

Visvesvaraya Technological University

Jnana Sangam Machhe, Belagavi-590018, Karnataka India



(Award of Bachelor of Engineering/Technology Degree)
Regulations, 2022

REGISTRAR

Academic Section

Visvesvaraya Technological University

Jnana Sangama, Machhe,

Belagavi-590018, Karnataka

0831-2498112,



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PREAMBLE:

The quality of Technical Education depends on many factors but largely on- the outcome-based socially and industrially relevant curriculum, good quality motivated faculty, teaching learning process, effective industry internship and evaluation of students based on desired outcomes. To regulate, in an orderly manner, the process of admission, registration of students, conduct of classes, teaching-learning, Assessment, Evaluation and Grading processes to award Bachelor of Engineering/ Technology degree in Visvesvaraya Technological University, Belagavi and the Colleges affiliated to it, with due consideration to the NEP-2020 policy, and applicable Regulations of UGC and AICTE, in exercise of the powers conferred under Section 22 of UGC Act 1956 and under Sections [7(2) and 8(1,2, & 4)] of the VTU Act 1994, hereby, makes the following Regulations, namely:-

1. SHORT TITLE, APPLICATION AND COMMENCEMENT:

- 1.1. These Regulations may be called the Visvesvaraya Technological University [Award of Bachelor of Engineering/ Technology Degree] Regulations, 2022.
- 1.2. These Regulations shall apply to all the B.E./ B.Tech. Programmes conducted at the Visvesvaraya Technological University, its constituent Colleges and all other Colleges affiliated to it.
- 1.3. They shall come into force with effect from the date of their notification by the Visvesvaraya Technological University, Belagavi.
- 1.4. These Regulations shall replace all the previous VTU B.E./ B.Tech. Regulations. or These Regulations shall be applicable to the batch of students admitted from the academic year 2022-23 and later and will be in force until revised or withdrawn by a notification.

2. DEFINITION OF KEY WORDS:

In these Regulations, unless the context otherwise requires:

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



- 2.2. **Academic Year:** Two consecutive semesters (odd followed by an even), including intervening periods constitute one Academic Year.
- 2.3. **Act:** The Visvesvaraya Technological University Act 1994 including the amendments thereon.
- 2.4. **Choice-Based Credit System (CBCS):** The CBCS provides students with choices from the prescribed set of courses viz. Engineering Sciences, Professional core and electives, Professional and Open Electives, Non-Credit Mandatory Courses, Internships and Skill Courses. Under the CBCS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
- 2.5. **College:** An affiliated or constituent institution of the University and is read as Department of the University, in the context of a programme offered by the Department of a University
- 2.6. **Constituent College:** An Institution operating under the administrative, academic, and financial control of the University and declared as such under the Notification. It is an institution maintained by the University as such and includes an institution admitted to the privileges of the University as an affiliated College of the University in accordance with provisions of the Act.
- 2.7. **Course:** Usually referred to as 'subject' / 'paper' and is a component of a Programme with defined learning objectives, course outcomes and number of credits. The course credits vary depending on the required teaching-learning hours to accomplish the learning outcomes, specified in the course syllabus. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ fieldwork/outreach activities/project work/ vocational training/ viva-voce/ seminars/ term papers/ assignments/presentations/ self-study components etc., or a combination of some of these.
- 2.8. **Course Code:** Courses shall be coded based on the learning outcomes, level of difficulty, and academic rigor. The coding structure is defined as follows:
- 0-99:** Basic pre-requisite/ bridge/ introductory courses required to be undertaken, which will be a pass or fail course with no credits.
 - 100-199:** Foundation or introductory courses that are intended for students to gain an understanding and basic knowledge about the subjects and help decide the subject or discipline of interest. These courses may also be prerequisites for courses in the major subject. These courses generally would focus on foundational theories,



concepts, perspectives, principles, methods, and procedures of critical thinking to provide a broad basis for taking up more advanced courses. These courses seek to equip students with the general education needed for advanced study, expose students to the breadth of different fields of study; provide a foundation for specialized higher-level coursework; acquaint students with the breadth of (inter) disciplinary fields in the arts, humanities, social sciences, and natural sciences, and to the historical and contemporary assumptions and practices of vocational or professional fields; and to lay the foundation for higher-level coursework.

- c) **200-299:** Intermediate-level courses including subject-specific courses intended to meet the credit requirements for minor or major areas of learning. These courses can be part of a major and can be pre-requisite courses for advanced-level major courses.
- d) **300-399:** Higher-level courses which are required for majoring in a disciplinary /interdisciplinary area of study for the award of a degree.
- e) **400-499:** Advanced courses which would include lecture courses with practicum, seminar-based course, term papers, research methodology, advanced laboratory experiments / software training, research projects, hands-on-training, internship/ apprenticeship projects at the undergraduate level or First year Postgraduate theoretical and practical courses.

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

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

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



| Table-1 Credit Values | | | | |
|--|-----------------------------------|---|--------------------|------------------|
| Theory / Lectures(L) (Hours/week/sem) | Tutorials (T) (Hours/week/sem) | Laboratory/Practical(P) (Hours/week/sem) | Credits (L:T:P) | Total Credits |
| 4 | 0 | 0 | 4:0:0 | 4 |
| 3 | 0 | 2 | 3:0:1 | 4 |
| 2 | 2 | 2 | 2:1:1 | 4 |
| 3 | 0 | 0 | 3:0:0 | 3 |
| 2 | 2 | 0 | 2:1:0 | 3 |
| 2 | 0 | 2 | 2:0:1 | 3 |
| 0 | 0 | 6 | 0:0:3 | 3 |
| 2 | 0 | 0 | 2:0:0 | 2 |
| 1 | 0 | 0 | 1:0:0 | 1 |
| 0 | 0 | 2 | 0:0:1 | 1 |

2.12. Choice-Based Credit System (CBCS): The education model refers to customizing the Coursework, Core, Professional Elective, Open Electives, Skill-based ability Enhancement Courses, Non-Credit Mandatory Courses, and Internships to provide the necessary support for the students to achieve their goals.

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

2.14. Course Evaluation: This represents the measurement of the impact of the teaching-learning process and offers an opportunity for improving the quality of learning in courses and teaching performance. Courses evaluation is done by adopting different methods such as tests, quizzes, assignments, etc., during the teaching-learning period at the end of some modules or chapters of syllabus contents and at the end of the semester. While the former part of the evaluation is called the Continuous Internal Evaluation (CIE) and the latter part of the evaluation is called Semester End Evaluation (SEE).

2.15. Course Registration: It is a formal registration to Courses of study every semester by every student under the supervision of a Mentor(also called Faculty Advisor, Counselors) in the college to maintain proper records. Registration on the University portal is mandatory.



- 2.16. **Cumulative Grade Point Average (CGPA):** This is a measure of the cumulative performance of a student of all semesters and is computed from the 2nd semester onwards. It is a measure of the overall cumulative academic performance of a student over the entire span of the academic program. CGPA is not an arithmetic mean but a weighted mean. It is also a number that lies between 0 and 10.
- 2.17. **Dean:** Dean of concerned Faculty of the University.
- 2.18. **First Attempt:** A student who has studied in a semester and attended any one of the University examinations of that semester after satisfying attendance and CIE requirements for the prescribed courses of that semester and has registered for SEE. Such an attempt shall be considered the first attempt. Even if the student is absent for all the semester exams after registering for SEE, such an attempt shall also be considered the first attempt.
- 2.19. **Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester-end examination. The grade card shall have the Program details (Course code, title, number of credits, grades secured, along with the SGPA of that semester and CGPA (except for the first semester) earned till that semester.
- 2.20. **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale against a range of percentage of marks secured by students in a course.
- 2.21. **Institution:** An institution of higher education engaged in teaching and research at the undergraduate, post-graduate or higher levels.
- 2.22. **Letter Grade:** Course Letter Grade (or simply letter grade or grade) is an index of performance of a student in a said course and refers to a qualitative measure of achievement of a student in each course, based on the percentage range of marks secured in CIE and SEE put together or CIE alone. Grades are denoted by letters O, A+, A, B+, B, C, and F. The rubrics attached to letter grades are as follows: **O:** Outstanding, **A+:** Excellent, **A:** Very Good, **B+:** Good, **B:** Above Average, **C:** Average, **P:** Pass and **F:** Fail. Additional letter grades used under special circumstances are, **DX:** Attendance below 75%, **AU:** Satisfactory in an Audit course, **AB:** Absent for the Course, **PP:** Passed in Non-credit course, **NP:** Not Passed in Non-credit course, **W:**



Dropped/ withdrawn.

- 2.23. **Non-Credit Mandatory Courses (NM):** In the case of non-credit mandatory courses, students shall attend the classes during the respective semesters to satisfy the attendance requirements as well as CIE requirements. In case, any student fails to register for the said course/fails to secure the minimum 40% of the prescribed CIE marks, he/she shall be deemed to have not completed the course. In such a case, the student has to fulfill the requirements during subsequent semester/s to appear for CIE. These Courses shall not be considered for CGPA calculation and vertical progression, but completion of the courses shall be mandatory for the award of a degree.
- 2.24. **Major Degree:** A Major degree will be awarded along with “Honours” distinction if a student completes a specified additional number of credits related to his/her regular programme as per the Regulations governing Honours Programme. A student admitted to the Programme shall be eligible to register to “Honours” programme if he/she fulfils the conditions as per the Regulations.
- 2.25. **Mentor:** A Faculty Advisor allotted by the principal to guide about 15-20 students about their registration to the courses and progression in the Programme
- 2.26. **Notification:** A notification issued by the concerned Statutory Officer of the University.
- 2.27. **Minor Degree:** A Major degree along with Minors is awarded in a programme if a student completes the required number of credits of another programme as per the Regulations governing Minor Programme. A student shall be eligible to register to a Minor programme if he/she fulfills the conditions as per the Regulations
- 2.28. **Multiple Entry and Multiple Exit (MEME):** The multiple entries and exit points in the academic programmes would remove rigid boundaries and create new possibilities for students. To facilitate flexible learning within the stipulated period (eight years for regular students and 06 years for lateral entry students), multiple-entry and multiple-exit options are offered to needy students.
- 2.29. **Passing Standards:** Refers to passing a Course only when GP is greater than or equal to 04.
- 2.30. **Principal:** The Head of the College or an Higher Educational Institution (HEI). In the case of programmes offered at University campuses, it shall be read as Head/ Chairperson of the Department through which the programme is offered.



- 2.31. **Programme:** A planned series of events/activities comprising of a combination of courses leading to the award of degree.
- 2.32. **Semester:** One of the two sessions of an Academic Year, each session being of sixteen weeks' duration (with not less than 90 working days). The odd and even semesters shall be as per the University academic calendar.
- 2.33. **Semester End Examinations (SEE) (also called Summative Assessment):** Also called summative assessment, which refers to the examinations conducted by the University covering the entire course syllabus. For this purpose, syllabi shall be modularized, and SEE questions shall be set from each module as specified by the University.
- 2.34. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of a student in a semester. It is the weighted average or weighted mean of the grade points obtained by a student in the various courses of any semester. It results in a number that lies between 0 and 10. It shall be expressed up to two decimal places.
- 2.35. **Teacher:** A member of the regular faculty at the levels of Professor, or Associate Professor or Assistant Professor, and includes adjunct faculty and faculty on a long-term contract of not less than three years.
- 2.36. **Transcript, Grade Certificate and Grade Card:** Grade card shall be issued to candidates indicating the programme details (Course code, title, number of credits, grade secured and grade points) for all the registered courses after every semester. On successful completion of all courses/earning credits, specified in the Scheme of Teaching and Evaluation of a semester, the grade certificate is issued indicating the programme details along with SGPA of that semester and CGPA earned till that semester. Transcripts to the successful candidates shall be issued after completion of the programme.
- 2.37. **University:** Visvesvaraya Technological University (VTU), Belagavi, which is established under the Karnataka State Act as defined in the University Grants Commission Act, 1956.



REGULATIONS

22OB1.0. TITLE AND DURATION OF THE PROGRAMME

22OB1.1: The Programme of study, which is an undergraduate Programme, shall be called the degree of Bachelor of Engineering/Bachelor of Technology, abbreviated as B.E./B.Tech., followed by specialization indicated within brackets.

22OB1.2: The duration of the Programme for B.E./ B.Tech. degree shall be four academic years, organized in eight semesters, with each semester having duration of 16-18 weeks, having provision for Multiple-Entry-Multiple-Exit and award of Honours degree or Minor degrees.

22OB1.3: The annual academic calendar of events in respect of the Programme of study approved by the Academic Council, shall be notified at least a month before the commencement of each academic year. It is mandatory for students/ faculty members to strictly adhere to the Academic Calendar for completion of academic activities. Academic Calendar shall be displayed on the Academic Office homepage of the University website.

22OB2.0. ACADEMIC ELIGIBILITY FOR ADMISSION

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

22OB2.1. Admission to 1st year: Eligibility for candidates Passed in second PUC or equivalent,

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

22OB2.2. Admission to 2nd year (Lateral Entry): Eligibility for candidates who have passed a 3-year Diploma in Engineering and B.Sc. Degree shall be,

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



by the Director of Technical Education, Karnataka.

22OB2.3. Qualification earned from foreign Countries:

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

22OB2.3.4 Additional Requirements:

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

22OB3.0. CURRICULUM FRAMEWORK AND ACADEMIC PROCESSES

22OB3.1. Semesters – Odd and Even:

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

22OB 3.2. Curriculum:

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

It provides the syllabus and a list of text/ reference books (or other learning material sources) for each course. The Courses of Study details are updated every semester and are made available at the University website: <http://vtu.ac.in/BEBTECH/>. Curriculum shall also include some SWAYAM and Massive Open Online Courses



(MOOCs), approved by the University. However, selection of such courses, if any, shall always be within prescribed guidelines of the relevant regulatory bodies.

220B 3.2.1. Choice Based Credit System (CBCS):

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

220B 3.2.2. Types of Courses:

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

- 1) Humanities and Social Sciences (HS), including Management, Skill enhancement and Economics.
- 2) Basic Sciences (BS) including Mathematics, Physics, Biology and Chemistry.
- 3) Engineering Sciences (ES) including Workshop, Drawing, Basics of Electrical/



Civil/ Mechanical/ Computer Engineering, Materials, and Instrumentation.

- 4) Professional Core Courses (PC): These are the courses to be compulsorily studied by a student as a core requirement to complete the requirements of a programme in a said discipline of study.
- 5) Professional Elective Courses (PE): These are the courses from which a student can choose and study as part of the requirement to complete the programme in a said discipline of study.
- 6) Open Elective Courses (OE): These courses are supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline/ domain and they are chosen from the pool of courses.
- 7) Skill development Courses (SD): These courses will be nurturing student proficiency skills. These courses are offered to achieve the programme outcomes not specifically covered by the other courses.
- 8) Ability Enhancement Courses (AE): These are the generic skill courses which are basic and needed to all to ensure progression across all careers.
- 9) Non-Credit Mandatory Courses (NM): These are courses on peripheral subjects in a programme, wherein familiarity is considered mandatory.
- 10) Project work (PW), Mini Project work (MP), and Internship (IS) are also considered as courses in the programme.

220B 3.2.3. Offering Courses

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

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



9) Non-Credit Mandatory Courses (NM) require only a pass in each of the specified courses to qualify for the award of the Degree.

10) Project work (PW), Mini Project work (MP) and Internship (IS) are offered which may have 10, 2, and 3 credits respectively.

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

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

The courses for a programme under the following types from (a) to (m) shall be designed within the framework of UGC and AICTE guidelines by the concerned Board of Studies and approved by the Academic Senate of the University.

The details of Theory courses from (a) to (i) and Practicals from (j) to (l) are given below.

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

(j) Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a disciplinary or an inter-disciplinary major project can be assigned to a group having not more than 4 students. The main project work needs to be taken up within the institute/ research laboratory/industry. It is desirable, that the outcome of the project work may be published/patented.

(k) Mini Project work:



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

(I) Internship:

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

The institution shall encourage students to take up,

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

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

University shall not bear any cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by the College.

The course viva-voce examination shall be conducted at the end of the internship period.

22OB 3.2.4. Audit Courses:

A student desirous of additional exposure to a course, without the rigors of obtaining a good grade, 'audits' a course. The minimum requirement of attendance for an 'Audit Course' is 75%, with any additional requirements as set by the instructor such as submission of assignments and minimum performance in some of the in-semester



evaluations. Auditing of courses during regular semesters from 3rd semester onwards is permitted under the following conditions:

- 1) Students with CGPA > 6.0 will be permitted to 'Audit' a course. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor is required.
- 2) Audit courses would be restricted to a maximum of two (2) courses per student in the entire period of the programme.
- 3) The Course Teacher would award the 'AU' grade, if the attendance is satisfactory and additional requirements, as set out by the Course Teacher, are met. If the attendance and performance in additional requirements is not satisfactory, the Course Teacher will award 'No Grade'. The grade 'AU' does not carry any grade points and therefore does not figure in SGPA/ CGPA calculations
- 4) The course successfully completed in Audit mode will be reflected in the Semester Grade card and the Transcript as Audit Course.

220B3.3. Prescribed Number of Credits for the Programme

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

- 1) The total number of credits to be earned by students admitted to the first semester of the four year B.E./B.Tech. programme shall be **160**.
- 2) The total number of credits to be earned by students admitted under lateral entry scheme to the third semester of the four year B.E./B.Tech. programme shall be **120**.
- 3) A student shall be eligible to obtain an Undergraduate degree with **Honours/ Minor**, if he/she earns a minimum of **additional 18 credits**, as specified by the University. This clause shall be read along with "VTU (Award of B.E./B.Tech. Honors/ Minors Degree) Regulations, 2022'.

