



ಹೈದರಾಬಾದ ಕರ್ನಾಟಕ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಯ  
ಪೂಜ್ಯ ದೊಡ್ಡಪ್ಪ ಅಪ್ಪ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ  
ಕಲಬುರಗಿ

Hyderabad Karnataka Education Society's  
**POOJYA DODDAPPA APPA  
COLLEGE OF ENGINEERING  
KALABURAGI**

A Govt. Aided, Autonomous Institution, Approved by AICTE New Delhi  
and Affiliated to Visvesvaraya Technological University, Belagavi

**ನಿಯಮಗಳು ಮತ್ತು ನಿಬಂಧನೆಗಳು  
RULES AND REGULATIONS  
2016 - 17**

For  
**B.E., B.Arch. and M.Tech.  
Degree Programmes**

Copy Right and

Published by: **THE PRINCIPAL**

**Poojya Doddappa Appa**

**College of Engineering**

KALABURAGI - 585 102 - Karnataka

Copies : 1000

Year : 2016

Printed by :

**KALYAN PRINTERS**

KALABURAGI

E-mail : sangamprintglb@gmail.com

# **ACADEMIC RULES AND REGULATIONS**

APPLICABLE FOR ALL AUTONOMOUS PROGRAMMES

AMENDED IN JUNE 2016

## **1. SHORT TITLE AND COMMENCEMENT**

- 1.1 The regulations listed under this head are common for B.E., B.Arch. and M.Tech. Programmes offered.
- 1.2 The regulations are subject to amendments as may be made by the Academic Council of the college from time to time, keeping the recommendations of the Board of Studies in view. Any or all such amendments will be effective from such date and to such batches of candidates including those already undergoing the programmes, as may be decided by the Academic Council.

## **2. DEFINITIONS**

- (a) "University" means Visvesvaraya Technological University (VTU), Belagavi
- (b) "College" means PDA College of Engineering (PDACE)
- (c) "Commission" means University Grant Commission (UGC)
- (d) "Council " means All India Council for Technological Education (AICTE)
- (e) "CoA" means Council of Architecture
- (f) "DTE" means Director of Technical Education
- (g) "CET" means Common Entrance Test conducted by Karnataka Examination Authority.
- (h) "Statute" means VTU Autonomous College Statue, 2006
- (i) "Academic Autonomy" means freedom granted by the University to the College in all aspects of conducting its academic programmes for promoting academic excellence.
- (j) "Autonomous College" means a college notified as an autonomous college as per the VTU Autonomous College Statute, 2006

- (k) "Regular Students" means students who are admitted to B.E. or B. Arch. Programmes after PUC (10+2) or equivalent. And, M.Tech. programmes after B.E. or equivalent.
- (l) "Lateral Entry" means students who are admitted to the B.E. third semester engineering (Second Year) programme after completing Diploma Course in the respective discipline.
- (m) "Branch" means specialization in a programme like B.E. degree programme in Civil Engineering or B.E. degree programme in Computer Science and Engineering or B. Arch. degree programme in Architecture etc.
- (n) "Course" means a subject either theory or practical identified by its title and code number. For example, Engineering Mathematics – I is a course offered in the first semester and its code is 15MA11.
- (o) "TEQIP" means Technical Education Quality Improvement Program
- (p) "Government" means Government of Karnataka.

### **3. PREAMBLE**

Poojya Doddappa Appa College of Engineering, Kalaburagi affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE New Delhi and funded under TEQIP (Phase I & II), is one of the oldest and reputed Institutes in the state of Karnataka. The college established in the year 1958, and it is the first Engineering College in the Hyderabad Karnataka region. Recognizing the excellent facilities, faculty progressive outlook, high academic standards and record performance, the Government and University, 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, but also formulating the curriculum that meets the global requirements.

**Vision :**

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:**

- ◆ To create an engineering workforce with an enduring commitment towards technical, ethical and ecological values.
- ◆ To promote scientific and technical temperament in the institute.
- ◆ To inculcate innovative teaching-learning process to meet the academic, industrial and entrepreneurial needs.
- ◆ To engage in collaborative work with industries and premier institutions resulting in technology exchange, research, consultancy and community service.
- ◆ To enrich the relationship with alumni for overall development of the institute.

