has not registered. Registration for courses to be taken in a particular semester will be done according to a specified schedule in the beginning of the semester.

There will be no registration for I and II semester regular students. From III semester onwards each student has to register for subjects for each semester.Further for the failed subjects of I and II semester also registration of subject is necessary.

However for the supplementary / summer semester a student can register for a maximum of 16 credits. In summer semester a student can register both odd and even semester subjects.

21.1. Faculty Advisor

Each student is assigned to a Faculty Advisor who will advise the students to register for the required number of credits in the current semester and monitor his / her CIE performance regularly. Based on the CIE performance the Faculty Advisor advises the students to drop certain courses or withdraw on or before the prescribed date. The performance of a student in the previous semester would form the basis for a Faculty Advisor on the number of credits to be registered in the current semester.

21.2 Registration for courses.

As per the advice of the faculty adviser each student is required to complete the registration form indicating the choice of courses. The student must also take steps to pay his/her dues in time as specified from time to time. The registration of the students who do not make payments by a stipulated date will be cancelled for that particular semester.

In absentia registration or registration after the specified date will be allowed only in rare cases at the discretion of Head of the department. In case of illness or absence during registration, the student should get written permission for the same from Head of the department. A student must meet the Head of the department within the first week of the new semester for confirmation of his/her registration.

21.3. Late Registration

Late registration is permitted under the following conditions: For reasons beyond his/her control, if a student is not able to register or send an authorized representative with a medical certificate, he/she may apply to the Dean for late registration through the Head of the department with appropriate recommendations. Dean and Head of the concerned department will consider and may approve late registration in genuine cases on payment of an penal fee / fine as decided from time to time. Late registration is permitted until one week after the start of the semester.

22 DISCIPLINARY ACTIONS AND RELATED MATTERS

22.1. 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.

22.2 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.

22.3 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.**

SALABURAGI
ESTD 1998