220B3.4. Curriculum Framework

The structure of UG program in Engineering shall have essentially the following types of courses with the breakup of credits as given:



Table – 3.4 : Credit Breakup for a Programme

| Sl. No. | Category | Credits | % of total Credits |
|---------|--|--------------|--------------------|
| 1 | Humanities and Social Sciences including Management courses, including AE | 16 | 10.00 |
| 2 | Basic Science courses | 22 | 13.75 |
| 3 | Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer/PL/ET etc. | 24 | 15.00 |
| 4 | Professional Core courses relevant to chosen specialization/branch | 59 | 36.88 |
| 5 | Professional Elective courses relevant to chosen specialization/branch | 12 | 7.50 |
| 6 | Open subjects – Electives from other technical and /or emerging subjects | 12 | 7.50 |
| 7 | Project work and internship in industry or elsewhere | 15 | 9.37 |
| 8 | Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Knowledge Tradition] | (non-credit) | 0.00 |
| | Total | 160* | 100.00 |

*Minor variation is allowed as per need of the respective disciplines.

220B3.5. Scheme of Teaching and Evaluation

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

Table – 3.5 : Semester-wise Allocation of Credits

| | Semester | Credits | Total | |
|--|----------|---------|-------|--|
| | | | | |



| | | | Credits | <ul style="list-style-type: none">• Lecture(L): one hour/week : 1 credit• Tutorial(T): Two hours/week: 1 credit• Practical/ Lab/ Drawing (P): Two hours/ week: 1 credit• Project, Mini-project, Internship: credits as recommended by the University.• Credit for the Seminars shall be part of the courses. |
|----------|---|-----|---------|--|
| I year | 1 | 20 | 40 | |
| | 2 | 20 | | |
| II Year | 3 | 20 | 40 | |
| | 4 | 20 | | |
| III Year | 5 | 20 | 40 | |
| | 6 | 20 | | |
| IV Year | 7 | 20 | 40 | |
| | 8 | 20 | | |
| Total: | | 160 | | |

2) Course Load:

Every student to register for a set of Courses in each Semester, with the total number of their Credits being limited by considering the permissible weekly Contact Hours (typically: 30/Week); For this, an average Course Load of 18-22 Credits/Semester (e.g., 6-7 Courses) generally acceptable; to also include 2 or 3 Units of Non-Credit Mandatory Courses in some Semesters.

3) Teaching-Learning Process

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

- 4) The Scheme of Teaching and Evaluation provides the list of courses offered in a semester, their types, course credits in L-T-P format and the contact hours.
- 5) The Syllabus formulated shall be well structured and enable CBCS implementation, MEME options and incorporate Outcome Based Education (OBE) framework.
- 6) The University/Colleges shall provide necessary class rooms, Laboratory equipments, Internet and computing laboratories, Library, qualified faculty and other supporting facilities to meet the standards as specified by the University and



concerned Statutory bodies to create proper teaching-learning environment for the students.

220B 3.6. Course Registration

It is mandatory for every student to register for the semester to attend various courses/ earn credits, using the prescribed Course Registration Form (CRF), till he completes his programme. The registration is normally done on the last two working days of each semester upon completion of the SEE. In all circumstances, registration shall be completed on or before the prescribed last date for registration announced in the Academic Calendar. The registration of courses each semester with the University portal is mandatory.

- 1) On joining the Programme, each student is assigned to a Mentor. A student shall register for required courses each semester with prior permission of the Mentor.
- 2) The student can register for courses he intends to take during a given semester on the basis of his plan for each Programme, as given in the Scheme of Teaching and Evaluation and as per the advice given by his Mentor.
- 3) The Mentor is expected to discuss with the student his academic performance during the previous semesters and then decide the number and nature of the courses for which the student can register during the semester within the framework of the Regulations.
- 4) The Mentor may advise the student to drop one or more courses/activities based on his academic performance. The Mentor may even advise a reduced load program over several semesters for students with poor performance at the end of the first semester/year.
- 5) Students are not permitted to reregister for course/(s), which they have already passed.
- 6) Students having outstanding dues to the University/ College, or a hostel may not be permitted to register.
- 7) The registration is deemed to be complete only on approval by the University.
- 8) Without registration, any academic activity (course/seminar etc.) undergone by a student will not be counted towards the requirements of his degree.



- 9) The minimum number of students registered to any Professional Elective Course /Open Elective Course/Ability Enhancement course (from 3rd semester onward) offered by the Departments shall not be less than ten. In such cases, If the number of registrants for the elective course is less than 10, the college must seek permission from the Registrar (Evaluation) within 15 days from the date of commencement of the semester as per the academic calendar of the University, if that Professional Elective Course /Open Elective Course/Ability Enhancement course is to be offered in that college.
- 10) A student shall exercise the option in respect of a higher semester Professional Elective Course/Open Elective Course /Ability Enhancement course and register for the same at the end of the previous semester. However, the student may be permitted to opt for a change of Elective Course/s preferably within 15 days from the date of commencement of the semester as per the academic calendar of the University.
- 11) Permitted Maximum credits for registration: The student shall be permitted to register in a semester for total courses not exceeding 30 credits. These 30 credits include the courses of the regular semester and backlogs. The registration of these additional credits includes the courses with a shortage of attendance and the courses with unfulfilled CIE requirements. A student shall pay the prescribed registration fees as notified by the University from time to time.

220B 3.6.1. Procedure for Course Registration:

1) The procedure involves the following steps:

- a) The students shall decide on the courses to be registered during the ensuing semester immediately after their SEE examinations as per the advice of their Mentor.
- b) They shall fill up the CRF online, stating the courses that they propose to complete during the ensuing semester as per the prescribed curriculum.
- c) They shall take a printout of the completed CRF, take signature of the Mentor and submit to the Dean/ Principal within the date notified by the University for registration.

2) Registration for the Courses:

The Registration is dependent on the academic standing of the student and his/ her



interest. Every student however is permitted to register for a maximum of **28** credits in any semester excluding Minor/ Honours degree courses.

3) Late Registration:

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

4) Registration for Non-credit Mandatory courses:

Non-credit requirements are assessed as Pass (PP)/ Not Pass (NP) subject to the fulfillment of the minimum requirements of the specified activities and a minimum of 75% attendance. The award of degree is subject to successful completion of these requirements. Formal registration for these courses shall also be done along with other courses, at the beginning of the semesters.

A student will be awarded PP (Pass) grade for the course he is registered for, in that semester, provided the minimum requirement is met during that semester together with attendance criteria.

Not satisfying these requirements will result in a failure grade NP (Not Pass), and the student has to re-register for the course when offered next in the subsequent semesters and pass within two years. The grades shall be submitted to the Dean before the commencement of the SEE.

5) Course substitution:

In case a student obtains F grade four times in a course, other than the Professional core courses, the student is permitted to opt for an equivalent course substitution approved by the University and complete the course requirements within the stipulated duration. The student must re-register the specified equivalent course and complete it. A student shall be permitted to avail this option beyond a maximum of two courses.

220B 3.7. Student Mentoring

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



manner.

220B3.8. Attendance Requirement

- 1) Every prescribed course shall be considered as a unit for the calculation of attendance. All students are required to attend all the lectures, tutorials, practical, and other prescribed curricular and co-curricular activities, and earn full attendance. However, a student shall obtain a minimum attendance of 85% in each of the courses registered. However, if the attendance is below 85%, the shortage up to a maximum of 10% of the attendance may be condoned by the Vice-Chancellor on the specific recommendations of the Dean/ Principal of the college where the candidate is studying. This provision shall be utilised based on medical grounds, participation in NSS/NCC/Red cross/National level Republic Day and Independence Day Parade/participation in University/State/National/International level sports and cultural activities, seminars, workshops, paper presentation, etc., of significant value, supported by valid documents. The Dean/course teacher may recommend for condoning the shortage of attendance and submit the application with documents through the Principal along with his recommendation to the office of the Registrar (Evaluation) before the last day of the semester.
- 2) The basis for the calculation of attendance shall be the period prescribed by the University by its academic calendar of events and as notified by the Registrar.
- 3) In case of late admissions, approved by competent authority (KEA/DTE/VTU), for admission to I semester and III semesters (for lateral entry scheme), the attendance shall be reckoned from the date of admission to the Programme.
- 4) The Principal shall also notify every month, the list of candidates who are falling short of required attendance. The Course Instructor/ Mentor/Class-teacher or the College office shall inform the students as well as their parents/guardians about the attendance requirement and the attendance status every month. Students facing an attendance shortage shall be mentored to make up for the shortage.
- 5) A student who does not satisfy the attendance requirement in one or more Courses (including bridge courses for lateral entry students if any)



shall not be eligible to appear for the Semester End Examinations (SEE) of that course(s). The grade card for such courses shall be marked as DX. The candidate shall be required to repeat that course/s whenever that course/s is offered next. However, the student will be allowed to appear for the SEE in other courses of the semester.

- 6) The student will repeat the course/s in which he/she falls short of attendance, whenever the course/s is offered next.

22OB4.0. ASSESSMENT AND EVALUATION PROCEDURE

Formative, Summative and other assessments shall be conducted in the courses offered to the registered students, within the framework of Scheme of Teaching and Evaluation approved by the University Statutory Academic Bodies, as per the University calendar of events.

22OB 4.1 Assessment and Evaluation Process:

- 1) CIE and SEE constitute the major evaluations prescribed for each course, with only those students maintaining a minimum standard in CIE are permitted to appear in SEE of the course.
- 2) In such cases where a laboratory is attached to the course, CIE marks shall be awarded separately for both theory and the laboratory. However, the laboratory may or may not have the SEE component in the evaluation.
- 3) CIE and SEE to carry 50% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits.
- 4) The evaluation system of the program is comprehensive and continuous during the entire period of Semester, by the faculty who is teaching the course. For a course, the evaluation and grading will be on the following parameters:

| | | |
|---|---|-----------|
| A | Continuous and Comprehensive Evaluation (CCE) | 25 marks |
| B | Internal Assessment Tests (IAT) | 25 marks |
| | Total of CIE (A+B) | 50 marks |
| C | Semester End Examination (SEE) | 50 marks |
| | Total of CIE and SEE (A + B + C) | 100 marks |

22OB4.2. Continuous Internal Evaluation (CIE)

- 1) The CIE will carry a maximum of 50% weightage of total marks of a course. Before the



start of the Academic session of each semester, a faculty may choose for his course **Internal Assessment Test** and a **minimum of two of the following assessment methods** with suitable weightage for each.

- i) Assignments (Individual and/or Group)
 - ii) Seminars
 - iii) Oral/Online Quizzes
 - iv) Group Discussions
 - v) Case studies/Case lets
 - vi) Practical orientation on Design Thinking, Creativity & Innovation
 - vii) Participatory & Industry-integrated learning
 - viii) Practical activities / problem solving exercises
 - ix) Class presentations
 - x) Analysis of Industry/Technical/Business Reports
 - xi) Reports on Guest Lectures / Webinars / Industrial Visits
 - xii) Industrial / Social / Rural projects
 - xiii) Participation in Seminars/ Academic Events/Symposia, etc.
 - xiv) Any other academic activity
- 2) The faculty will submit the 'CCE Assessment Plan' to the Dean for approval and notify the same along with the course syllabus before the start of semester. The total marks of the above two assessment components shall be scaled down to 25 marks/ 25% of total marks of the respective course.
 - 3) To assess the students in a course under IAT component, two tests will be conducted in a semester. Each test will be conducted for 25 marks. The average marks obtained in these two tests will be taken as IAT Marks. If a student fails to attend the IAT on the scheduled date, an additional test at the end of the semester would be conducted covering the syllabus of the test for which he was absent.
 - 4) The CIE marks awarded to students at different stages during the course shall be displayed on the notice board of Faculty of Engineering and Technology to enable the students to point out any discrepancies. After due corrections, if any, faculty shall upload the CIE marks in the University's ERP system and a hard copy of the same shall be submitted to the Registrar (Evaluation) of the University duly signed by the concerned



faculty and the Dean before the commencement of semester end examinations.

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

220B 4.3. Semester End Examination:

- 1) The Semester End Examination for all the courses offered during the semester shall be conducted at the end of each semester except when there are no students taking examination for any course as per the scheme of teaching and examinations.
- 2) Only those students who satisfy the attendance requirement as per 220B3.8 and CIE requirement as per 220B 4.2 shall be eligible to appear for SEE of that course.
- 3) University examination for all Courses under SEE shall be conducted for a maximum of 100 Marks. The



marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50 marks to add the same with the CIE marks for the award of the letter grade.

- 4) The University examinations for all the Programmes of study shall be conducted at the end of each semester.
- 5) Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog course/s may face a situation where they may have
 - a) Two examinations scheduled at the same time of the day,
 - b) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and
 - c) Examinations on consecutive days.
- 6) As changing the examination dates is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in the second and third cases, the students shall manage the examinations as per their decision.
- 7) For all theory Courses /drawing Courses/practical/field work, **the maximum SEE marks** shall be 50, the minimum SEE marks to be secured shall be 35 % of the maximum marks (18 marks).
- 8) Mini-Project is not having any SEE component.
- 9) Students who satisfy the conditions (6), (7), and (8) above, and obtain any grade from O to P in a course shall be considered to have passed that course.
- 10) A student shall be declared fail if he/she
 - Fails to satisfy the conditions under Section (9) above,
 - Absents himself/herself from the University examinations,
 - The course/s in which student/s fail to satisfy attendance and CIE requirement (AU courses) are also considered as F only.
- 11) If a student secures an 'F' grade in any of the Courses, he/she shall reappear for that Course(s) during the subsequent SEE. The CIE marks awarded to the student at the first attempt in the concerned Course (s) shall be carried forward. Revised



CIE marks are considered only in NE cases (not eligible to appear for SEE due to non-comply of attendance and CIE).

The sum total of CIE and SEE marks must be 40% of the maximum marks prescribed for a course as per the teaching and examination scheme.

22OB 4.4.CIE and SEE Assessment in Specific Courses:

Examination and Evaluation for all the Courses shall be done as specified under Sections 4.1, 4.2 and 4.3 above for SEE and CIE. However, for some specific courses, the procedure is made clear in the following sections.

22OB 4.4.1. CAED

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

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

22OB 4.4.2. Engineering Graphics/ Drawing/Field Works (Courses offered in the higher Semesters)

1) Engineering Graphics and Drawing (Laboratory Course)

- a) The CIE marks awarded for higher semester Engineering Graphics/ Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 80:20. Method of assessing the CIE for such courses shall be as mentioned in the syllabus of the course.
- b) The SEE shall be conducted and evaluated for a maximum of marks 100. Marks obtained shall be accounted for SEE final marks, reducing it by 50%.
 - (i) SEE will be conducted by the two examiners of the same institute one act as Internal Examiner and the other act as External Examiner.
 - (ii) Question paper shall be set jointly by both Internal and External Examiner and made available for each batch as per schedule. Examiners



may refer question bank.

- (iii) Evaluation shall be carried out jointly by both examiners as per the scheme of Teaching and evaluation.

2) Field Works

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

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

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

The sum of the report and test marks shall be the total CIE marks for fieldwork.

- b) SEE for fieldwork Conducted by the two examiners of the same institute appointed by the university. Report and design drawing evaluation and viva-voce are in the ratio of 60:40. Fieldwork will be jointly evaluated by the Internal and External examiners. The duration of SEE is 03 hours.

220B 4.4.3. Practical Courses:

1) CIE for Practical Work Courses

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



- (i) Each experiment to be evaluated for conduction with observation sheet and record write-up. Split up of marks for the evaluation of the journal/write-up for hardware/software experiments designed by the faculty who is handling the laboratory session and shall be made known to students at the beginning of the practical session.
- (ii) Record shall contain all the specified experiments in the syllabus and each experiment write-up be evaluated for 10 marks.
- (iii) Total marks scored shall be scaled down to 30 marks (60% of maximum marks).
- (iv) Weightage to be given for neatness and submission of record/write-up on time.
- (v) Department shall conduct one test for 100 marks, after the completion of the experiments.
- (vi) In test write-up, conduction of experiment, acceptable result, and procedural knowledge shall carry a weightage of 60% and the rest 40% for viva-voce.
- (vii) The suitable split up of marks can be designed to evaluate each student's performance and learning ability.
- (viii) The test marks out of 100 shall be scaled down to 20 marks (40% of the maximum marks).

The Sum of scaled-down marks scored in the report write-up/journal and marks of the test shall be the total CIE marks scored by the student.

- b) Internal tests for laboratory courses with software experiments shall be conducted for a total of 100 marks.

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

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

2) SEE for Practical Work Courses

- 1) The SEE marks for the practical courses shall be 50 Marks.
- 2) SEE shall be conducted jointly by the two examiners of the same institute



appointed by the University.

- 3) All laboratory experiments are to be included for practical examination.
- 4) Breakup of marks and the instructions printed on the cover page of the answer script are to be strictly adhered to by the examiners. **OR**
Based on the course requirement, a split-up of marks for evaluation shall be decided jointly by the examiners.
- 5) Students shall pick one question (experiment) from the questions pool prepared by the examiners jointly.
- 6) Evaluation of write-up/ conduction procedure and result/viva will be conducted jointly by the examiners.
- 7) The split-up of maximum allocated marks for SEE are:
 - (i) procedure/ writeup- 20%,
 - (ii) Conduction and result in 60%,
 - (iii) Viva-voce 20%
- 8) SEE for the practical course shall be evaluated for 100 marks and scored marks shall be scaled down to 50 marks.
- 9) Change of experiment is allowed only once and 20% Marks allotted to the procedure/write-up part to be made zero (Evaluation is to be carried out for 80% of total maximum marks).
- 10) The duration of SEE shall be three hours.

220B 4.4.4. Internship

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

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

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

- 2) **Report evaluation:** Internship shall be evaluated for 50% maximum marks. The



split-up of marks suggested for report evaluation shall be based on,

- a) Report formatting (20% of marks of CIE for report)
- b) Presentation of the outcomes in the report (40% of marks for CIE for report) and
- c) Technical content of the report (40% of marks for CIE for report)

Weightage shall be given for paper publication in reputed journals/refereed journals/ Conferences/Product developed/ Patent filed – only for Industry/Research Internship.