#### **4. ACADEMIC PROGRAMMES**

##### **Under Graduate (UG) Programme**

The UG programme in engineering shall be called as degree programme in Bachelor of Engineering abbreviated as B.E. The programme 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 Council and Commission. Typical examples are B.E.(Civil Engineering) and B.E.(Mechanical Engineering).

The UG programme in Architecture shall be called as degree programme in Bachelor of Architecture abbreviated as B.Arch. The programme will extend over a period of five years duration which will be divided into ten semesters.

## Branches of Study

The Table 1A shows the B.E. / B.Arch degree programmes offered by the College.

**Table 1A. Branches under B.E./B.Arch Programmes**

Sl.No.	Titel of the UG Programme	Abbreviation
1.	Civil Engineering	CV
2.	Mechanical Engineering	ME
3.	Electrical & Electronics Engineering	EE
4.	Electronics & Communication Engineering	EC
5.	Industrial & Production Engineering	IP
6.	Electronics & Instrumentation Engineering	E&IE
7.	Architecture	AT
8.	Ceramic & Cement Engineering	CC
9.	Computer Science & Engineering	CS
10.	Automobile Engineering	AU
11.	Information Science & Engineering	IS

## Post Graduate (PG) Programme

The PG programme in engineering shall be called as degree programme in Master of Technology abbreviated as M.Tech. The programme will extend over a period of two years duration, which will be divided into four semesters.

The specialization of a PG programme will be indicated in brackets after the abbreviations as required by the Council and Commission. Typical examples are M.Tech (Power Electronics) and M.Tech (Production Engineering).

The Table 1B shows the M.Tech degree programmes offered by the College.

**Table 1B. Specializations under M.Tech Programmes**

Sl. No.	Departments	M.Tech programmes
01	Civil Engineering	Structural Engineering
		Environmental Engineering
02	Mechanical Engineering	Thermal Power Engineering
		Production Engineering
03	Electronics and communication Enginerring	Communication Systems
04	Electrical & Electronics Engg.	Power Electronics
05	Computer Science and Engineering	Computer Science & Engg.
		Computer Network & Engg.
06	Electronics and Instrumentation Engineering	Biomedical Electronics and Industrial Instrumentation
07	Ceramic and Cement Technology	Material Science and Technology

## 5. ELIGIBILITY FOR ADMISSION

### B.E. Programme :

Admission to I year, (I & II semester) B.E. degree, shall be open to the candidates who have passed the second year Pre- University in Science (PUC Science) or XII standard or equivalent examination recognized by the Government and the University. 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 the Government and the University. Candidates are required to satisfy the conditions of admission thereto prescribed by the Government and the University.

## **B.Arch. Programme :**

Admission to the first year B.Arch course shall be open to the students who have passed the two year Pre - University in Science (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 equivalent examination recognized by the Government and the University, provided they meet the minimum standards laid down by the 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 programme. However, there shall not be any exemption of any subject at the B.Arch degree programme.

All the candidates seeking admission to B.Arch. shall pass NATA exam (National Aptitude Test in Architecture) conducted by the CoA at the department of Architecture or any other NATA test center in India with minimum passing of 40%. These norms shall be subject to change as per the notification of CoA.

## **M.Tech. Programme :**

Candidates for admission to the first semester of M.Tech degree programme shall be open to those who have passed an appropriate B.E. degree examination of the University or any other examination of any recognized authority accepted by the University as equivalent thereto. Candidates are required to satisfy the conditions of admission thereto prescribed by the Government and the University.

## **6. STRUCTURE OF THE ACADEMIC YEAR**

### **6.1 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 semester and those of even semesters, in even semester. On the other hand, during supplementary semester both odd and even semester courses will be offered.



## 6.2 Main Semester

Duration	:	20 weeks	
Activities (In, Weeks)	:	Registration of courses	: 0.5
		Course work	: 15
		Examination Preparation	: 0.5
		Examinations	: 3.5
		Declaration of Results	: 0.5

## 6.3 Supplementary Semester

Duration	:	09 weeks	
Activities (In weeks)	:	Registration of courses	: 0.1
		Course work	: 6.0
		Examination Preparation	: 0.2
		Examinations	: 2.2
		Declaration of Results	: 0.5

**6.4 Semester Recess** : After each main semester : 1.5 week

## 6.5 Supplementary Semester

Supplementary semester is of nine weeks duration, offered at the end of even semester. In the supplementary semester, registration for 'L' (lecture) and 'P' (practical) category courses will be strictly limited to the students who have obtained F grade in any subject(s) earlier and for those who have withdrawn the subjects. The student who detained due to the shortage of attendance (Refer 10.5) and dropped the course are not eligible to register in supplementary semester. A list of subjects offered in the supplementary semester is announced at the beginning of the supplementary 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 supplementary semester late registration, adding, dropping and withdrawing of subjects are not allowed under any circumstances.

## 6.6 Academic Calendar

Academic calendar containing details such as dates for registration, dropping of courses, withdrawing of courses, Schedule of Examination, Announcement of Results, Industrial Visits, Nirvana - College Fest, Graduation Day, Internal assessment test schedule etc., are specified at the beginning of the academic year.

## 7. CREDIT SYSTEM

### 7.1 Curriculum Credit System :

The College follows a credit system, for curriculum planning in which each course, except a project work and seminar, 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.

### 7.2 Hours per Week and Credits :

The Table 2 represent the relationship between contact hours per week for a course work and the unit of credit will determine the number of credits assigned to the course.

**Table 2: Typical Credit Structure for Course Work**

Lectures (hrs/wk/Sem)	Tutorials/ Lab. (hrs/wk/Sem)	Students Work (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
3	2	-	3:1:0	4
4	0	0	4:0:0	4
4	2	0	4:1:0	5
5	0	0	5:0:0	5

Lectures (Lec) : One Lecture hour per week One credit.

Tutorials(Tut) : Two Tutorial hours per week One credit.

Practical (Lab) : Two Practical hours per week One credit.

Studio : One & half Studio hour per week One credit.

(Studio is only for Architecture students)

The hours/week would be multiplied by 2 in case of supplementary semester.

## **8. CURRICULUM**

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

For the award of B.E. degree, a candidate has to earn **exactly 200** credits. Lateral entry candidate has to earn **exactly 150** credits.

For the award of B.Arch degree, a candidate has to earn **exactly 250** credits. For the award of M.Tech. degree, a candidate has to earn **exactly 100** credits.

**8.2** On an average the courses of study for each year will be of 50 credits.

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

- ◆ Basic sciences (Mathematics, Physics, Chemistry)
- ◆ Engineering sciences
- ◆ Humanities and social sciences, including the management subjects
- ◆ Professional core subjects relevant to the branch
- ◆ Elective subjects
- ◆ Project work, seminar, industrial internship and practical training from industries (optional)
- ◆ Institutional core courses like Communication skills, Constitution of India, Environmental studies, Intellectual Property Rights etc.
- ◆ Audit / non-credit courses

**8.2.2** The curriculum of B.Arch. degree includes the following categories.

Basic and 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 and 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 X semester for 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

### **8.3 Audit / Non-Credit Courses**

Some non-credit courses are mandatory and every candidate should register and get a PP grade as an essential requirement for obtaining a degree.

In addition, a student can register some of the courses as audit courses to supplement the knowledge and for such courses the student should satisfy the requirements stipulated by the course teacher.

### **8.4 Electives**

Candidates are required to opt for electives from the list of electives relating to their branch 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 the 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 one week 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 programme, 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 7<sup>th</sup> and 8<sup>th</sup> 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 B.Arch programme, for the Architectural design thesis project, each candidate of 10<sup>th</sup> semester shall submit at least three synopses, one of which will be selected by committee comprising thesis coordinator, head of the department and 1-2 senior faculty members. The candidate shall undergo at least 3 to 4 juries involving practicing architects.

For the M.Tech programme, every candidate shall submit report on project phase-I at third semester level and project phase-II at fourth semester level, on the date announced by the college / department. 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 Chairman, Board of Examiners / head of the department in consultation with PG coordinators. It is mandatory to publish a paper, on the project, in the International / National journals. Viva-voce examination will be conducted only, if the candidate has completed all the prescribed courses at first, second and third semester.