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

- a) For demonstration of (soft) skills/Engineering Knowledge gained (50% of marks of CIE for Viva-voce).
- b) The question-answer session will check for the understanding of the fundamentals and concepts (40% of CIE marks for Viva-voce)
- c) Clarity in answering the questions (10% of CIE marks for Viva-voce)

Viva-voce shall be conducted by the Mentor/ Guide and Head of the department /one of the senior faculty assigned by the Head of the department.

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

220B 4.4.5. Seminar

- 1) The maximum marks prescribed for the Seminar and the evaluation process shall be notified by the University/ College before offering the course.
- 2) The Seminar performance evaluation shall be a part of CIE only in a course where required.
- 3) The Seminar shall be assessed as indicated below.
 - a) The Head of the Department shall make arrangements for the conduct of seminars through a committee of faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award the CIE marks for the seminar. The committee shall consist of three senior faculty members of the Department and the most senior among them



shall be the Chairperson.

- b) The marks awarded for Seminar shall be based on the evaluation of the Seminar Report, Presentation skill, and Viva-voce (Question & Answer session) in the ratio of 50:25:25.
- c) Split up Marks to be assessed as follows:
 - (i) Report marks to be allotted by the seminar guide/s (50% of the maximum marks)
 - A). Formatting of the report (10% of maximum marks)
 - B). Literature survey (20% of maximum Marks) and
 - C). Technical content of the report (20% of maximum marks)
 - (ii) Seminar Presentation skill marks to be allotted by the committee: (25% of the maximum marks)
 - (iii) Viva-Voce marks to be allotted by the committee: (25% of the maximum marks)
 - A). Understanding of fundamentals and concepts (15%)
 - B). Clarity in answering the questions (10%)

220B 4.4.6. Mini-Project

- 1) The Mini-Project performance of a student shall be evaluated under CIE only. The maximum marks prescribed for CIE shall be as mentioned in the Scheme of Teaching and Evaluation.
- 2) The Head of the Department shall make arrangements for the conduct of viva-voce evaluation of the mini-project. The committee shall consist of a Faculty guide/mentor and two senior faculty members of the Department and the most senior among them shall be the Chairperson.
- 3) The CIE marks awarded for Mini-Project, shall be based on the evaluation of the Mini-Project Report, Project Presentation skill, and Viva-Voce (Question and Answer session) in the ratio of 50:25:25.
- 4) The marks awarded for the Mini-Project report shall be the same for all the students of the batch. The faculty guide/mentor guiding the Mini-project shall Evaluate the performance for 50% of the maximum marks of CIE for the report.
- 5) This committee shall evaluate Mini-project Work for the rest of 50% of the



maximum marks considering performance in project presentation and Viva-Voce (question-answer session).

- a) Project presentation: 25% of maximum marks
- b) Viva-Voce (Question and answer session) :25% of maximum marks

220B 4.4.7. Project Work

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

220B 4.5. SEE Assessment in Specific Courses:

220B 4.5.1. Theory Course with 4, 3 and 2 Credits

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

- 1) The question paper will have ten questions. Each question is set for 20 marks. The medium of the question paper shall be ENGLISH unless otherwise it is mentioned.
- 2) There will be 2 questions from each module. Each of the two questions under



a module (with a maximum of 3 sub-questions), should have a mix of topics under that module.

- 3) The students have to answer 5 full questions, selecting one full question from each module.
- 4) Marks scored will be proportionally scaled down to 50 marks.

220B 4.5.2. Integrated Course (I/c) /Integrated Professional Core Courses (IPCC)

For a course where theory is integrated with Laboratory course, the SEE duration for the theory part shall be three hours, as specified in section **220B 4.5.1**. However, the question paper in the SEE examination shall include at least one question from the Laboratory component.

220B 4.5.3. Theory Course with 1 Credit

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

220B 4.5.6. Practical Work Courses

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

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

- 5) Students shall pick one question (experiment) from the questions pool prepared by the examiners jointly.
- 6) Evaluation of write-up/ conduction procedure and result/viva will be conducted jointly by the examiners.
- 7) The split-up of maximum allocated marks for SEE are:
 - a) procedure/ writeup- 20%,
 - b) Conduction and result in 60%,
 - c) Viva-voce 20%

- 8) SEE for the practical course shall be evaluated for 100 marks and scored marks



shall be scaled down to 50 marks.

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

22OB 4.5.7. Internship

- 1) SEE shall be conducted by the Internal and external examiners approved by the University. The internal examiner shall be the guide for SEE. The external Guide for the Internship shall be the external examiner for SEE.
- 2) Examination for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks.
- 3) In case the external Guide expresses his inability to conduct the Examination at the last moment, the Principal /Chief Superintendent appointed by the University for the concerned examination of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide.
- 4) Split up of marks for evaluation may be the same as suggested for CIE or Internal and external examiners shall devise split up of marks for SEE and the same may be submitted to the University along with evaluation marks.

22OB 4.5.8. Project Work

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

22OB 4.6. Maintenance of Examination Records

- 1) The candidate shall write tests, assignments/unit-tests /written quizzes in Blue Books, which shall be preserved by the Principal/ Head of the Department



- for at least 3 years after the announcement of University results and shall be made available for verification as per the direction of the Registrar (Evaluation).
- 2) Any corrections or overwriting of CIE marks on the blue book/drawingsheet laboratory record etc., where CIE marks are awarded, shall bear the signature(s) of the concerned Teacher(s) and the Head of the Department.
 - 3) CIE marks shall reach the University before the commencement of examinations as per the notification from the office of the Registrar (Evaluation) from time to time. After submission of CIE marks to the University, any request under any circumstances for a change of CIE marks shall not be considered.
 - 4) Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any course/s, shall not be eligible for the SEE, conducted by the University and they shall be considered as fail in that Course /those Courses and marked as NE in the grade cards against this course/s. However, they can appear for University examinations conducted for other Courses of the same semester and backlog course/s if any.
 - 5) Students who have satisfied the attendance requirement but not the CIE requirements can be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course(s) when offered during the next immediate semester/s or later.
 - 6) Each appearance to SEE or absence after completing CIE and attendance requirements to complete a course shall be treated as an attempt.
 - 7) The student shall be permitted to register for total courses not exceeding 30 credits. These 30 credits include the courses of the regular semester and backlogs. The registration of these additional credits includes the courses with a shortage of attendance and the courses with unfulfilled CIE requirements. A student has to pay the prescribed fee as notified by the University from time to time.
 - 8) CIE marks of those students, who come under 220B4.6(4) and (5), shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.
 - 9) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Technical Seminar/ Mini – Project



Work/Major-Project Work shall be displayed on the notice board of the college much before the closure of the semester.

- 10) The college/institution shall enter the CIE marks of each semester in the format of the University's online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hard copy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department, and Principal.

220B4.7. Review Committee for CIE

- 1) Review of assessment is an organized procedure that ensures the use of valid assessment methods and consistent application of criteria, to provide fair academic judgment and reliable outcomes in the form of marks or grades. It assures appropriate designing and implementation of assessment activities along with the generation of valid and reliable results.
- 2) There shall be a reviewing Committee for Internal Assessments in every Department, which shall be chaired by the Head of Department and two senior faculty members to be nominated by the Principal. This Committee shall be responsible for the entire process of Internal Assessment in the Department, including redressal of grievances if any.
- 3) **Guideline for the Review Committee:**

Review may be conducted after each test or after the tests in case there is a large number of fail grades or higher letter grades, or when large numbers of students who have received the same grade or clustering of students on letter grades, or when there are discrepancies between marks allocated to individual students in different courses,

 - a) Split-up of marks used for each of the different types of assessment in the course to be checked
 - b) Checking of the questions whether it maps with course outcomes.
 - c) Checking of the level of difficulty of questions paper i.e. is difficulty level on the extremes, very easy or otherwise.
 - d) Whether the assessment modes are used to cover the entire syllabus or not.



- e) Checking the manner of awarding the marks, i.e. has correction been at the extremes, liberal or tough?
- f) Moderation should not be restricted to just assessment but also includes the assessment design (scheme of evaluation).
- g) Each college has to submit the moderation committee report to Registrar(Evaluation) along with the CIE marks.

22OB4.8. Rejection of Result

- 1) A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in university examinations(SEE) of a semester. The rejection is permitted only once during the entire Program of study.
- 2) Students who desire to reject the SEE results of a semester shall reject the total performance(irrespective of the earned Course grades) in all the Courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of the VIII semester project shall not be permitted.
- 3) Students who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s. They shall also be governed by readmission and Maximum duration clauses.
 - a) If the rejection of SEE results excluding CIE marks is of the odd semester, students shall be allowed to take admission to the immediate next even semester.
 - b) If the rejection of SEE results excluding CIE marks is of an even semester, then students shall be allowed to take admission to the next odd semester.
 - c) Readmission to odd/even semesters shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Program shall be counted with reference to the University Seat Number (USN).
 - d) Applications for rejection of results excluding CIE and approval to reappear for University examinations shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results, with prescribed fee as notified by the university from time to time. Late



submission of applications shall not be accepted for any reason.

- e) Application for rejection of results including CIE and approval for readmission shall be sent to the Registrar through the Principal of the College within 30 days from the date of the announcement of the results with prescribed fee as notified by the university from time to time. Late submission of application shall not be accepted for any reason.

- 4) Registration for SEE is compulsory if the student/s has satisfied the attendance and CIE requirement of ODD /EVEN semester.

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

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

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

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

22OB4.9. Academic Malpractice

Academic malpractices shall be seriously viewed, and appropriate action taken. In case of malpractice during any of the examinations like assignments, quizzes, tests, and SEE, the Course Teacher/Invigilator shall report the matter to the Principal/ Dean. If the Principal/ Dean finds that the offence is serious enough or the candidate appeals in writing to the University, then the matter shall be further referred to the Academic Malpractice Committee of the University.

22OB5.0. MAXIMUM DURATION FOR PROGRAMME COMPLETION

22OB5.1:Multiple-Entry-Multiple-Exit Options



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

The following distinctions are awarded under MEME options:

1) Certificate in Respective Programmes of Engineering

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

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

2) B.Sc. in Respective Programmes of Engineering

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

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

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

3) Re-entry to complete the programme

A student exiting with a certificate or B.Sc. should be entitled to re-enrol in the programme. All the credits will be transferred, if the student enrolls back within a limited period of 3 years of exiting. In case a student enrolls after that, then the transfer of credits should be examined by looking at the change in the curriculum from what the student did. Exits are permitted by the University within 15 days of announcement of II year and III year University results, on written request for the award of certificate and B.Sc. degree by a student when he/she is eligible. Corresponding to these two exits, a maximum of two re-entries are permitted with the



condition that he/she complete the programme within the maximum specified duration.

4) Completion Possibility in other Institutions.

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

220B5.2. Minimum and Maximum Duration for Programme Completion

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

220B5.3. Readmission

- 1) Students who are temporarily discontinuing the program and getting readmitted or rejoin to the eligible semester are subject to a maximum duration of eight (for Regular students) / six (for lateral Entry students) years as applicable.
- 2) The permission for readmission is only on request through the principal and is not treated as a matter of right. Such students shall not claim any benefits based on the readmission.
- 3) Students who take re-admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the program adhering to the regulations of the prevailing scheme and shall complete additional Course/s, if any, as per the decision of equivalence committee in concurrence with concerned Board of Studies on establishing the equivalence between two schemes. Such a candidate shall not be eligible for the award of rank.
- 4) Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted at the time of admission to the program. The maximum duration of the Program shall be counted with reference to the USN (University Seat Number) allotted during admission to the program.
- 5) A student who has not obtained the eligibility for III semester even after three



academic years from the date of admission to I semester shall discontinue the Programme or get readmitted to I semester of first year B.E./B.Tech., with a new University SeatNumber(USN) but retaining the same year of admission.

- 6) The candidates who have temporarily discontinued the Program of study or changed the scheme of study from one to another because of various reasons or transferred with credits from the autonomous college of the University/other University to non-autonomous constituent/affiliated college of the University, shall be eligible for the award of degree provided the credits earned at that stage are equal to or greater than the credits decided by the University in the individual cases.
- 7) In case, the forecasted or estimated credits are going to be less than that of the credits prescribed by the University on the completion of all the semesters of the program under the prevailing scheme, the candidate shall register for a course or courses not studied earlier and make up the credits which are equal to or greater than the University prescribed credits.
- 8) In case of any difficulty, Vice-Chancellor shall decide on individual cases, which shall be final.

22OB6.0. GRADING AND VERTICAL PROGRESSION

22OB6.1. Award of Grades:

- 1) The University adopts absolute grading system wherein the marks are converted to grades, and every semester result will be declared with semester grade point average (SGPA) on successful completion of all courses of that semester.

| Letter Grade and corresponding Grade Points on a typical 10 – Point scale | | | | | | | | |
|---|-------------|-----------|-----------|------|---------------|---------|------|------|
| Letter Grade | O | A+ | A | B+ | B | C | P | F |
| | Outstanding | Excellent | Very Good | Good | Above Average | Average | Pass | Fail |
| Grade Point | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 0 |



| % of Marks Secured | 90-100 | 80-89 | 70-79 | 60-69 | 55-59 | 50-54 | 40-49 | 0-39 |
|--------------------|--------|-------|-------|-------|-------|-------|-------|------|
|--------------------|--------|-------|-------|-------|-------|-------|-------|------|

- 2) The total marks obtained by the student in CIE and SEE of a course is expressed as a percentage to compute the grade points and the letter grade is awarded as indicated in the table below:
- 3) If there is no SEE for a course, then the CIE marks alone will be the basis for the determination of letter grade.

22OB6.2. Other Letter Grades:

The letter grades specified in 22OB 6.1 are used as student performance measures in all kinds of assessments. However, the following letter grades are also awarded under the circumstances defined below (Letter Grade: Grade Point - Circumstances).

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

22OB 6.3. Passing Standards

1) Maximum and Minimum CIE Marks:

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

2) Maximum and Minimum SEE Marks:

The maximum weightage of SEE marks shall be 50 and marks to be secured for



passing shall be 35 % of the maximum marks of SEE.

3) Eligibility for Passing a Course:

The overall passing marks shall be 40% of the maximum marks (the sum of the CIE and SEE should be 40% of the maximum marks) of the course. That is, Minimum passing grade in a course (head of passing) shall be "E".

4) Semester Passing Standards:

- a) A student shall be declared successful or 'passed' in the entire Undergraduate Programme, only when he secures a Grade Point of 4 ("E" Grade) or above in every registered Course in each Semester during the entire programme for the Degree Award, as required.
- b) A Student shall be declared successful or 'passed' in any Non-Credit Course if he secures a 'Satisfactory Grade (PP)' for that Mandatory Course.

220B 6.4. Vertical Progression

- 1) All the below clauses are subject to a maximum duration of eight years (six years for Lateral Entry Students) of the programme.
- 2) A theory, standalone practical or Theory with practical shall be treated as a head of passing.
- 3) The Non-credit Mandatory courses (NMCs) shall not be considered for the eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in these courses is mandatory before the completion of Degree.
- 4) There shall be no restriction for promotion to 2nd semester from 1st semester.
- 5) Third semester onwards, a student is permitted to register for higher semester/level courses
- 6) In the case of students admitted to the first semester (First year):
 - a) Students shall fulfill the attendance and CIE requirements to appear for SEE of 1st year courses.
 - b) Students having F grades for the courses totaling to more than 16 credits (credits for theory and practical are to be treated separately for vertical progression) in the 1st and 2nd semesters of the first year of the programme shall not be eligible to move to the 3rd semester (Second year) of the programme. These courses include courses marked as NE.



- c) The students who fail to satisfy CIE and attendance requirements shall repeat the courses whenever offered next and become eligible for the 2nd year.
- d) **Obtaining CIE:** From the 3rd semester (Second year) onwards the student who obtains the required attendance for the course, but not the required CIE marks is allowed to move forward to the next semester. However, the student shall obtain the required CIE by registering to the course in the subsequent semester. Obtaining minimum CIE marks in a course registered is mandatory. It may also be noted that the student shall not be permitted to appear for SEE in such courses until he/she obtains the required CIE.
- e) **Carryover of backlog courses:** From 3rd semester onwards the students who obtain the required attendance & CIE in a course and appears for University examinations but fails (F Grade) is allowed to register for the next semester (odd /even) irrespective of a number of F grades. However, for the award of degree, the student has to pass in all courses as per applicable Scheme & Regulations and earn the prescribed number of credits within the permitted maximum duration of the Programme. It is mandatory for a student to pass all the courses of 1st and 2nd semesters as per the Scheme of Teaching and Evaluation to Register for the 7th semester (IV year).
- f) From the second year onwards there shall be no restriction for promotion from an even to next odd semester (or odd to next even semester) even if the student has not satisfied the attendance requirement in one or more courses (including bridge courses for lateral entry students) shall not be eligible to appear for the Semester End Examination (SEE) of that course(s). The student shall be required to repeat that course whenever offered next.
- g) **Permitted Maximum credits for Registration:**

The student shall be permitted to register for total courses not exceeding 30 credits. These 30 credits include the courses of the regular semester and backlogs. The registration of these additional credits includes the courses having a shortage of attendance and the courses whose CIE requirements are not fulfilled. A student has to pay the prescribed fee as notified by the University



from time to time.

h) Successive Failures and alternate course selection:

- (i) If a student fails in a course other than the professional core course even after four attempts, he may drop that course but shall choose an alternate course of his/her choice with the same number of credits from the pool of courses suggested by the concerned Board of Studies.
- (ii) The course so selected should not have been studied by the student or to be studied in future at higher semesters. The faculty advisor shall guide/advise the student in this regard.
- (iii) The college shall make arrangements for the registration and conduction of CIE for the alternate course selected.
- (iv) This provision is given only for two courses (one at a time) during the entire maximum duration of the programme.
- (v) This provision is optional; the student/s can continue registering for the same course without opting for a change of course.