Project phase-I is a pre-requisite for project phase-II, hence, the students will not be permitted to register for project phase-II until he/she completes project phase-I successfully.

## **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 Practical Training / Industrial tour / Mini Project**

**8.7.1** Each candidate must complete the prescribed number of days of practical training to the satisfaction of the concerned department. This training will be arranged in the summer vacation following the 6<sup>th</sup> semester. Training should be carried out preferably in industry or Research & Development institutions. One faculty will act as coordinator for practical training. Training in academic institutions is discouraged.

**8.7.2** It is the joint responsibility of the individual departments and the Training and Placement Office (TPO) to arrange practical training for students. TPO will prepare programme-wise list of potential training organizations in consultation with the respective departments. These organizations will be approached by the TPO with a request to provide necessary training to the aspiring students. Consolidated list of training offers will be made available to the students through the departments. If a student is interested in making his/her own arrangement for the training, he/she will need to get the training organization approved and route the application through the department head/training incharge to TPO.

**8.7.3** The department will appoint a training supervisor for each student. The supervisor is expected to keep contact with the assigned students through e-mail and /or telephone. The students will be required to get their training plan reviewed by their supervisor within the first week and report their progress on weekly basis. Supervisor, if desires, may visit the organization. Such visits by the supervisors will be supported by the institute.

- 8.7.4** The department head will scrutinize the training report and the training certificate and will award a minimum passing grade, if the training is satisfactory. In case the training is considered to be unsatisfactory, a 'N' grade will be awarded and the student may have to undergo fresh practical training for a part or full duration.
- 8.7.5** As an alternative to practical training (clause 8.7.1 to 8.7.4), the department may organize industrial tour or assign a mini project.
- 8.7.6** For the B.Arch. course, a candidate shall undergo professional training in the X semester under the supervision of practicing professional, registered with the CoA, for a period of 16 weeks. He / she shall submit the log book, training report and certificate to the effect that he /she has undergone professional training to the head of the department of Architecture/Principal. During practical training he shall submit all the documents required for the fulfillment of the course. The candidate shall face a viva - voce examination for professional training. If a candidate fails in the viva - voce examination, he/she shall be awarded "N" grade and shall repeat the training afresh in any succeeding semester and pass the viva-voce.

## **8.8 Vacation assignment /Study Tour for B.Arch Course**

Vacation assignment/study tour shall be as per CoA and scheme of teaching requirements.

## **8.9 NSS**

All the candidates admitted to B.E /B.Arch programmes are encouraged to enroll for NSS in the first year.

## **9. Assessment**

The assessment will comprise two major components namely, Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).

### **9.1 Continuous Internal Evaluation (CIE)**

- 9.1.1** CIE will be conducted exclusively by the subject teacher throughout the semester. Marks in CIE are awarded to a student in a

theory course for which he/she is registered, based on his/ her performance in various components such as three major tests (best of two), class/slip tests, tutorials, group discussions, seminars, mini projects, drawing assignments and home assignments, as applicable. The subject teacher will spell out in advance the components of CIE and also the distribution of weightage for each component. The teacher will declare the evaluation result in time and show the answer scripts and get the signature of the student on answer book after the evaluation is completed.

The suggested components for CIE for a theory course are as shown in Table 3:

**Table 3. Suggested Components for CIE for a Theory Course**

S.No.	COMPONENTS	MARKS
01	Major test-I*	20
02	Major Test-II*	20
03	Major Test-III*	20
04	Seminar / Slip Tests / Quizes	10

\* **Best two performances of the major tests will be considered for 40 marks.**

For all design and drawing oriented subjects such as Arch. design, BCM, graphics, W/D etc the components may vary and more weightage may be given to assignments.

There will be one compensatory major test for those who have missed any major test on valid grounds during the regular semester. A request letter has to be submitted to the Principal / Dean Academic within 7 days from the respective major test date.

The students may be allowed to take an additional major test to improve his/her CIE performance with prior permission from the respective head of the department.