220B6.5. Condition for Re-Registering a Course:

- 1) Students who do not pass the course as per Secion 220B 6.3(3) and awarded "F" Grade may Re-Register and improve their performance.
- 2) Such student, after passing the failed course in subsequent examination/s, will be awarded letter grade based on the marks he scores in the subsequent examination/s.

220B6.6. Computation of SGPA and CGPA:

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



number of credits of all the courses undergone by a student, i.e.,

$$SGPA = \sum (C_i \times G_i) / \sum C_i$$

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

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

$$CGPA = \sum (C_i \times S_i) / \sum C_i$$

Where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.

Finally, the SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards. An illustrative example to calculate SGPA and CGPA for one academic year is shown in **Annexure-I**.

22OB6.7. Conversions of CGPA into Percentage of marks and Class Equivalence

There is no formula for the conversion of CGPA into the percentage of marks.

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

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

Illustration for a CGPA of 8.20;

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

22OB6.8. Class Equivalence

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

- (i). First Class with Distinction (FCD) if $M \geq 70$
- (ii). First Class (FC) if $60 \leq M < 70$
- (iii). Second Class (SC) if $50 \leq M < 60$
- (iv). Pass Class (P) if $40 \leq M \leq 50$



22OB 6.9. Award of Grade Cards, Certificates and Transcripts:

- (1) **Grade Cards:** At the end of each semester, a Grade Card shall be issued to all the registered students of that semester, indicating the Course code, Title, Number of credits, Letter grade awarded, and Credits earned, for all the Courses as specified in the scheme of teaching and evaluation, along with total credits earned, SGPA, and CGPA as applicable. This may have F grades and other temporary grades awarded to the student.
- (2) **Grade Certificate:** The Grade Certificate, having the same format of Grade card but indicating the month and year of clearing a course, is issued to the student on demand only on clearing all the temporary grades specified in the Grade Card.
- (3) **Transcripts:** Transcript is the consolidated statement of a student's academic performance for all the semesters since joining the programme and is generally given to a student on successful completion of the programme along with the degree certificate.
- (4) For those students who have taken multiple attempts to clear a course, the transcript given on successful completion of the programme will only contain earned pass grade ('O' to 'E', AU and PP); the courses cleared subsequently will however be shown in the respective semester with Month and Year in which the student has finally cleared the course. The transcript will show only the overall CGPA based on all the courses taken by the student. Credits earned beyond the requirement for the award of the degree shall be shown as additional courses separately, indicating the grade earned by the student. Additional copies of the transcript can be obtained if needed, on request submitted along with payment of applicable fee.
- (5) Students who have not yet completed the programme can obtain an interim Transcript at the end of any semester, if needed, on request and upon payment of applicable fee. The interim Transcript includes failed courses, which have not been cleared at the time of issue.

22OB7.0. ELIGIBILITY FOR AWARD OF DEGREE, PRIZES, MEDALS, AND RANKS

22OB7.1. B.E./B.Tech. degree



- (a) Students shall be declared to have completed the Program of B.E./B.Tech. degree and is eligible for the award of degree provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and have earned the prescribed number of credits within the permitted maximum duration.
- (b) For the award of degree, completion of bridge courses, if any as applicable is compulsory.
- (c) Mandatory Earning of Activity points:

| Sl. No. | Student Category | Activity Points prescribed by AICTE |
|---------|---|-------------------------------------|
| 1 | Regular Students admitted to the 4 year Degree Programme | 100 |
| 2 | Students entering 4 year Degree Programme through lateral entry | 75 |
| 3 | Students transferred from other Universities. To the 5 th Semester | 50 |

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

- (i) AICTE Activity Points (non-credit) have no effect on SGPA/CGPA.
In case a student fails to earn the prescribed activity Points before the commencement of 8th semester examinations, the Eighth Semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth Semester Grade Card.
- (ii) The Guidelines and suggestive activities under Activity points are listed in Annexure -VII

220B7.2. B.E./B.Tech. (Honors) Degree

- (a) A student shall be declared to have completed the Program of B.E./B.Tech., degree and shall be eligible to get undergraduate B.E./B.Tech., degree with Honours,



provided,

- (i) the student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. 160 credits for I semester admitted students and 120 for III semester admitted students.
- (ii) has earned additional 18 or more credits through University-approved online courses.
- (iii) satisfied the Regulations Governing the Award of Honors at B.E./B.Tech. Degree Programs (refer the regulation uploaded on VTU web portal)

220B7.3. B.E./B.Tech. with Minor Degree

- a) A student shall be declared to have completed the Program of B.E./B.Tech. Degree and shall be eligible to get an undergraduate B.E./B.Tech. degree with minors, provided,
 - (i) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. 160 credits for the I semester admitted student and 120 for III semesters admitted student.
 - (ii) Has earned additional 18 or more credits through a University-approved online courses list submitted by the board of studies. For Guidelines refer to regulations governing the minor degree program uploaded on VTU web portal.

220B7.4. Award of Degree for an Extraordinary Student:

The University through college can offer a fast-track degree for an extraordinary student. The same is done by offering courses of his/ her choice to fulfill the requirement of the programme in three and half years.

However, the degree shall be awarded on completion of 04 years.

However, the course completion letter may be issued jointly by the University and the Institute immediately after completion of the programme, notwithstanding the minimum duration.

Aspirant students have to register with University through the Principal of the college at the 4th semester level, with the prescribed registration fees fixed by the University from time to time. Such students shall register for more credits other than regular



semester credits, along with 5th semester registration

The extraordinary student is one with a CGPA ≥ 9 in 2nd and 3rd semesters and continue to maintain the same in all the semesters. Otherwise, his/her registration shall stand canceled automatically. Aspirent students shall register with the university through the principal of the college at 4th semester level.

22OB7.5. Noncompliance Cases

(1) Noncompliance of Mini-project

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

(2) Noncompliance of Major-project

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

(3) Noncompliance of Internship

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

(4) Non compliance to earn credits in Honours and Minors

In case a student registers for minor or honours degree and is unable to complete all the required courses or earn the required credits within the maximum programme duration, he/she may withdraw from these additional degree programmes and request for the award of certificates for those courses passed by considering them as Value Added courses by the University

22OB7.6. Award of Prizes, Medals, and Ranks

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



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

Illustration:

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



when the first decimal place is greater than or equal to 5.

220B7.7. Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained a higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B, etc., shall be taken into account to decide the order of the rank.

220B8.0 Change of College: Transfer of students:

The Regulations Governing the Change of College shall be followed [Appendix-II].

220B9.0 Change of Branch:

The Regulations Governing the Change of Branch shall be followed [Appendix-III].

220B10.0 Miscellaneous

- 1) Guidelines for using Online content in courses at the University and Colleges [Appendix-IV].
- 2) The Regulations Governing the Academic Bank of Credits shall be followed [Appendix-V]

220B 11. Applicability and Power to Modify

- i) The regulations governing the degree of Bachelor of Engineering/ Technology of Visvesvaraya Technological University shall be binding on all concerned.
- ii) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address and removal of any difficulty.
- iii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.





Appendix - I

An illustrative example to calculate SGPA and CGPA for one academic year is given below:

| (a) SGPA and CGPA Calculations: An Illustrative Example for one academic year | | | | | | | | |
|---|----------------|---------|-----------|-------------------------|---------------------------|---|------|------|
| Semester (Odd :I, Even: II) | Course Code | Credits | Grade | Grade Points (GP) | Credit Points (CrP) | SGPA, CGPA | | |
| I | XX11 | 3 | B | 8 | 3x8=24 | $SGPA = \frac{101}{20}$ $= 5.05$ | | |
| I | XX12 | 3 | Absent(F) | 0 | 3x0=00 | | | |
| I | XX13 | 3 | A+ | 9 | 3x9=27 | | | |
| I | XX14 | 3 | F | 0 | 3x0=00 | | | |
| I | XX15 | 3 | B | 6 | 3x6=18 | | | |
| I | XX16 | 1 | C | 5 | 1x5=05 | | | |
| I | XX17 | 1 | A+ | 9 | 1x9=09 | | | |
| I | XX18 | 2 | B | 6 | 2x6=12 | | | |
| I | XX19 | 1 | B | 6 | 1x6 = 06 | | | |
| Total | | 20(14*) | Total | | 101 | | | |
| (14*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration. | | | | | | | | |
| II | XX21 | 3 | B+ | 7 | 3x7=21 | $SGPA = \frac{178}{26}$ $= 6.85$ | | |
| II | XX22 | 3 | A | 8 | 3x8=24 | | | |
| II | XX23 | 3 | B | 6 | 3x6=18 | | | |
| II | XX24 | 3 | C | 5 | 3x5=15 | | | |
| II | XX25 | 3 | A+ | 9 | 3x9=27 | | | |
| II | XX26 | 1 | F | 0 | 1x0=00 | $CGPA$ $= \frac{(101 + 178)}{39}$ $= \frac{279}{39} = 7.15$ | | |
| II | XX27 | 1 | A | 8 | 1x8=08 | | | |
| II | XX28 | 2 | A+ | 9 | 2x9=18 | | | |
| II | XX29 | 1 | A | 8 | 1x8=08 | | | |
| I semester | | | | | | | | |
| I | XX12 | 3 | B | 6 | 3x6=18 | | | |
| I | XX14 | 3 | B+ | 7 | 3x7=21 | | | |
| Total | | 26(25*) | Total | | 178 | | | |
| (25*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration. | | | | | | | | |
| (b) CGPA Calculation of the Program: An Illustrative Example | | | | | | | | |
| Semester | I | II | III | IV | V | VI | VII | VIII |
| Credits of the semester | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 16 |
| SGPA | 5.0 | 6.73 | 9.20 | 6.86 | 8.18 | 7.73 | 9.18 | 9.40 |
| ΣCrP | 100 | 175 | 220 | 165 | 204 | 185 | 184 | 169 |
| $CGPA = \frac{[100 + 175 + 220 + 165 + 204 + 185 + 184 + 169]}{160} = \frac{[1402]}{160} = 8.76$ | | | | | | | | |
| For Lateral Entry Students | | | | | | | | |
| $CGPA = \frac{[220 + 165 + 204 + 185 + 184 + 169]}{120} = \frac{[1127]}{120} = 9.39$ | | | | | | | | |



Visvesvaraya Technological University
(Award of Bachelor of Engineering/Technology Degree) Regulations, 2022



Appendix – II

The Regulations Governing the Change of College:

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



Appendix - III

The Regulations Governing the Change of Branch:

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



Appendix – IV

Guidelines for Using Online Content in Courses at the University and Colleges.

1.0. Background

A lot of online high-quality content is available today either free or at a low cost. Besides the Government supported NPTEL, there are companies who aggregate courses from several Universities (and even private commercial organizations) and offer them to students all over the world. There are other companies who offer courses designed and developed by them. Further, a lot of companies have online content available to students.

On the other hand, most of the Computer Science (and related) departments face serious shortage of faculty, particularly in areas where there is a significant demand in the industry.

So, on one hand, we have quality content available for free or low cost, and on the other hand, we don't have faculty to teach such courses. The natural solution is to find ways to use online content for the courses in the curriculum (with credits). This way, either a knowledgeable faculty can "teach" a much larger class, or a faculty member with inadequate background in the topic can still "teach" the course better than what he/she would have done without the support of such online content.

1.1. Issues

The online content has been around for several years. The regulatory bodies have also been encouraging use of such content (particularly, NPTEL). And yet, the online content has not been integrated with the curriculum in most colleges. The pandemic has allowed people to take a fresh look at online content and the mental barriers to using such content in the curriculum have been breached. At this time, it is felt that a lot of colleges would want to use this content. However, there are two primary academic issues that need to be addressed (besides logistics, financial, and HR issues). These are:

1. How do we decide what material to use? This has two sub-issues. One, what content would be equivalent to the content that is mentioned in our curriculum (course mapping). Note this is a challenge because there may not be a single module which covers all parts of the curriculum. So we may need to select more than one module. Two, given the plethora of content, which content is of reasonable quality.
2. How would a college do evaluation of students in order to assign marks/grades?



1.2. Modes of Learning

There are several ways of using the online content in the curriculum.

The simplest mode (Mode 1) is to use online content as additional reference material. In this mode, the normal teaching is anyway being done and the faculty is referring to online content in the same way he/she would refer to a book. This mode requires no change or suggestions and hence is outside the scope of this document.

The next mode (Mode 2) is the flipped classroom model where the students go through the online content (including writing programs, small quizzes, etc.), and the local faculty takes discussion sessions and does all the evaluation. This mode still requires a knowledgeable faculty member to be the course Teacher. However, given that we can now reduce the contact hours for the students and faculty, the same faculty can handle a much larger class (or multiple sections in case there is an upper limit on the size of the class).

The next mode (Mode 3) is that the students are studying only through the online mode and there is very little interaction with the faculty at the college. May be there can be some sessions once in a while, but mostly, the role of a local faculty is only to handle evaluation (exams, assignments, projects, etc.). This partially addresses the issue of lack of faculty in certain areas since the expertise required for handling evaluation is arguably lesser than the expertise required to teach the course.

The last mode (Mode 4) is where the online provider does everything, including evaluations. We don't need any faculty member at the college to offer this course. We only need to decide how to translate the evaluation done by an outsider to an equivalent grade/ mark on the college transcript.

The table below illustrate the four models in brief.

| S. No. | Model | Local Part | Online Part | Guidelines |
|--------|----------------|---------------------------------------|-------------------------------|--|
| 1 | Reference Mode | All lectures, home works, evaluations | Additional Reference material | No additional recommendations. This requires no additional details. |



| | | | | |
|---|--------------|----------------------------------|--|--|
| 2 | Flipped Mode | Discussion sessions, evaluations | Lectures, Home works, Quizzes, Project options | Requires local faculty with some knowledge in the subject area. Large sections/class sizes can be handled |
| 3 | Screen Mode | Evaluations | All lectures, Home works, Projects | Place reasonable limit on the number of credits that can be earned in this mode. Use in cases where there is faculty shortage in critical areas |
| 4 | Fully online | -- | All lectures, evaluations, Projects, Tests | Place reasonable limit on the number of credits that can be earned in this mode. Advised not to repeat this model for the same course more than two times. Local faculty also to register and go through the course. Official score/grade to be suitably added to the student transcript. |

1.3. Course Mapping

Each course in the curriculum has course outcomes and the content defined by the University. Typically, we may have some course outcomes which are important ones, and may be some outcome which is desirable or optional. Similarly, the curriculum may also define the rough duration of each topic. Sometimes the curriculum will also include the kind of projects or assignments that the student shall be asked to do in the course.

The key to course mapping is to realize that any two individuals defining a course will have some differences and we must be flexible to accept differences to some extent. The committee trying to do course mapping should have an understanding of what are the important components (in all three: outcomes, topics, and projects) and should ensure that the online content meets all the important requirements. But looking for identical course would be usually futile.

Also, what is noticed is that typical online courses are often available in smaller modules than a typical 4- credit course in our curriculum. And therefore, one may need to consider more than one online courses together to be equivalent to one course in the college. It may also be noted that just like some



small aspects of the course may not be present in the modules chosen, there may be some aspects of the online modules which were not part of the college course. This amount of flexibility should be acceptable to the college. Typically, if the online content covers 80% of the college course, it may be accepted.

While autonomous colleges and Universities do have this flexibility, the affiliated colleges may not have the flexibility of not teaching even 20% of the content. In case of affiliated colleges, one will have to either be stricter in course mapping, or find a way to cover the gaps through a local faculty or a visiting faculty. It is assumed that it is easier to find a visiting faculty for a small part of the course and hence it is still a useful mode.

It may also be noted here that for Core courses, the overlap needs to be significantly higher while for the elective courses, the overlap could be relaxed somewhat. It is because the core courses typically are pre-requisites for other courses. Also, core courses have been defined to be such because it is assumed that that content is more important for the graduates than what is taught in electives.

However, course mapping is still not an easy thing to do. It requires an understanding of important versus less important components, and quality of content among the plethora of options available. It may require someone to go through the content patiently.

And hence it is recommended that for courses recommended in the curriculum, a course mapping may be suggested for the benefit of colleges by the University.

1.4. Evaluation

In Modes 1, 2, and 3, the complete evaluation is local, and hence there is no issue. In Mode 4, we need to consider an external evaluation and use that internally. This is a challenge. There is a difference in how to handle this in a University versus an affiliating college. In a University, a simple way of handling this would be to assign a Pass/Fail grade to the student. In case of an affiliating college, where only the internal marks need to be forwarded to the University, one could consider the external evaluation since it impacts only 30% of the marks, and the University will anyway have its own exam of 70% marks.

There are other models like normalizing the external evaluation to the college's internal policy or average distribution of marks in other courses.

It is assumed that in Mode 4, there is a formal way of communicating performance of the student by the provider of the online courses since colleges and Universities will not accept screen shots, emails, etc.

1.5. Other Issues



- a) **Financial:** If there is a fee to be paid for online content, the college should have a policy on that. Typically, if the savings due to reduced faculty requirements are significant, then the fees for the online provider may be reimbursed by the college.
- b) **Teaching Load:** Faculty member supporting the course whether by taking a few discussion sessions (in Mode 2) or by evaluating the students (in Mode 3) is still putting in substantial effort in managing the course, and an appropriate credit should be given to the faculty member when his/her teaching load is computed.
- c) **Training the teacher:** When a course is being done in Mode 3, the local faculty member should also be expected to register for the course and go through the course (with load being appropriately counted). After a faculty member has gone through the course in two academic sessions, he/she would be well prepared to teach the course in the class in a much better way. Even if the course is being offered in Mode 4, there is no harm in asking a faculty member to register for the course and go through it. Some responsible person in the college would know the level of the course and what exactly students have done, and again, after two such sessions, the faculty member would be well prepared to teach the course. Hence this mode will also lead to better training of the teachers.
- d) **Limits on Credits:** The University recommends that there should be a limit on the number of credits students can earn through online courses. In case of Mode 4, where even the evaluation is done by the online course provider, the proposed limit is 8 credits only. As the technology for online exams or the processes for evaluation by online providers improve over a period of time, this limit may be increased. In case of Mode 3 where the content is delivered online but evaluation is local, the limit can be high. For Mode 3 and Mode 4 combined, the limit can be what the regulatory bodies like UGC have announced for online courses, which is currently 40% of the total credits. In Modes 1 and 2 where the online content is really the reference material, there is no need for any limit.

Another constraint the committee would want the colleges to consider is that in a sequence of courses in one stream of Computer Science, at least one course should be in class. For example, if we consider the sequence of systems courses – Operating Systems, Databases, Networks, Architecture, at least one course should be in class. This is to ensure that if there were some gaps in online courses, the faculty in the face to face class can try to cover that to some extent.

- e) **Faculty Incentive:** There is a need to provide some incentive to faculty members who would manage the course that is being taught in the online mode. If a course is being taught in Mode 2,



the load on the faculty is only marginally less than the load of teaching an in person course. So the full teaching load should be considered for the faculty. In Mode 3, the load is much less, and in Mode 4, the load is only that we are asking the faculty to also go through the course along with the students. In these two modes, the college may consider this as reduced load. However, their learning the course may be treated as equivalent to having done a Faculty Development Program when it comes to their appraisal and promotions.

- f) **Consideration in NBA Accreditation:** One of the prime reason why online courses haven't become popular with colleges is that they must recruit faculty with a certain faculty to student ratio for accreditation and ranking. And once they have recruited faculty, one would always want the faculty to teach and not keep them under-loaded. If one can consider online courses as equivalent to faculty strength while deciding faculty-to-student ratio, then colleges would be attracted to online courses. A typical faculty member teaches about 100 students in a semester (across 2-3 courses). If 100 students do a course in Mode 4, we may consider this as equivalent to having one additional full time equivalent (FTE) faculty member on the rolls of the college for that semester. Similarly, if 200 students do a course in Mode 3, we may consider this as equivalent to having one additional FTE faculty member for that semester.

g) *Online offering of AICTE Model Curriculum Courses by Experts*

It is known that a significant number of colleges do not have adequately qualified faculty to teach the courses in the model curriculum properly. This proposal tries to alleviate this challenge by utilizing our newly acquired comfort level with online education. Essentially, the suggestion is that AICTE incentivizes top faculty to offer the AICTE model courses online, and publishes a calendar of such courses well in advance, so colleges/HEIs can use them for teaching the AICTE curriculum.

The following would be the salient features of the proposed scheme.

1. All the identified core courses and later on some key electives of the AICTE curriculum may offered regularly (maybe every semester) with a predefined calendar enabling colleges to plan using them for their students.
2. For each course AICTE identifies through a process a set of "Distinguished National Technical Teachers" who are subject experts and who also have experience teaching the course at the undergraduate level.
3. These "Distinguished Teachers" are offered financial reward for offering one course online once every 2 to 3 years. The reward must be substantial to make it prestigious as well as attractive.



Suitable funding is also made available to the instructor for engaging TAs for help sessions as well as laboratory exercises.

4. AICTE can also recognize industry professionals in the panel of distinguished faculty as they can make these courses more interesting and industry oriented. They could teach jointly with academics appointed as Distinguished Teachers and handle certain components of the course. The Distinguished Teachers will be encouraged to actively invite guest faculty from industry and/or professional associations (e.g. ACM) to give lectures in these courses to make them more interesting and industry oriented.
5. There is a registration procedure for colleges (not individual students) to register for making this course available to their students. They should also commit to assigning an instructor for coordinating classes including infrastructure, conducting assessments, help in grading etc.
6. Colleges may be asked to pay a reasonable amount as registration charges so that the scheme is self-sustaining.
7. This will be an AICTE scheme for teaching its model curriculum courses by experts. It can be managed by AICTE directly, or it can offer it to other institutions/consortium to manage them. Any platform (e.g. NPTEL) can be used to deliver these courses.

This approach differs from the currently available online courses from NPTEL and other platforms substantially.

1. Syllabus for each course is the approved AICTE syllabus.
2. The courses would be available against a set calendar each semester making it possible for colleges to rely on them.
3. It empowers the college rather than individual students to make use of the online course in a “mixed” mode and thus addresses the deficiency of expertise in specific areas in that college.
4. With suitable incentive (both prestige and financial) top experts may be motivated to offer these courses.



Appendix – V:

The Regulations Governing the Academic Bank of Credits: (to be framed)



Definitions of Keywords

The following are the definitions/descriptions that have been followed for the different terms used in the Regulations of B.E./B.Tech. Programs:

- 1) **Program:** This is an educational program in a particular stream/ branch of Engineering/branch of specialization leading to the award of the Degree. It involves events/activities, comprising of lectures/tutorials/laboratory work/fieldwork/outreach activities/project work/vocational training/viva-voce/ seminars/ internship/assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of B.E./B. Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Electrical Engineering, and Textile Engineering, etc.
- 3) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with not less than 90 working days). The odd and even semesters shall be as per the University academic calendar.
- 4) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 5) **Course:** Usually referred to as subject and is a component of a Programme. All Courses need not carry the same weightage. The Courses should define learning objectives and learning outcomes. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ fieldwork/ outreach activities/project work/ vocational training/ viva-voce/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.
- 6) **Credit:** Refers to a unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork etc., per week.
- 7) **Audit Courses:** This means the Knowledge/ Skill enhancing Courses without the benefit of credit for a Course.
- 8) **Choice Based Credit System (CBCS):** Refers to customizing the Course work, through Core, Elective, and skill-based Ability Enhancement Courses to provide the necessary support for the students to achieve their goals.
- 9) **Course Registration:** Refers to formal registration of the Courses in the study in every semester (Credits and Audit) by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor, etc.) in the Institution to maintain the proper record.



- 10) Continuous Internal Evaluation (CIE):** Refers to the evaluation of students' performance in the learning process. CIE shall be by the Course Instructor and may include tests, homework, problem-solving, group discussion, quiz, mini-project, and seminar throughout the semester, with a weightage for the different components being fixed by the University.
- 11) Semester End Examinations Evaluation (SEE):** Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module.
- 12) Course Evaluation:** Means Continuous Internal Evaluation (CIE) and Semester End Examination Evaluation (SEE) with equal weightage for each course (CIE: SEE = 50:50). Course to be evaluated for 100 marks, irrespective of its Credits.
- 13) First Attempt:** Refers to a student who has completed attendance requirements and CIE requirements has become eligible to attend the SEE and has attended at least one head of passing. SEE, such attempt shall be considered as the first attempt.
- 14) Credit-Based System (CBS):** Refers to quantification of Course work (by credits and quantification of contact hours). Under CBS, the requirement for awarding a degree is prescribed in terms of the total number of credits to be earned by the students with pass grades in all the courses and obtaining a minimum CGPA of 5, completing NCMC courses, AICTE activity points.
- 15) Credit Representation:** Refers to the Credit Values for different academic activities considered, as per Table-1. Credits for the seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.
- 16) Non-Credit Mandatory Course (NCMC):** In the non-credit mandatory courses, students shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the Continuous Internal Evaluation (CIE). In case, any student fails to register for the said course/fails to secure the minimum 40% of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the student has to fulfill the requirements during subsequent semester/s to appear for CIE. These Courses shall not be considered for CGPA calculation and vertical progression; but completion of the courses shall be mandatory for the award of degree.
- 17) Universal Human Value Course:** The courses which teach: a holistic perspective based on self-exploration about themselves (human beings), family, society, and nature.



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Understanding (or developing clarity) of the harmony in the human being, family, society, and nature.

18) Calculation of Credits:

| Table 1: Credit Values | | | | |
|---|--|---|----------------------------|--------------------------|
| Theory/Lectures (L) (hours/week/Semester) | Tutorials (T) (hours/week/Semester) | Laboratory/ Practical (P) (hours/week/ Semester) | Credits (L:T:P) | Total Credits |
| 4 | 0 | 0 | 4:0:0 | 4 |
| 3 | 0 | 2 | 3:0:1 | 4 |
| 2 | 2 | 2 | 2:1:1 | 4 |
| 3 | 0 | 0 | 3:0:0 | 3 |
| 2 | 2 | 0 | 2:1:0 | 3 |
| 2 | 0 | 2 | 2:0:1 | 3 |
| 0 | 0 | 6 | 0:0:3 | 3 |
| 2 | 0 | 0 | 2:0:0 | 2 |
| 1 | 0 | 0 | 1:0:0 | 1 |
| 0 | 2 | 0 | 0:1:0 | 1 |
| 0 | 1 | 1 | 0:0.5:0.5 | 1 |
| 0 | 0 | 2 | 0:0:1 | 1 |
| NOTE: Activities like practical training, study tour, and participation in Guest lecturers do not carry Credits. | | | | |

19) Grading: Grade refers to a qualitative measure of performance of a student in each course, based on the percentage of marks secured in CIE and SEE put together. Grading is done by Absolute Grading. The rubrics attached to letter grades are as follows:

S – Outstanding, **A** – Excellent, **B** – Very Good, **C** – Good, **D** – Above Average, **E** – Average, and **F** – Fail.

It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E, and F.



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20) Grade Point (GP): Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

| Letter Grade and corresponding Grade Points on a typical 10 - Point scale | | | | | | | |
|---|----|----|----|----|----|----|----|
| Letter | S | A | B | C | D | E | F |
| Grade Point | 10 | 09 | 08 | 07 | 06 | 04 | 00 |

- 21) Passing Standards:** Refers to passing a Course only when GP is greater than or equal to 04.
- 22) Credit Point:** This is the product of GP and number of credits for a Course i.e.,
Credit points (CrP) = GP × Credits for the Course.
- 23) Semester Grade Point Average (SGPA):** Refers to the measure of academic performance of a student in a semester.
- 24) Cumulative Grade Point Average (CGPA):** This is a measure of the cumulative performance of a student at higher semester and is computed from the 2nd semester onwards.
- 25) Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester-end examination. The grade card will display the Program details (Course code, title, number of credits, grades secured, number of attempts and alternate subject taken in lieu of successive failure after 4 attempts) along with the SGPA of that semester and CGPA (except for the first semester) earned till that semester.
- 26) University:** Visvesvaraya Technological University (VTU), Belagavi.





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| | | |
|----------------|---|--|
| 210B1.0 | Title and Credits of the Program of Study. | |
| | 210B1.1 | The Program of study shall be called the degree of Bachelor of Engineering/Bachelor of Technology, abbreviated as B.E./B.Tech. |
| | 210B1.2 | <p>Prescribed Number of Credits for the Program</p> <p>(a) The total number of credits to be completed by students admitted to the first semester of 04 years B.E./B. Tech., program shall be 160.</p> <p>(b) The total number of credits to be completed by students admitted to the third semester of 04 years B.E./B. Tech., program under lateral entry scheme shall be 120.</p> <p>(c) A student shall be eligible to get an Undergraduate degree with Honours / Minors, if he/she earns additional 18 credits, as per VTU norms issued from time to time regarding the earning of additional credits [To be read along with Regulations Governing the Award of Honours / Minors in B.E./B. Tech., Degree Programs].</p> |
| | 210B1.3 | <p>(a) Definition of Credits:</p> <ol style="list-style-type: none"> 1-hour Lecture (L) per week per semester =1 Credit 2 hours Tutorial (T) per week per semester =1 Credit 2 hours Practical/Laboratory/Drawing (P) per week per semester =1 Credit. Four-credit theory courses shall be designed for a minimum of 50 hours of the Teaching-Learning process. Three-credit theory courses shall be designed for a minimum of 40 hours of the Teaching-Learning process. Two-credit theory courses shall be designed for a minimum of 25 hours of the Teaching-Learning process One credit theory course shall be designed for a minimum of 15 hours of the Teaching-Learning process |
| 210B2.0 | Academic Eligibility for admission | |
| | 210B2.1 | <p>Regular Engineering College Eligibility: For candidates who have Passed Second PUC or equivalent</p> <ol style="list-style-type: none"> As notified by the Government of Karnataka from time to time Those students, who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain an eligibility certificate for seeking admission to B.E./B. Tech. Degree Program from Visvesvaraya Technological University, Belagavi. |
| | 210B2.2 | Lateral Entry: Regular Engineering College Eligibility: For candidates who have Passed 3-year Diploma |



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| | |
|---------|---|
| | <p>I. As notified by the Government of Karnataka and/ or as notified by Karnataka Examinations Authority from time to time and in an allied branch of Engineering (as notified by the Government of Karnataka for admission to 3rd-semester B.E./B. Tech.)</p> <p>II. Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</p> |
| 210B2.3 | <p>Lateral Entry: Evening Engineering College (For Candidates who have Passed 3-year Diploma):</p> <p>Eligibility:</p> <p>I. As notified by the Government of Karnataka and/ or as notified by Karnataka Examinations Authority from time to time and in an allied branch of Engineering (as notified by the Government of Karnataka for admission to 3rd-semester B.E./B. Tech.)</p> <p>II. Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</p> <p>In addition to this, a candidate after passing the diploma must have a minimum of two years' full-time work experience as of 1st September of the year of admission, in a registered firm / Company / Industry / Educational Institution Government / Autonomous Organizations in an allied branch of Engineering / Technology, in which the candidates hold a diploma and in which admission is sought by him/her.</p> <p>Professional experience refers to the experience earned as an employee on regular basis in Government, Government Undertaking, Public Sector Undertaking, Corporation or Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or Government recognized Institutions as technical staff.</p> <p>Period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region, Chennai or by Government, Government Undertakings and Public Sector Undertakings.</p> <p>Note: In the case where the genuineness of the employment certificate is questionable, such candidates have to produce supporting documents specifying the registration details of the Industry / Company (e.g., SSI Registration) and or identity cards provided to them together with the latest</p> |



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| | | |
|----------------|--|---|
| | | salary certificate and provident fund certificate. However, the employer has to fill up the NOC duly signed by the organization/ company authority. |
| | 210B2.4 | Lateral Entry: Regular Engineering College Eligibility: For candidates who have passed B.Sc., Degree As notified by the Government of Karnataka and/ or as notified by Karnataka Examination Authority from time to time for admission 3 rd -semester B.E./B. Tech, programs |
| | 210B2.5 | Qualification earned from foreign countries: With regard to the qualification earned from foreign countries, an equivalence certificate from the University/ Association of Indian Universities is mandatory for admission to B.E./B. Tech. Programs. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University Equivalence Committee shall be final in establishing the eligibility of the student. |
| 210B3.0 | Minimum and Maximum Duration of the program | |
| | 210B3.1 | Minimum duration: For students admitted to the first semester of B.E./B. Tech., the minimum duration of the program shall be four academic years (divided into eight semesters). The actual Teaching and Learning days shall be for at least 90 working days in a semester. Maximum Duration: Students admitted to first-semester B.E./B. Tech. shall complete the program within eight academic years from the year of the first admission, failing which they will not be eligible for the award of degree. |
| | 210B3.2 | Minimum duration: For students admitted to the third semester of B.E./B. Tech., the minimum duration of the program shall be three academic years (divided into six semesters). The actual Teaching and Learning days shall be at least 90 working days in a semester. Maximum Duration: Students admitted to third semester B.E./ B. Tech., shall complete the program within six academic years from the year of the first admission, failing which they will not be eligible for the award of degree. |
| | 210B3.3 | Minimum duration: The Program (conducted during the evening) to which students are admitted to the third semester of B.E./B. Tech., Program under lateral entry scheme shall be of three academic year duration, divided into six semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester. Maximum Duration: Students admitted to third semester B.E./ B. Tech., shall complete the Program (conducted during the evening) within six |



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| | | academic years from the year of the first admission, failing which they will not be eligible for the award of degree. |
| | 21OB3.4 | The deficit contact hours of the Program, conducted on all working days shall be compensated by working on all Sundays (except on general holidays). |
| 21OB4.0 | Courses and course registration | |
| | 21OB4.1 | There shall be the following types of Courses: |
| | | (a) Humanities, Social Sciences, and Management Courses (HSMC): These are mandatory for all disciplines. |
| | | (b) Basic Science Courses (BSC): Physics, Chemistry, and Mathematics. These are mandatory for all disciplines. |
| | | (c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Civil/ Mechanical/ Computer Engineering, etc. These are mandatory for all disciplines. |
| | | (d) Professional Core Courses (PCC) – Core: Are the professional Core Courses, relevant to the chosen specialization/ branch. The core courses are to be compulsorily studied by students and it is mandatory to complete them to fulfill the requirements of a Program. |
| | | (e) Professional Elective Courses (PEC): Are professional Electives, relevant to the chosen specialization/branch and can be chosen from the pool of courses. It shall be supportive to the discipline providing extended scope/enabling exposure to some other discipline /domain and nurturing student proficiency skills |
| | | (f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/ or from emerging fields. Students of other departments will opt these courses subject to fulfilling of eligibility as stipulated by the Regulation. |
| | | (g) Integrated Professional Core Course (IPCC): It refers to Professional Theory Core Course Integrated with Practical of the same course. Credit for IPCC can be 04 considering L: T: P as 3:0:2 or L:T:P as 2:2:2. For an IPCC, the theory component shall be evaluated by both CIE and SEE, and the practical component is evaluated by CIE only (there shall be no semester-end examination (SEE) for the practical component). |
| | | (h) Project Work: Mini-project work and Major Project work carried out at the parent Institution or any recognized organization without affecting the regular class work. |
| | | (i) Seminar: Deliverable at the Institution under the supervision of a |