Students who have been permitted by the Principal to participate



in university sports and cultural fests and missed the major tests, class or slip tests are permitted to take alternate tests.

The students are informed continuously regarding their performance and progress in CIE

**9.1.2** For laboratory courses, the teacher will evolve a method of evaluation for CIE and announce it in the first practical class The suggested components for CIE for a laboratory is as shown in Table4.

**Table.4. Suggested Components for CIE for a Laboratory course**

S.No.	COMPONENTS	MARKS
01	Attending and Conducting the experiments	25
02	Evaluation of Lab Report	15
03	Mock examination or Oral conducted by the concerned teacher at the end of semester	10

## **9.2 Semester End Examination (SEE)**

**9.2.1** For theory examination their shall be written examination as per the scheme of examination. For practical or laboratory courses their shall be conduction of experiments and viva-voce. In case of design and drawing examination their shall be viva-voce(oral and sketching).

**9.2.2** Question paper pattern: The question paper pattern shall consists of five modules, in each module their shall be two questions set by intermixing syllabus of respective module. The students have to answer five questions choosing one question from each module. Some subjects which include design and drawing and mandatory courses will have their own pattern.

## **10. Grading**

**10.1** The college is adopting absolute grading method in which the marks scored by all the students who satisfy the attendance requirement (Ref. 12) and passing standards (Ref. 11.1) in a particular subject, are directly used for assigning grades in that subject.

**10.2** A letter grade on scale of 10 is awarded to students in each subject based on marks secured by them in the subject. The letter (an alphabet) grade is basically a qualitative measure giving the performance of a student such as outstanding(S), excellent(A), Verygood (B) and so on as listed in Table 5.

**Table 5. Grades, their points and performance levels**

Grade	Points	Description of Level of Performance
S	10	Outstanding
A	09	Excellent
B	08	Very Good
C	07	Good
D	05	Average
E	04	Poor
F	00	Fail

**10.3** Range of marks for various grades have been identified by strengthening the existing University rules. The Table 6 describe the ranges of marks for assigning grades.

**Table 6. Ranges of marks for grading UG courses**

Range of Marks (sum of CIE & SEE)	Grade	Grade Point
≥ 90	S	10
75-89	A	09
60-74	B	08
50-59	C	07
46-49	D	05
40-45	E	04
< 40	F	00

## 10.4 Description of Grades

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

**10.4.2 F Grade :** 'F' grade denotes fail in a course. 'F' grade is also awarded to the students meeting prescribed requirement but not meeting minimum prescribed CIE marks. A student has to repeat the courses in which he/she obtains 'F' grade, until a pass grade ('E' and above) is obtained.

**10.4.3 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.

**10.4.4 X Grade:** A student having attendance  $\geq 85\%$  and CIE rating ( $\geq 60\%$ ) in a course, but SEE performance observed to be poor, which could result in an overall 'F' grade in the course, for such courses 'X' grade shall be awarded. The student will be provided an opportunity in the make-up examination, however the grades ('B' to 'S') will be reduced to the next lower grade and grade 'C', 'D' and 'E' remain unchanged.

**10.4.5 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:

- (i) Illness or accident, which disabled him/her from attending SEE;
- (ii) A calamity in the family at the time of SEE, which required the Student to be away from the College.

(iii) In the event of (i) and (ii) above it is the responsibility of the student/parent/guardian to inform the College authorities (Faculty advisor head of the department / CoE) immediately. The information may in the form of either written communication, personal communication by parent/guardian/peer or an email or mobile message. The candidate needs to submit all the relevant evidences(hospital reports, police reports, certificate from competent authorities etc.,) prior to attending the College. Intimation is mandatory. Any intimation after conduct of examination will not be entertained.

**10.4.6 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. The student shall re-register for the said course in respective regular / supplementary semester until a pass grade (E and above) is obtained. However the student shall maintain minimum credits of 20 after the withdrawal of subject. Also the maximum number of withdrawals at any given time shall not exceed two courses subjected to maintaining the minimum registration requirements.

**10.4.7 N-Grade :** 'N' grade is awarded for incomplete work in Industrial Training, Mini Project, Major Project - Phase- I and Phase-II 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.

## **11. Passing Requirements and Grade Point Averages :**

Following are the passing requirements and Semester/ Cumulative grade point averages (SGPA/CGPA)

### **11.1 Passing Standards**

Both CIE and SEE are given equal weightage and the student performance is judged by taking into accounts the results of CIE

and SEE individually and also combined. The passing standards are given in Table 7.

**Table 7. Details of Passing Standard for UG and PG Programmes**

	<b>Evaluation Method U.G.</b>	<b>Passing Standard P.G.</b>
CIE	≥ 40% of Max marks	≥ 50% of Max marks
SEE	≥ 40% of Max marks	≥ 40% of Max marks
CIE + SEE	≥ 40% of Max marks taken together	≥ 45% of Max marks taken together

**11.2** A candidate who secure 'E' grade (a grade point of 4 and above) in any course of study will be declared to have passed that course.

**11.3 Grace Marks :** Grace marks are awarded to the students in SEE for passing theory / practical and / or passing semester as per following attributes :

- ◆ **GR 01 :** Grace marks shall be awarded to theory / practical / head of passing to a maximum of 2% of total SEE marks, if and only if the candidate clears that theory / practical / head of passing with minimum prescribed marks.
- ◆ **GR 02 :** If a student failed in any one theory/practical / head of passing in SEE, he/she is eligible for 3 grace marks, if and only if he/she clears all courses of that semester. And not applicable for supplementary semester and Reregistered courses.

A student is granted either GR 01 or GR 02, not both. The granted grace marks is documented in the records but not disclosed in the grade card.

**11.4 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.

## 11.5 Calculation of Grade Point Averages

**11.5.1** Depending on the grade assigned, a student earns certain grade points as given in Table. 5. The grade points are used in the calculation of credit points earned by the students in a subject. The credit points earned in a course are equal to the number of credits assigned to the course multiplied by the grade points awarded to the student in that 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.

**11.5.2** 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.

**11.5.3 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).

### Formula For SGPA

$$\text{SGPA} = \frac{\{\Sigma[(\text{Course credits}) \times (\text{Grade points})]\}}{\{\Sigma(\text{Course credits})\}}$$

for of all the courses letter grades including 'E' and 'F' in that semester

for all the courses with letter grades including 'E' and 'F' in that semester

**11.5.4 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.

## Formula for CGPA

$$\text{CGPA} = \frac{\{\sum[(\text{Course credits}) \times (\text{Grade points})]\}}{\{\sum(\text{Course credits})\}}$$

for of all the courses with minimum passing grade 'E' and above until that semester

for all the courses with minimum passing grade 'E' and above until that semester

Both SGPA and CGPA are calculated to the second decimal position.

### TYPICAL EXAMPLE - 1

#### B.E. 'X' - Semester

Course Name	Course Credits	Marks CIE+SEE	Grade Obtained	Grade Point	Credit Points (Course Credits x Grade Points)	Earned Credits
Subject -S1	04	45	E	04	4 X 4 = 16	04
Subject S2	03	26	F	00	3 X 0 = 00	00
Subject S3	02	87	A	09	2 X 9 = 18	02
Subject S4	04	35	F	00	4 X 0 = 00	00
Subject S5	04	70	B	08	4 X 8 = 32	04
Subject S6	04	82	A	09	4 X 9 = 36	04
LAB L1	1.5	57	C	07	1.5 X 7 = 10.5	1.5
LAB L2	1.5	65	B	08	1.5 X 8 = 12	1.5
<b>Total</b>	<b>24</b>				<b>124.5</b>	<b>17</b>

In the above table for each student the following two values are determined

- ◆ Credit Points
- ◆ Earned Credits
- ◆ The credit points for a subject are equal to the number of credits assigned to the subject multiplied by the grade points awarded to the student in that subject.