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| | | faculty coordinator. |
| | | (j) Internship (INT) : Preferably at an industry/ R and D organization/IT company /Government organization /any recognized organization of significant repute for a specified period as mentioned in Scheme of Teaching and Examinations. |
| | | (k) Non-Credit Mandatory Courses (NCMC) : These Courses are mandatory, without the benefit of a grade or credit, for students admitted to B.E./B. Tech. Program. A pass in each mandatory Course is required to qualify for the award of degree. |
| | | (l) Ability Enhancement Courses (AEC) : Ability Enhancement Courses are based upon the content that leads to Knowledge enhancement. |
| | | (m) Universal Human Values Courses (UHV) : The courses which teach: a holistic perspective based on self-exploration about themselves (human being), family, society, and nature. Understanding (or developing clarity) of the harmony in the human being, family, society, and nature. These are mandatory for all disciplines |
| | 21OB4.2 | Course Registration: In order to maintain a proper academic record of each student at the Institution, every student shall register for the Courses of a semester (Credit/Audit) under the supervision of a Faculty Advisor (also called Mentor, Counselor, etc.,) at the beginning of each semester. |
| | 21OB4.3 | The minimum number of students registered to any Elective Course offered by the Departments shall not be less than ten. However, the above condition shall not apply to Programs having a class strength of less than 10. In such cases, only one elective course shall be offered. If the strength of students who are opting for a particular elective is less than 5, the college must seek permission from the Registrar (Evaluation) within 15 days from the date of commencement of the semester as per the academic calendar of the University, if that elective is to be offered in that college. If more number of students are opting for the same elective, it shall be offered on a first come first serve basis, up to one division i.e. 60 students. If the department has the facility to offer the same elective for another division, it may do so else the students must opt for a different elective, depending on the strength of the division. |



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| | 21OB4.4 | A student shall exercise the option in respect of Elective Course/s and register for the same at the end of the previous semester. However, the student may be permitted to opt for a change of Elective Course/s within 15 days from the date of commencement of the semester as per the academic calendar of the University. |
| 21OB5.0 | Attendance Requirement | |
| | 21OB5.1 | Each semester shall be considered as a unit for the calculation of attendance. Candidates have to put in a minimum of attendance of 75% in each Course with a provision for condoning up to 5% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University / State / National / International level sports and cultural activities, seminars, workshops, paper presentation, etc., of significant value. The supporting documents for condoning the shortage of attendance shall be submitted through the office of the Principal along with the recommendations to the office of the Registrar (Evaluation). |
| | 21OB5.2 | <p>a) The basis for the calculation of attendance shall be the period prescribed by the University by its academic calendar of events and as notified by the Registrar.</p> <p>b) In case of late admissions, approved by competent authority (KEA/DTE/VTU), to I semester (for the regular scheme) and III semesters (for lateral entry scheme) of Engineering Program, the attendance shall be reckoned from the date of admission to the Program.</p> |
| | 21OB5.3 | The Course Instructor/ Mentor/ also College shall inform the students as well as their parents /guardians about the attendance status every month. Students who are facing a shortage of attendance shall be mentored to make up for the shortage. The principal shall also notify every month, the list of candidates who are falling short of required attendance. |
| | 21OB5.4 | A student who does not satisfy the attendance requirement in one or more Courses (including bridge courses for lateral entry students) shall not be eligible to appear for the Semester End Examinations (SEE) of that course(s). The candidate shall be required to repeat that course during the subsequent semester(s). |
| 21OB6.0 | Internship | |
| | 21OB6.1 | <p>Internship:</p> <p>The internship is an extended period of work experience undertaken by university/Institute students looking to supplement their degree with professional development. The students are allowed to prepare themselves for the workplace and develop practical skills as well as academic ones.</p> <p>The Internship shall be completed during the period specified in the Scheme</p> |



of Teaching and Examinations. There will be three internships:

Part A:

Summer Internship-I: All students admitted to engineering programs shall have to undergo a mandatory summer internship of **03 weeks** during the intervening vacation of II and III semesters. Summer Internship shall include Inter / Intra Institutional activities. University Viva-Voce examination (Presentation followed by question-answer session) shall be conducted during III semesters and the prescribed credit shall be included in III semester.

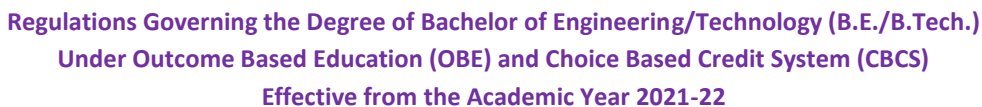
- 1) **Summer Internship-I (for Lateral Entry students):** All the students admitted to engineering programs under the lateral entry category shall have to undergo a mandatory **summer Internship-I** of **03 weeks** during the intervening vacation of III and IV semesters. Summer Internship shall include Inter / Intra Institutional activities. University Viva-voce examination shall be conducted during the IV semester examinations and the prescribed credit earned after successful completion of the course shall be included in the III semester grade card. The III semester grade card shall be issued only after passing the courses
- 2) **Summer Internship-II:** At the end of the **fourth** Semester **04 weeks** Summer Internship shall be carried out-based on industrial / Govt./NGO/MSME / Rural Internship/Innovation/Entrepreneurship. University Viva-voce examination (Presentation followed by question-answer session) shall be conducted during the V semester and the prescribed credit shall be included in the V semester grade card.
- 3) **Research / Industry Internship:** At the end of the sixth / Seventh semester (in two cycles to accommodate all the students of the University) Research/Industrial Internship shall be carried out – Based on industrial/ Govt./ NGO/ MSME/ Rural internship / Innovation / Entrepreneurship. All the students admitted shall have to undergo a mandatory internship of **24 weeks** during the vacation of VI / VII semesters. University Viva-Voce examination shall be conducted during VII / VIII semester and the prescribed credit shall be included in VII / VIII semester.

Research internship Students have to take up research internships at Centers of Excellence (CoE) / Study Centers established in the same institute and /or out of the institute at reputed research organizations / Institutes.



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| | <p>Industry internship: This is an extended period of work experience undertaken by University students looking to supplement their degree with professional development. The students are allowed to prepare themselves for the workplace and develop practical skills as well as academic ones.</p> <p>The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete it during subsequent University examination after satisfying the internship requirements. During subsequent semesters. (The faculty coordinator or mentor has to monitor the students' internship progress and interact to guide them for the successful completion of the internship.)</p> <p>Part B:</p> <ol style="list-style-type: none"> 1. The Department/college shall nominate staff member/s to facilitate, guide, and supervise students under internship. 2. The students shall report the progress of the internship to the Guide at regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship. 3. After the completion of the Internship, students shall submit a report with a completion certificate to the Head of the Department with the approval of internal Guides. 4. There shall be 50 marks for CIE and 50 marks for SEE. The minimum requirement of CIE and SEE marks shall be 50 % of the maximum marks. 5. The internal Guide shall be the internal examiner for the SEE. 6. The external Guide for the Internship shall be the external examiner for SEE. Examination for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks. 7. In case the external Guide expresses his/her inability to conduct the Examination, the Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide. 8. Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the Principal /Chief Superintendent of the respective institute shall appoint a senior faculty of the Department to conduct the Examination. 9. The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any financial assistance to any student for carrying out the Internship. |
| 210B7.0 | Technical Seminar |

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| 210B9.1b | <p>Theory Integrated with practical Courses (TIPC) (4 Credits)</p> <p>The CIE marks for the theory component of the TIPC shall be 30 marks and for the laboratory component 20 Marks.</p> <p>CIE for the theory component of TIPC</p> <p>Three Unit Tests each of 20 Marks (duration 01 hour)</p> <ul style="list-style-type: none">• First test at the end of 5th week of the semester• Second test at the end of the 10th week of the semester• Third test at the end of the 15th week of the semester <p>Two assignments each of 10 Marks</p> <ul style="list-style-type: none">• First assignment at the end of 4th week of the semester• Second assignment at the end of 9th week of the semester <p>CIE for the practical component of TIPC</p> <ul style="list-style-type: none">• On completion of every experiment/program in the laboratory, the students shall be evaluated and marks shall be awarded on the same day. The 15 marks are for conducting the experiment and preparation of the laboratory record, the other 05 marks shall be for the test conducted at the end of the semester.• The CIE marks awarded in the case of the Practical component shall be based on the continuous evaluation of the laboratory report. Each experiment report can be evaluated for 10 marks. Marks of all experiments' write-ups are added and scaled down to 15 marks.• The laboratory test (duration 03 hours) at the end of the 15th week of the semester /after completion of all the experiments (whichever is early) shall be conducted for 50 marks and scaled down to 05 marks. <p>Scaled-down marks of write-up evaluations and test added, this will be CIE marks for laboratory component of TIPC for 20 marks.</p> <ul style="list-style-type: none">• The minimum marks to be secured in CIE to appear for SEE shall be 15 in theory component and 10 in practical component. The laboratory component of the TIPC shall be for CIE only.• The theory component of the TIPC shall be for both CIE and SEE |
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| | | <ul style="list-style-type: none">In case, students satisfy the attendance requirement of both theory and laboratory components of the TIPC, but fail to secure the minimum CIE marks in any one of the two, such students shall not be permitted to appear for SEE of course. |
| | 210B9.1c | <p>Theory Course with 01 credit</p> <p>Three Unit Tests (preferably in MCQ pattern) each of 20 Marks (duration 01 hour)</p> <ol style="list-style-type: none">First test at the end of 5th week of the semesterSecond test at the end of the 10th week of the semesterThird test at the end of the 15th week of the semester <p>Two assignments each of 10 Marks</p> <ol style="list-style-type: none">First assignment at the end of 4th week of the semesterSecond assignment at the end of 9th week of the semester <p>Quiz / Group discussion / Seminar, any two of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)</p> <p>The sum of total marks of three tests, two assignments, and quiz / seminar / group discussion will be out of 100 marks and will be scaled down to 50 marks</p> |
| | 210B9.1d | <p>Theory Course with 02 credits</p> <p>CIE will same as 1 credits theory course for the 1st and 2nd semester, however for a higher semester depends upon the type of the course CIE may be non MCQ type or the same as other core theory courses.</p> <p>CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.</p> <p>At the beginning of the semester, only the teacher has to announce the methods of CIE for the course.</p> <p>The candidate shall write tests, assignments / unit-tests / written quizzes in Blue Books which shall be preserved by the Principal / Head of the Department for at least six months after the announcement of</p> |



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| | | University results and shall be made available for verification as per the direction of the Registrar (Evaluation). |
| | 210B9.2 210B9.2a | <p>Engineering Graphics / Drawing / Field Works:</p> <p>Engineering Graphics / Drawing / Engineering Visualization Course</p> <ol style="list-style-type: none"> 1. The CIE marks awarded in the case of Drawing shall be based on the weekly evaluation of class work (sketching and computer-aided drawing) each drawing will be evaluated for marks as mentioned module-wise in the syllabus. Marks for all the drawing sheets are added and scaled down to 30 marks. 2. One class test similar to SEE will be conducted after completion of the syllabus for 100 marks and scaled down to 20 marks. 3. CIE marks (out of 50) scored by the student is the sum of class work evaluation and test marks. <p>The CIE marks awarded for higher semester Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 80:20.</p> |
| | 210B9.2b | <p>Continuous Evaluation of Field Work</p> <p>Surveying Practice / Socio-Economics/ Marketing/traffic/ environmental survey</p> <p>CIE marks will be split into two components 80% of maximum marks (40 marks) are given for fieldwork report evaluation and 20% of maximum marks (10 marks) for internal assessment test evaluation.</p> <p>Fieldwork evaluation includes attendance, data collection through survey, use of data for design drawing, and report. The split-up of marks for the report will be decided by the faculty who is guiding them for the design drawing and report. The criteria for split-up of marks shall be done to achieve the learning outcome of the course. The report evaluation shall be carried out for 100 marks and scored marks shall be scaled down to 40 marks.</p> <p>The assessment shall be a presentation of the report followed by the viva-voce. This test will be conducted by the fieldwork project guide and fieldwork coordinator. If the fieldwork coordinator happens to be the same faculty then, HOD or HOD nominated senior faculty will conduct the test with the guide. A test similar to SEE will be conducted for 100 marks and marks scored by the student will be scaled down to 10 marks.</p> <p>The sum of the report and test marks will be total CIE marks for fieldwork.</p> |
| | 210B9.3 | Practical Courses: |



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| | | <p>CIE marks for the practical course is 50 Marks.</p> <p>The split-up of CIE marks for record/ journal and test are in the ratio 60:40.</p> <ul style="list-style-type: none"> Each experiment to be evaluated for conduction with observation sheet and record write-up. Rubrics for the evaluation of the journal/write-up for hardware/software experiments designed by the faculty who is handling the laboratory session and is made known to students at the beginning of the practical session. (However, rubrics to be followed and split up of marks for CIE is suggested in Annexure-I) Record should contain all the specified experiments in the syllabus and each experiment write-up will be evaluated for 10 marks. Total marks scored by the students are scaled down to 30 marks (60% of maximum marks). Weightage to be given for neatness and submission of record/write-up on time. Department shall conduct 02 tests for 100 marks, the first test shall be conducted after the 8th week of the semester and the second test shall be conducted after the 14th week of the semester. In each test, test write-up, conduction of experiment, acceptable result, and procedural knowledge will carry a weightage of 60% and the rest 40% for viva-voce. The suitable rubrics can be designed to evaluate each student's performance and learning ability (Split-up marks and Rubrics are suggested in Annexure-I). The average of 02 tests is scaled down to 20 marks (40% of the maximum marks). <p>The Sum of scaled-down marks scored in the report write-up/journal and average marks of two tests is the total CIE marks scored by the student.</p> <p><i>Internal tests for laboratory courses with software experiments will be conducted for 100 marks</i></p> <p><i>Observation, write-up of procedure/ Algorithm / program, and execution of experiment will be assessed for 80 marks and Viva-voce for 20 marks.</i></p> <p><i>Scored marks out of 100 is scaled down to 50 marks</i></p> |
| | 210B9.4 | <p>Internship:</p> <p>The Internship shall be completed during the period specified in the Scheme of Teaching and Examinations.</p> <p>The Department / College shall nominate staff member/s to facilitate,</p> |



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| | <p>Guide, and supervise students under an internship.</p> <p>The students shall report the progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship.</p> <p>Duration of Internships</p> <ul style="list-style-type: none">• Summer Internship-I 03 weeks• Summer Internship-II 04 weeks• Industry / Research Internship 24 weeks <p>CIE shall be carried out by the faculty mentor/ guide who is monitoring the progress of the internship of the student. Split up for CIE for report and viva-voce are in the ratio of 50:50</p> <p>Report evaluation is common for all three internships and is evaluated for 50% maximum marks – The rubrics suggested for report evaluation will be based on the</p> <ul style="list-style-type: none">• Report formatting, (20% of marks of CIE for report)• presentation of the outcomes in the report (40% of marks for CIE for report) and• Technical content of the report (40% of marks for CIE for report) <p><i>(weightage may be given for paper publication in reputed journal /refereed journal / Conferences / Product developed / Patent filed – only for Industry / Research Internship).</i></p> <p>Viva-Voce conducted for 50% of marks of CIE. The rubrics suggested are</p> <ul style="list-style-type: none">• For a demonstration of (soft) skills/Engineering Knowledge gained (50% of marks of CIE for Viva-voce).• The question-answer session will be checked for the understanding of the fundamentals and concepts (40% of CIE marks for Viva-voce)• Clarity in answering the questions (10% of CIE marks for Viva-voce) <p><i>Viva-voce will be conducted by the Mentor / guide and Head of the department /one of the senior faculty assigned by the head of the department</i></p> |
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| 210B9.5 | <p>Technical Seminar:</p> <p>The CIE marks awarded for Technical Seminar shall be based on the evaluation of the Seminar Report, Presentation skill, and Question and Answer session in the ratio of 50:25:25</p> <p>Technical Seminar is one of the heads of passing.</p> <p>Each candidate shall deliver a Technical seminar as per the Scheme of Teaching and Examinations on the topic chosen from the relevant field.</p> <p>The Head of the Department shall make arrangements for the conduct of seminars through concerned faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award the CIE marks for the seminar. The committee shall consist of two senior faculty members of the Department and the senior-most acting as the Chairperson.</p> <p>Rubrics (split up of Marks) suggested</p> <p>Report</p> <ul style="list-style-type: none">• Formatting of the report, (10 marks)• Literature survey (20 Marks) and• Technical content of the report (20 marks) <p>Presentation skill</p> <ul style="list-style-type: none">• Inference from the Literature survey (15 Marks)• quality of the preparation and presentation (10 marks) <p>Viva-Voce</p> <ul style="list-style-type: none">• Understanding of fundamentals and concepts (15 marks)• The clarity in answering the questions (10 Marks) |
| 210B9.6 | <p>Mini - Project:</p> <p>The CIE marks awarded for Mini - Project, shall be based on the evaluation of the Mini-Project Report, Project Presentation skill, and Question and Answer session in the ratio of 50:25:25. The marks awarded for the Mini-Project report shall be the same for all the batch mates.</p> <p>Marks allotted is 50 marks</p> <p>50% marks of CIE for the report will be evaluated by the faculty guide</p> |



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| | <p>/mentor who is guiding the mini-project.</p> <p>The Head of the Department shall make arrangements for the conduct of viva-voce evaluation of the mini-project. The committee shall consist of a guide/mentor and one senior faculty member of the Department</p> <p>Rubrics suggested as below-</p> <ul style="list-style-type: none"> • Abstract-synopsis write up Selection of the topic and relevance of the subject to concerned discipline Problem identification (25 marks) • Demonstration /presentation (10 marks) • Viva-Voce (15 Marks) <p>The marks awarded for the Mini-Project report shall be the same for all the batch mates.</p> |
| 210B9.7 | <p>Major Project Work:</p> <p>The maximum marks for the CIE are 100 marks.</p> <ul style="list-style-type: none"> • Marks to be awarded after evaluation in the ratio 50:25:25 for Report: Presentation skill: Question and Answer session. • Marks awarded for 'Report' shall be the same for all the batch mates. <p>50% marks of CIE for the report will be by the faculty guide / mentor who guides the mini-project.</p> <p>The Head of the Department shall make arrangements for the conduct of viva-voce evaluation of the major-project. The committee shall consist of a guide / mentor and one senior faculty member of the Department.</p> <p>Rubrics to be followed for evaluation is suggested in Annexure-II</p> <p>The marks awarded for the Project report shall be the same for all the batch mates.</p> |
| 210B9.8 | <p>The CIE marks in the case of Internship I and II / Research Internship/Industrial Internship /Technical Seminar/ Mini-Project and Major-Project Work shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of them shall be the Guide.</p> |