- ◆ Earned Credits are equal to the course credits if the student has obtained a grade other than 'F' grade. For 'F' grade the earned credits are equal to zero

The calculation of credit points and earned credits is used to determine SGPA and CGPA as shown below

**TOTAL EARNED CREDITS IN 'X' SEMESTER = 17**

**B.E. 'Y' SEMESTER**

Course Name	Course Credits	Marks CIE+SEE	Grade Obtained	Grade Point	Credit Points (Course Credits x Grade Points)	Earned Credits
Subject -S1	04	48	D	05	4 X 5 = 20	04
Subject S2	03	55	C	07	3 X 7 = 21	03
Subject S3	02	82	A	09	2 X 9 = 18	02
Subject S4	04	45	E	04	4 X 4 = 16	00
Subject S5	04	25	F	00	4 X 00 = 00	04
Subject S6	04	85	A	09	4 X 9 = 36	04
LAB L1	1.5	71	B	08	1.5 X 8 = 12	1.5
LAB L2	1.5	72	B	08	1.5 X 8 = 12	1.5
<b>Total</b>	<b>24</b>				<b>135</b>	<b>20</b>

**TOTAL EARNED CREDITS IN 'Y' SEMESTER = 20**

**TOTAL EARNED CREDITS IN 'X' AND 'Y'  
SEMESTER PUT TOGETHER = 17 + 20 = 37**

$$\text{SGPA} = \frac{\{\Sigma[(\text{Course credits}) \times (\text{Grade points})]\}}{\{\Sigma(\text{Course credits})\}} = \frac{135}{24} = 5.60$$

for of all the courses letter grades including 'E' and 'F' in that semester

for all the courses with letter grades including 'E' and 'F' in that semester



$$\{\Sigma[(\text{Course credits}) \times (\text{Grade points})]\}$$

for of all the courses with minimum passing grade  
'E' and above until II semester

$$\text{CGPA} = \frac{\quad}{\quad}$$

$$\{\Sigma(\text{Course credits})\}$$

for all the courses with minimum passing grade  
'E' and above until II semester

$$\text{CGPA} = \frac{(16 + 18 + 32 + 36 + 10.5 + 12) + (20 + 21 + 18 + 16 + 36 + 12 + 12)}{(17 + 20)} = 7.01$$

## 12. Attendance requirement :

Though 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.

- 12.1 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 / Government / 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.
- 12.2 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.
- 12.3 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.
- 12.4 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.

- 12.5** 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 (odd/even) semester of a subsequent academic year. Under any circumstances such students are allowed to register for supplementary semester.
- 12.6** 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.
- 12.7** 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.

### **13. ELIGIBILITY REQUIREMENTS FOR PROMOTION TO NEXT ACADEMIC YEAR**

- 13.1** 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 has earned and also by the weighted grade point average basis.
- 13.2** There shall not be any restrictions for promotion from ODD semester to EVEN semester. However, a candidate is eligible for promotion from an EVEN semester to ODD semester and as per the following eligibility criteria.

For vertical promotion in order to move from one academic year to next academic year, that is from II semester to III semester, from IV semester to V semester and VI semester to VII semester for B.E. / B. Arch. In addition vertical promotion for B. Arch. students from VIII semester to IX semester, a student can carry a maximum of any FOUR 'F' grades including theory and labs and he/she should maintain a CGPA of 5.0.

### **14. 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 within a maximum period of ten 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.

## **15. Degree requirements and provisions**

### **15.1 Award of Degree**

- a) A candidate shall be declared to have qualified for the award of B.E. degree provided he/she has successfully completed the following requirements:
  - ◆ He/She has passed all the prescribed courses of study through a scheme of eight semesters and earned 200 credits (for lateral entry, six semester and earned 150 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.
  - ◆ At the end of eighth semester he/she has secured a CGPA of 5.0 or above.
- b) A candidate shall be declared to have qualified for the award of B.Arch degree provided he/she has successfully completed the following requirements:
  - ◆ He/She has passed all the prescribed courses of study through a scheme of ten semesters and earned 250 credits within a maximum period of ten years reckoned from the commencement of the semester to which the candidate was first admitted to the programme.
  - ◆ At the end of tenth semester he/she has secured a CGPA of 5.0 or above.
- c) A candidate shall be declared to have qualified for the award of M.Tech. degree provided he/she has successfully completed the following requirements:
  - ◆ He/She has passed all the prescribed courses of study through a scheme of four semesters and earned 100 credits, within a maximum period of four years reckoned from the commencement of the semester to which the candidate was first admitted to the programme.
  - ◆ At the end of fourth semester he/she has secured a CGPA of 5.5 or above.

## 15.2 Award of Class at Semester Level

Sometimes, it is necessary to provide equivalence of these averages, viz., SGPA and CGPA with the percentages and/or class awarded as in the conventional system of declaring the results of University examinations. This shall be done by prescribing certain specific thresholds in these averages for Distinction, First Class and Second Class, as shown in Table 8

**Table 8: Percentage Equivalence of Grade Points  
(For a 10-Point Scale)**

Grade Point	Percentage of Marks/Class(Grade Point - 0.75)/100
5.75	50 (Second Class)
6.25	55
6.75	60 (First Class)
7.25	65
7.75	70 (Distinction)
8.75	75

- a) For the award of First class with Distinction in a semester, the candidate should have earned all the credits stipulated in that semester in the first attempt only with a SGPA of 7.75 and above in that semester.
- b) For the award of First class in a semester, the candidate should have earned all the credits stipulated in that semester not more than two attempts with a SGPA 6.75 or more, after considering his/her performance in the first attempt. If a candidate has withdrawn a course in the first attempt during a semester, the SGPA is computed assigning a 'F' grade for the withdrawn course(s).
- c) For the award of second class in a semester a candidate should have earned all the credits stipulated in that semester fulfilling the eligibility criteria mentioned in 13.2 and not fulfilling the conditions specified in 15.2.a and 15.2.b

## 15.3 Award of Class at Degree Level

- a) A candidate who is qualified for the award of degree as stated in 15.1 shall be awarded the degree in First Class with Distinction provided he/she has secured a CGPA not less than 7.75.
- b) A candidate who is qualified for the award of degree as stated above shall be awarded degree in First Class provided he/she has

secured a CGPA of 6.75 and above but less than 7.75.

- c) A candidate who is qualified for the award of degree as stated above shall be awarded the degree in Second Class if he/she has secured a CGPA less than 6.75.

#### **15.4 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 / University

### **16. TRANSFER OF STUDENTS**

#### **16.1 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 no objection certificate from both the concerned Colleges and subject to approval of the University and DTE.

#### **16.2 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.

### **17. 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. It should be noted that the minimum and maximum credits that can be registered for odd and even semester are 20 and 30 credits respectively.

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

### **17.1 Faculty Advisor**

From III semester onwards 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.

### **17.2 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.

### **17.3 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.

### **18. GRADE CARD**

Grade card is issued two weeks after the announcement of results. If necessary, students may collect a copy of the same by making an application to the principal or download from the College website. For subjects passed after re-registration, the year of passing shall be indicated against that subject. For obtaining a duplicate grade card, the student has to lodge a complaint in Police station and obtain FIR and approach the Principal through the respective head of the department. Marks secured by student in CIE and SEE for the courses appeared for SEE will be displayed in result sheet. However in grade card only grades are displayed.

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

#### **19.1 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.

#### **19.2 Termination from the Program**

A student may be required to withdraw from the program and leave the Institute on the following grounds; Failure to obtain the eligibility for the third semester after a period of three academic years from the date of first admission.

Failure to obtain the eligibility for the fifth semester after a period of five academic years from the date of first admission.

Failure to complete all the prescribed courses of study within a period of eight years for a UG course and four years for a PG course

Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by competent authorities.

Failure to meet the standards of discipline as prescribed by the Institute from time to time.

**NFT Rule :** If a student gets five F grades for the same subject that is if a student fails to obtain a passing grade ('E' and above) even after five attempts in that subject, he/she will be treated as Not Fit for Technical course as per NFT rule of University. If such a student wants to continue his/her studies, he/she can take readmission once again to that semester. However a candidate has to complete his degree within 8 years. In case of PG students the duration for completion of course is 4 years.

### **19.3 Conduct and Discipline**

**19.3.1** Each student shall behave himself / herself in a manner befitting his/her association with College. 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. Principal / Dean Student Affairs will issue the character and conduct certificate if a student requests it.

**19.3.2** 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.

**19.3.3** 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.

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.

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

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.

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.