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| 210B9.9 | Maximum and Minimum CIE and SEE marks for passing |
| | <p>Maximum and Minimum CIE Marks:</p> <p>For all other theory Courses/Drawing courses of the Program, the maximum CIE marks shall be 50. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 20 marks.</p> <p>For Practical / Fieldwork / Mini-project / Summer Internship-I and II / the maximum CIE marks shall be 50. To appear for the SEE, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 25 marks.</p> <p>For Research Internship/ Industry Internship /Major Project the maximum CIE marks shall be 100. To appear the SEE, the minimum CIE marks to be secured shall be 50% of the maximum marks i.e., 50 marks.</p> <p>For the seminar maximum, CIE marks shall be 100, minimum passing marks is 50% of the maximum marks i.e., 50 marks.</p> <p>Maximum and Minimum SEE Marks:</p> <p>For all other theory Courses / drawing Courses of the Program, the maximum SEE marks shall be 50. The minimum SEE marks to be secured shall be 35 % of the maximum marks i.e., 18 marks and in total 40 % of the Course maximum marks i.e., the sum of the CIE and SEE marks prescribed for the Course.</p> <p>For Practical / Fieldwork / Summer Internship-I and II / the maximum SEE marks shall be 50, the minimum SEE marks to be secured shall be 35 % of the maximum marks i.e., 18 marks.</p> <p>For Research Internship / Industry Internship / Major Project the maximum SEE marks shall be 100, the minimum SEE marks to be secured shall be 35% of the maximum marks i.e., 35 marks.</p> <p>No SEE marks for Seminar and Mini-Project work.</p> |
| 210B9.9 | <p>Any corrections or overwriting of CIE marks on the blue book/drawing sheet shall bear the signature(s) of concerned Teacher(s) and in such cases, the Head of the Department shall indicate the number of corrections on every sheet at the footer margin of blue book/drawing sheet and attest it with the signature of concerned faculty and HoD.</p> |
| 210B9.10 | <p>CIE marks shall reach the University before the commencement of examinations as per the notification from the office of the Registrar</p> |



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| | | (Evaluation) from time to time. After the submission of CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered. |
| | 21OB9.11 | <ul style="list-style-type: none">i. Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any Course/s, shall not be eligible for the SEE conducted by the University and they shall be considered as fail in that Course /those Courses. However, they can appear for University examinations conducted for other Courses of the same semester and backlog Course/s if any.ii. Students who have satisfied the attendance requirement but not the CIE requirements shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course(s) when offered during subsequent semester/s.iii. Each appearance to SEE OR absence after completing CIE and attendance requirement to complete a course shall be treated as an attempt. |
| | 21OB9.12 | CIE marks of those students, who come under 21OB9.11(i) and (ii), shall also be sent to the Registrar (Evaluation) along with other course CIE Marks. |
| | 21OB9.13 | <ul style="list-style-type: none">i. The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory / Practical / Internship / Technical Seminar / Mini – Project / Major-Project shall be displayed on the notice board of the college much before the closure of the semester.ii. The college/institution shall enter the CIE marks of each semester in the format of the VTU online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department, and Principal. |
| | 21OB9.14 | <p>Moderation Committee for CIE;</p> <p>Moderation of assessment is an organized procedure that ensures the use of valid assessment methods and consistent application of criteria, to provide fair academic judgment and reliable outcomes in the form of marks or grades. It assures appropriate designing and implementation of assessment activities along with the generation of valid and reliable results.</p> <p>There shall be a Monitoring Committee for Internal Assessments in every Department, which shall be chaired by the Head of Department and two senior faculty members to be nominated by the Principal.</p> |



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| | | <p>This Committee shall be responsible for the entire process of Internal Assessment in the Department, including redressal of grievances, if any.</p> <p style="text-align: center;">OR</p> <p>Each department should establish a moderation committee consisting of the Head of the department and 01 or 02 senior faculty of the department.</p> <p><i>Following are the guideline for the moderation team-</i></p> <p>Moderation may be conducted in case there is a large number of fail grades or high grades, or when large numbers of students who have received the same grade or clustering of students on letter grades, or when there are discrepancies between marks allocated to individual students in different courses,</p> <ul style="list-style-type: none"> • Rubrics used for each of the different types of assessment in the course to be checked • Checking of the assessment whether it maps with learning outcomes. • Checking of the difficulty level of question paper i.e is difficulty level on the extremes, very easy or very hard. • Whether the assessment modes are used to cover the entire syllabus or not. • Checking the manner of awarding the marks, i.e has correction been at the extremes, liberal or tough. <p>Moderation should not be restricted to just assessment but also includes the assessment design.</p> |
| 210B10.0 | Semester End Examination (SEE) Marks and Passing standards | |
| | 210B10.1 | <p>a. University examination for all Courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50 marks to add the same with the CIE marks for the award of the letter grade.</p> <p>b. The University examinations for all the Programs of study shall be conducted at the end of each semester for all eight semesters.</p> <p>c. Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog</p> |



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| | | <p>course/s may face a situation where they may have</p> <ol style="list-style-type: none">1. Two examinations scheduled at the same time of the day,2. To take two examinations on the same day, one during the morning session and the other in the afternoon session, and3. Examinations on consecutive days. <p>d. As changing the examination dates is not an option, the examination timetable shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in the second and third cases, the students shall manage the examinations as per their decision.</p> <p>e. For all other theory Courses /drawing Courses of the Program, the maximum SEE marks shall be 50, the minimum SEE marks to be secured shall be 35 % of the maximum marks i.e., 18 marks and in total 40 % of the Course maximum marks i.e., the sum of the CIE and SEE marks prescribed for the Course.</p> <p>f. For Practical/Fieldwork/Mini-project/ Summer Internship-I and II / the maximum SEE marks shall be 50, the minimum SEE marks to be secured shall be 35 % of the maximum marks i.e., 18 marks.</p> <p>g. For Research Internship/ Industry Internship /Major Project the maximum SEE marks shall be 100, the minimum SEE marks to be secured shall be 35% of the maximum marks i.e., 35 marks.</p> <p>h. Students who satisfy the conditions (e), (f) and (g) above, and obtain any grade from S to E in a course shall be considered to have passed that course.</p> <p>i. A student shall be declared fail if he/she</p> <ul style="list-style-type: none">• (a) Fails to satisfy the conditions (h) above• (b) Absents himself/herself to the University examination.• (c) Is held guilty of examination malpractice and for any other reasons and declared the performance of any course/s as null and void by the competent authority.• (d) Attendance in any of the course(s) is less than the 75% <p>j. If a student secures an F grade in any of the Courses, he/she shall reappear for that Course(s) during the subsequent SEE. The CIE</p> |
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| | | marks awarded to the student at the first attempt in the concerned Course(s) shall be carried forward. Revised CIE marks are considered only in cases under the provision of 210B9.11 |
| | 210B10.1a | <p>SEE Details for different Courses</p> <p>Theory Course with 3 Credits</p> <p>Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (duration 03 hours)</p> <ol style="list-style-type: none"> 1. The question paper will have ten questions. Each question is set for 20 marks. 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), should have a mix of topics under that module. <p>The students have to answer 5 full questions, selecting one full question from each module.</p> |
| | 210B10.1b | <p>Theory Integrated with Practical Course (TIPC)</p> <p>SEE for the theory part (Duration 03 hours) is the same as that mentioned in serial no. 02 (questions mentioned in SEE paper shall include questions from the practical component).</p> |
| | 210B10.1c | <p>Theory Course with 1 Credit</p> <p>SEE paper will be set for 50 questions, each of 01 mark. The pattern of the question paper is MCQ. The time allotted for SEE is 01 hour</p> |
| | 210B10.1d | <p>Theory Course with 2 Credits</p> <p>SEE paper will be set for 100 questions each of 01 mark. The pattern of the question paper is MCQ. The time allotted for SEE is 90 minutes. Marks scored are scaled down to 50 Marks.</p> <p>The suggested question paper pattern is MCQ for the 1st and 2nd semester however, for higher semester/s SEE may be a written examination pattern similar to other theory course.</p> |
| | 210B10.1e | <p>Engineering Graphics and Drawing</p> <p>SEE shall be conducted and evaluated for maximum marks 100. Marks</p> |



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| | | <p>obtained shall be accounted for SEE final marks, reducing it by 50%</p> <ol style="list-style-type: none">1. Question paper shall be set jointly by both Internal and External Examiner and made available for each batch as per schedule.2. Evaluation shall be carried jointly by both the examiners. <p>Scheme of Evaluation: To be defined by the examiners jointly and the same shall be sent to the university along with question paper.</p> |
| | 21OB10.1f | <p>Field work</p> <p>SEE for fieldwork Conducted by the Internal and External examiners appointed by University.</p> <p>Report and design drawing evaluation and viva-voce are in the ratio 60:40. Fieldwork will be jointly evaluated by the Internal and External examiners. The duration of SEE is 03 hours.</p> |
| | 21OB10.1g | <p>Practical Course</p> <p>SEE marks for the practical course is 50 Marks.</p> <p>SEE shall be conducted jointly by the internal and external examiners appointed by the University</p> <ul style="list-style-type: none">• All laboratory experiments are to be included for practical examination.• (Rubrics) Breakup of marks and the instructions printed on the cover page of the answer script to be strictly adhered to by the examiners. OR based on the course requirement, evaluation rubrics shall be decided jointly by internal and external examiners.• Students can pick one question (experiment) from the questions lot prepared by the internal /external examiners jointly.• Evaluation of write-up/ conduction procedure and result/viva will be conducted jointly by Internal and external examiners.• General rubrics for SEE are mentioned here, procedure / writeup-20%, Conduction and result in -50%, Viva-voce 30% of maximum marks. SEE for practical shall be evaluated for 100 marks and scored marks shall be scaled down to 50 marks (however, based on course type, rubrics shall be decided by the examiners)• Change of experiment is allowed only once and 20% Marks allotted to the procedure/ writeup part to be made zero (Evaluation is to be carried out for 80% of total maximum marks). |



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| 21OB10.1h | <p>The duration of SEE is 03 hours.</p> <p>Internship</p> <p>SEE shall be conducted by the Internal and external examiners approved by the university.</p> <p>The internal Guide shall be the internal examiner for the SEE.</p> <p>The external Guide for Internship shall be the external examiner for SEE. Examination for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks.</p> <p>In case the external Guide expresses his inability to conduct the Examination, the Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide.</p> <p>Rubrics for evaluation may be the same as suggested for CIE or Internal and external examiners shall devise rubrics for SEE and same may be submitted to the University along with evaluation marks.</p> |
| 21OB10.1i | <p>Major project:</p> <p>Maximum SEE marks for the Major Project is 100 marks</p> <p>Will be conducted by the two examiners one internal and one external examiner appointed by University.</p> <p>SEE marks for the project shall be awarded based on the quality of report and presentation skill, participation in the question and answer session in the ratio 50:25:25 as per the University norms by the examiners appointed VTU.</p> <p>Rubrics to be followed are suggested in Annexure-II.</p> |
| 21OB10.2 | <p>The student will not be allowed to appear for the examination of the course in which he has already passed and cleared unless he/she opts for rejection of results of all courses of that semester.</p> <p>However, students who have a CGPA of less than 5 but pass in all subjects at the end of the academic Program, subject to the provision of maximum duration, shall be allowed to appear for only SEE of Course/s to make up for the deficiency in CGPA and become eligible for the award of the degree.</p> |



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| 21OB10.3 | A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examinations (SEE) of a semester. The rejection is permitted only once during the entire Program of study. |
| 21OB10.4 | <p>Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned Course grades) in all the Courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of the VIII semester project shall not be permitted.</p> <p>Students who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s. They shall also be governed by readmission and Maximum duration clauses.</p> <ul style="list-style-type: none">(i) If the rejection of SEE results excluding CIE marks is of the odd semester, students shall be allowed to take admission to the immediate next even semester.(ii) If the rejection of SEE results excluding CIE marks is of even semester, then students shall be allowed to take admission to the next odd semester.(iii) Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Program shall be counted with reference to the old University Seat Number.(iv) Applications for rejection and approval to reappear for University examinations shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reason.(v) Application for approval of readmission shall be sent to the Registrar through the Principal of the College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reason. |



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| | 21OB10.5 | Students who opt for rejection of results of University examination shall be eligible for the award of the degree and Honours / Minor Degree but not for the award of ranks. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21OB11.0 | Grading | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21OB11.1 | The University adopts an absolute grading system wherein the marks are converted to grades, and every semester results shall be declared in terms of Semester Grade Point Average (SGPA) considering all the courses that appeared in that Semester End Examinations including backlog course/s/arrear papers (refers to courses other than the current semester courses that have not yet been completed) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester, except for the first semester. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21OB11.2 | <p>The grading system with the letter grades and the assigned range of marks under the absolute grading system shall be as given below:</p> <table><tr><th>Level</th><th>Outstand ing</th><th>Excellent</th><th>Very Good</th><th>Good</th><th>Above Average</th><th>Average</th><th>Fail</th></tr><tr><td>Letter Grade</td><td>S</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr><tr><td>Grade Points</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>4</td><td>00</td></tr><tr><td>Percentage of Marks Scored in a Course</td><td>≥ 90</td><td><90 ≥80</td><td>< 80 ≥70</td><td>< 70 ≥60</td><td>< 60 ≥ 45</td><td>< 45 ≥35</td><td><35</td></tr><tr><td></td><td>(90 - 100)</td><td>(80 - 89)</td><td>(70 - 79)</td><td>(60 - 69)</td><td>(45 - 59)</td><td>(40 - 35)</td><td>(0 - 34)</td></tr></table> | Level | Outstand ing | Excellent | Very Good | Good | Above Average | Average | Fail | Letter Grade | S | A | B | C | D | E | F | Grade Points | 10 | 9 | 8 | 7 | 6 | 4 | 00 | Percentage of Marks Scored in a Course | ≥ 90 | <90 ≥80 | < 80 ≥70 | < 70 ≥60 | < 60 ≥ 45 | < 45 ≥35 | <35 | | (90 - 100) | (80 - 89) | (70 - 79) | (60 - 69) | (45 - 59) | (40 - 35) | (0 - 34) |
| Level | Outstand ing | Excellent | Very Good | Good | Above Average | Average | Fail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Letter Grade | S | A | B | C | D | E | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade Points | 10 | 9 | 8 | 7 | 6 | 4 | 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percentage of Marks Scored in a Course | ≥ 90 | <90 ≥80 | < 80 ≥70 | < 70 ≥60 | < 60 ≥ 45 | < 45 ≥35 | <35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (90 - 100) | (80 - 89) | (70 - 79) | (60 - 69) | (45 - 59) | (40 - 35) | (0 - 34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21OB11.3 | A student obtaining Grade F in a Course shall be considered to fail and is required to reappear in the subsequent SEE. Whatever the letter grade secured by the student during his /her reappearance shall be awarded. The number of attempts taken to clear Course/s shall be indicated in the grade card. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21OB12.0 | Computation of SGPA and CGPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21OB12.1 | <p>Computation of SGPA and CGPA</p> <p>The following expressions shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:</p> $SGPA = \frac{\sum [CourseCredits \times GradePoints] for all the Courses in that Semester}{\sum [CourseCredits] for all the Courses in that Semester}$ $CGPA = \frac{\sum [CourseCredits \times GradePoints] for all Courses excluding those with F grades until that Semester}{\sum [CourseCredits] for all Courses excluding those with F grades until that semester}$ <p>The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards.</p> <p>SGPA and CGPA calculation: An illustrative example for one academic year is shown in Annexure-III</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| | 21OB12.2 | <p>Conversions of CGPA into Percentage of marks and Class Equivalence</p> <p>The formula for the conversion of CGPA into the percentage of marks after completion of program (after obtaining eligibility for the award of degree) $\% \text{ of marks secured, } M = [\text{CGPA Earned} - 0.75] \times 10$</p> <p>Illustration for an earned CGPA after completion of program is 8.20: $M = [8.20 - 0.75] \times 10 = 74.5 \%$</p> |
| | 21OB12.3 | <p>Class Equivalence:</p> <p>Subsequent to the conversion of final CGPA, after successful completion of the Program, into the percentage of marks (M), a graduating student is reckoned to have passed in</p> <ul style="list-style-type: none"> (i). First Class with Distinction (FCD) if $M \geq 70$ (ii). First Class (FC) if $60 \leq M < 70$ (iii). Second Class (SC) if $50 \leq M < 60$ and (iv). Pass Class (PC) if $42.5 \leq M < 50$ |

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| 21OB13.0 | Vertical progression | |
| | 21OB13.1 | <p>All the below clauses are subject to maximum duration of eight (Regular Students) / six years (Lateral Entry Students) as applicable.</p> <ol style="list-style-type: none"> 1) There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement. 2) There shall be no restriction for promotion from an even semester to the next odd semester, provided the student has fulfilled the attendance requirement 3) Obtaining CIE: The student who obtains required attendance for the course, but not the required CIE marks is allowed to move forward to next semester. However, the student has to mandatorily obtain the required CIE whenever offered next. Obtaining minimum CIE marks for the course is mandatory. It may also be noted that the student shall not be permitted to appear for SEE in such courses until he / she obtains the required CIE. 4) Carryover of backlog courses: The student who obtains required attendance and CIE and appears for university examinations but fails (F Grade) to pass a course is allowed to move forward to next semester (odd /even) irrespective of number of F grades. However, for the award of degree the student has to pass in all courses as per applicable and prevailing scheme and regulations. This is subject to permitted maximum duration. However, the student will be given admission to 7th |



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| | | <p>semester provided he/she passes all courses of 1st and 2nd semesters.</p> <p>5) Students not satisfying attendance requirement shall take readmission vide 21OB5.4</p> <p>6) Successive Failures:</p> <p>a) If a student fails to pass a Course even after four attempts, that course is deemed to be exempted for him/her. Then, the student shall choose a course of his / her choice with equal credit from online (NPTEL course) or the pool of courses suggested by the concerned Board of Studies either from open elective / professional elective course groups. The course so selected should not have been studied by student or to be studied in higher semester/s. The faculty advisor shall guide/ advice the student in this regard.</p> <p>b) This provision is given only for one course during the entire duration of the program.</p> <p>c) This provision of course of his/her choice should reflect in the grade card of the respective semester.</p> <p>7) Readmission:</p> <p>a) Students who are temporarily discontinuing the program and getting readmitting/rejoining the eligible semester are subject to a maximum duration of eight (Regular) / six (lateral Entry) years as applicable.</p> <p>b) The permission for readmission is only on request through the Principal and is not treated as a matter of right. Such students will not claim any benefits based on the readmission.</p> <p>c) Students who take re-admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the Program adhering to the regulations of the prevailing scheme and shall complete additional Course/s, if any, as per the decision of equivalence committee in concurrence with concerned Board of Studies on establishing the equivalence between two schemes. Such a candidate shall not be eligible for the award of rank.</p> <p>d) Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Program shall be counted with reference to the old</p> |
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| | | USN (University Seat Number) | | | | | | | | | | | | |
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| | 210B13.2 | <p>1) The candidates who have temporarily discontinued the Program of study or changed the scheme of study from one to another because of various reasons or transferred with credits from the autonomous college of VTU /other University to non-autonomous constituent/affiliated college of VTU, shall be eligible for the award of degree provided the credits earned at that stage are equal to or greater than the credits decided by the University in the individual cases.</p> <p>2) In case, the credits earned is less than the credits decided by the University in the individual cases, after the completion of all the semesters of the Program under the prevailing scheme, the candidate shall register for a Course or courses not studied earlier and make up the credits earned equal to or greater than the required for the award of degree.</p> <p>3) If the earned Program credits are greater than the prescribed, the CGPA shall be proportionately reduced to the prescribed Program credits.</p> | | | | | | | | | | | | |
| 210B14.0 | Award of Degree | | | | | | | | | | | | | |
| | 210B14.1 | <p>B.E./B. Tech. degree</p> <p>(a) Students shall be declared to have completed the Program of B.E. / B. Tech. degree and is eligible for the award of degree provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and has earned the prescribed number of credits in the permitted maximum duration</p> <p>(b) For the award of degree, a CGPA ≥ 5.00 at the end of the Program shall be mandatory.</p> <p>(c) for the award of degree, completion of bridge courses, if any, as applicable is compulsory</p> <p>(d) Mandatory Earning of Activity points:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Students Category</th><th>Activity points prescribed by AICTE</th></tr> </thead> <tbody> <tr> <td>1</td><td>Regular students admitted to the 4 years Degree program</td><td>100</td></tr> <tr> <td>2</td><td>Students entering 4 years Degree program through lateral entry</td><td>75</td></tr> <tr> <td>3</td><td>Students transferred from other Universities to the fifth semester</td><td>50</td></tr> </tbody> </table> <p>The Activity Points earned shall be reflected on the student's eighth semester</p> | Sl. No. | Students Category | Activity points prescribed by AICTE | 1 | Regular students admitted to the 4 years Degree program | 100 | 2 | Students entering 4 years Degree program through lateral entry | 75 | 3 | Students transferred from other Universities to the fifth semester | 50 |
| Sl. No. | Students Category | Activity points prescribed by AICTE | | | | | | | | | | | | |
| 1 | Regular students admitted to the 4 years Degree program | 100 | | | | | | | | | | | | |
| 2 | Students entering 4 years Degree program through lateral entry | 75 | | | | | | | | | | | | |
| 3 | Students transferred from other Universities to the fifth semester | 50 | | | | | | | | | | | | |



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| | | <p>Grade Card.</p> <p>(ii) Activity Points (non-credit) have no effect on SGPA/CGPA</p> <p>In case a student fails to earn the prescribed activity Points before the commencement of 8th-semester examinations, the Eighth Semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth Semester Grade Card.</p> <p>ii) The Guidelines and suggestive activities under Activity points is listed in Annexure -VI</p> |
| | 210B14.2 | <p>B.E./B. Tech. (Honours) degree</p> <p>(a) A student shall be declared to have completed the Program of B.E./ B. Tech., degree and shall be eligible to get undergraduate B.E./B. Tech., degree with Honours, provided.</p> <p>(a.1) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. 160 credits for I semester admitted students and 120 for III semester lateral entry admitted student as per 210B14.1</p> <p>(a.2) Has earned additional 18 or more credits through University-approved online Courses.</p> <p>(a.3) Satisfied the Regulations Governing the Award of Honours at B.E./B. Tech. Degree Programs – Guidelines – Annexure-IV</p> |
| | 210B14.3 | <p>3. B.E./B. Tech. with Minor degree</p> <p>a) A student shall be declared to have completed the Program of B.E./ B. Tech. degree and shall be eligible to get undergraduate B.E./B. Tech., degree with minors, provided.</p> <p>(a.1) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. 160 credits for I semester admitted student and 120 for III semester lateral entry admitted student</p> <p>(a.2) Has earned additional 18 or more credits through University-approved online Courses. For Guidelines refer to Annexure-V</p> |
| | 210B14.4 | <p>Award of Degree for an Extraordinary Student:</p> <p>The University through college can offer a special fast-track degree for an extraordinary student. The same is done by offering courses of his / her choice to fulfill the requirement of the program in three and half years. However, the</p> |



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Effective from the Academic Year 2021-22**

| | | |
|--|-----------------|--|
| | | degree will be awarded on completion of 04 years. |
| | | The extraordinary student is one with a CGPA ≥ 9 in 2nd, 3rd and 4th semester |
| | 210B14.5 | <p>(1) Noncompliance of CGPA ≥ 5.00 at the end of the Program</p> <p>(A) Students who have completed all the courses of the Program but do not have a CGPA ≥ 5.00 at the end of the Program, shall not be eligible for the award of the degree.</p> <p>(B) In the cases of 210B14.5(A), students shall be permitted to appear again for SEE in course/s [other than Internship, Technical seminar, Project (Mini and Main), and Laboratories] of any Semester/s without the rejection of CIE marks for any number of times, subject to the provision of the maximum duration of the Program to make up the CGPA equal to or greater than 5.00 for the award of the Degree.</p> <p>(C) In case the student earns improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is ≥ 5.00, the students shall become eligible for the award of the degree. If CGPA < 5.00, the students shall follow the procedure laid down in 210B14.5(B).</p> <p>(D) In case the students earn improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in the other reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is ≥ 5.00, the student shall become eligible for the award of the degree. If CGPA < 5.00, the students shall follow the procedure laid down in 210B14.5(B).</p> <p>(E) In case the student earns improved grade/s in some courses and fails in the other reappeared course/s, the CGPA shall be calculated by considering the improved grade/s and the previously earned pass grade/s of the reappeared course/s in which the student has failed. If it is ≥ 5.00, the student shall become eligible for the award of the degree. If CGPA < 5.00, the student shall follow the procedure laid in 210B14.5(B).</p> <p>(F) In case the student fails (i.e., earns F grade) in all the reappeared course/s, pass grade/s of the course/s earned by the students before reappearance shall be retained. In such cases, the student shall follow the procedure laid in 210B14.5(B).</p> <p>(G) The student shall obtain written permission from the Registrar (Evaluation) to reappear in SEE to make up the CGPA equal to or greater than 5.00.</p> <p>(2) Noncompliance of Mini-project The mini-project shall be considered as a head of passing and shall be</p> |



**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
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| | | <p>considered for the award of degree. Those, who do not take up/complete the mini-project shall be declared to fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements.</p> <p>(3) Noncompliance of Major-project The Major-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the Major-project shall be declared to fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Major-project requirements.</p> <p>(4) Noncompliance of Internship All the students of B.E./B. Tech. shall have to undergo mandatory internship as per 21OB 6.1. University examination shall be conducted and the prescribed credits shall be included with the credits of respective semesters. The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the internship shall be declared to fail in that Course and shall have to complete the same during subsequent University examinations after satisfying the internship requirements.</p> |
| 21OB15.0 | Award of Prizes, Medals and Ranks | |
| | 21OB15.1 | For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such awards. |
| | 21OB15.2 | <p>1) For the award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester shall be considered.</p> <p>(2) The additional credits earned for the award of Honours / Minors degree shall not have any bearing for the Rank declaration.</p> <p>(3) A student shall be eligible for a rank at the time of award of the degree of Bachelor of Engineering/ Technology, provided that the student,</p> <ol style="list-style-type: none"> (i) Has passed all the Courses of I to VIII semester in the first attempt only in case of Candidates admitted to I year. (ii) Has passed all the Courses (including bridge courses) of III to VIII semester in the first attempt only in case of Candidates admitted under lateral entry scheme (Diploma and B.Sc.). Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance /temporarily discontinued and rejoined/readmittedetc. Has completed all the Courses/semesters of the same Scheme of Teaching and Examinations without any break/discontinuity. Has completed all the semesters (I to VIII for regular/III to VIII for |



**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
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| | | |
|-----------------|---|--|
| | | <p>lateral entry) in VTU constituent college or in any VTU affiliated non-autonomous college.</p> <p>e) Has not been transferred from any autonomous institution affiliated to VTU or from any other University.</p> <p>(4) The total number of ranks awarded shall be 10% of the total number of students who appeared in the VIII semester subject to a maximum of 10 ranks in a specialization.</p> <p>(5) For award of ranks in a specialization, a minimum of 10 students should have appeared in the VIII semester examination.</p> <p>Illustration:</p> <p>a) If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Program, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.</p> <p>b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 09.</p> <p>c) In the case of a fractional number of ranks, it is rounded to a higher integer only when the first decimal place is greater than or equal to 5.</p> |
| | 21OB15.3 | Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained a higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B, etc., shall be taken into account to decide the order of the rank. |
| 21OB16.0 | COC: Transfer of students: The Regulations Governing the Change of College shall be followed (Annexure-VII). | |
| 21OB17.0 | COB: The Regulations Governing the Change of Branch shall be followed (Annexure-VIII) | |
| | | |
| 21OB18.0 | Applicability and Power to Modify | |
| | 21OB18.1 | The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all concerned. |
| | 21OB18.2 | <p>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</p> <p>ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.</p> |



ANNEXURE-I

Split-up of Marks for evaluation of Practical for 50 CIE marks and 50 SEE marks.

Split-up of Marks for evaluation of Laboratory work:

- Laboratory in-charge faculties will follow rubrics given in Tables below which is set by the Department for evaluation of laboratory programs.
- In the case of Practical, the IA marks shall be based on the laboratory observation, records, Viva, and one/two practical tests.
- Continuous Evaluation in every lab session will be done with the format mentioned in the Table to evaluate the PO9 (Individual and teamwork) and PO10 (Communication).

Rubrics used for continuous Evaluation of **laboratory courses** with **hardware experiments**

| Record | | | Lab Internal Assessment | | |
|---|--------------------|---|---|--------------------|---------|
| <p>Split-up: 60% (30 Marks) of Maximum CIE marks (50M).</p> <p>Each experiment is to be evaluated for conduction with an observation sheet and record write-up (50 marks per experiment). The record should contain all the listed/specified experiments in the syllabus.</p> | | | <p>Split-up: 40% (20 Marks) of Maximum CIE marks (50M). One/Two tests of 10 Marks each. The department may conduct 01 or 02 tests and the average of the two tests may be considered if two tests are conducted. Each test of 50 marks is averaged to 10 marks in the final CIE.</p> <p>In each test, conduction of experiment and acceptable result with viva-voce will carry a weightage of 60% per experiment, with the rest 40% for procedural knowledge and regularity of the student.</p> | | |
| Rubrics per experiment | Marks distribution | Remarks | Rubrics | Marks distribution | Remarks |
| Circuit | 3 | Evaluation of Record write-up to include weightage for submission on time, neatness, etc. | Write-up | 10 | |
| Design | 3 | | Conduction | 25 | |
| Procedure | 4 | | Results & Viva | 15 | |
| Conduction | 10 | | | | |
| Viva | 10 | | | | |
| Record write-up | 20 | | Total Marks | 50 | |
| Total Marks | 50 | | | | |

Split-up of Marks used for continuous Evaluation of **laboratory courses** with **software experiments**

| Spilt up of Marks | Methodology / Process Steps per Experiment | Marks |
|-------------------|---|-------|
| #R1 | Observation, Write up of Procedure / Algorithm/ Program and Execution of experiment | 20 |
| #R2 | Viva – Voce (Questions & Answers on relevant Experiment /Topic) | 10 |
| #R3 | Record writing | 20 |
| | Total Marks for each experiment | 50 |
| #R4 | Internal Test | |
| | (i) Write-up of Procedure/Program/Algorithm | 10 |
| | (ii) Conduction/Execution | 25 |
| | (iii) Viva-Voce | 15 |
| | Total Marks | 50 |

ANNEXURE-II

Split-up of marks for evaluation of Project work for 100 CIE marks and 100 SEE marks (total 10 credits).

| Split up | Rubrics | | Marks |
|--|-----------------------------|--|-------|
| Report (50 Marks) | Content Development | Abstract/ Synopsis Write-up | 10 |
| | | Selection of Topic/ Relevance of the subject to concerned discipline | 5 |
| | | Problem Identification | 5 |
| | | Objectives and Methodology | 5 |
| | Problem-Oriented Exposition | Breadth of Literature Survey (Papers/Sites/Sources Surveyed) | 10 |
| | | Documentation/ Systematic Approach | 10 |
| | | Results (with inference, Conclusions, etc.) | 5 |
| Project Presentation Skill (25 Marks) | | Quality of preparation of presentation | 5 |
| | | Communication Skills | 5 |
| | | Technical knowledge and awareness | 5 |
| | | Individual involvement | 10 |
| Question and Answer Session (Viva- Voce) (25 Marks) | | Understanding of the fundamentals and concepts | 10 |
| | | The clarity in answering the questions | 5 |
| | | The understanding ability of the questions asked | 5 |
| | | Attitude towards the question asked | 5 |
| | | Total Marks | 100 |

AICTE Examination Reform Policy (2018) for RUBRICS to be followed for various evaluations enclosed

ANNEXURE-III

| (a) SGPA and CGPA Calculations: An Illustrative Example for one academic year | | | | | | | | |
|---|----------------|------------------|-----------|-------------------------|---------------------------|--|------|------|
| Semester (Odd :I, Even: II) | Course Code | Credits L:T:P | Grade | Grade Points (GP) | Credit Points (CrP) | SGPA, CGPA | | |
| I | XX11 | 2:2:0 = 3 | B | 8 | 3x8=24 | $SGPA = \frac{100}{20} = 5.00$ | | |
| I | XX12 | 2:2:0 = 3 | Absent(F) | 0 | 3x0=00 | | | |
| I | XX13 | 2:2:0 = 3 | A | 9 | 3x9=27 | | | |
| I | XX14 | 3:0:0 = 3 | F | 0 | 3x0=00 | | | |
| I | XX15 | 2:0:2 = 3 | D | 6 | 3x6=18 | | | |
| I | XX16 | 0:0:2 = 1 | E | 4 | 1x4=04 | | | |
| I | XX17 | 0:0:2 = 1 | A | 9 | 1x9=09 | | | |
| I | XX18 | 1:1:1 = 2 | D | 6 | 2x6=12 | | | |
| I | XX19 | 1:0:0 = 1 | D | 6 | 1x6 = 06 | | | |
| Total | | 20(14*) | Total | | 100 | | | |
| (14*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration. | | | | | | | | |
| II | XX21 | 2:2:0 = 3 | C | 7 | 3x7=21 | $SGPA = \frac{175}{26} = 6.73$ | | |
| II | XX22 | 2:2:0 = 3 | B | 8 | 3x8=24 | | | |
| II | XX23 | 2:2:0 = 3 | D | 6 | 3x6=18 | | | |
| II | XX24 | 2:2:0 = 3 | E | 4 | 3x4=12 | | | |
| II | XX25 | 2:0:2= 3 | A | 9 | 3x9=27 | | | |
| II | XX26 | 0:0:2=1 | F | 0 | 1x0=00 | $CGPA = \frac{(100 + 175)}{14 + 25} = \frac{274}{39} = 7.05$ | | |
| II | XX27 | 0:0:2=1 | B | 8 | 1x8=08 | | | |
| II | XX28 | 1:1:1 = 2 | A | 9 | 2x9=18 | | | |
| II | XX29 | 1:0:0 = 1 | B | 8 | 1x8=08 | | | |
| I semester | | | | | | | | |
| I | XX12 | 2:2:0 = 3 | D | 6 | 3x6=18 | | | |
| I | XX14 | 3:0:0 = 3 | C | 7 | 3x7=21 | | | |
| Total | | 26(25*) | Total | | 175 | | | |
| (25*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration. | | | | | | | | |
| (b) CGPA Calculation of the Programme: An Illustrative Example | | | | | | | | |
| Semester | I | II | III | IV | V | VI | VII | VIII |
| Credits of the semester | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 16 |
| SGPA | 5.00 | 6.73 | 9.20 | 6.86 | 8.18 | 7.73 | 9.18 | 9.40 |
| ΣCrP | 100 | 175 | 220 | 165 | 204 | 185 | 184 | 169 |
| $CGPA = \frac{[100 + 175 + 220 + 165 + 204 + 185 + 184 + 169]}{160} = \frac{[1402]}{160} = 8.7625$ | | | | | | | | |

Annexure - IV
Guidelines for Honours Degree at B.E./B.Tech. programs

| VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI REGULATIONS GOVERNING THE AWARD OF 'HONOURS' AT B.E/B.TECH. PROGRAMS (Approved in JBOS at Agenda Point No. 3 & E.C. vide Res. No. 2.2.1 (148 th Meeting) 14-10-2019) | |
|---|--|
| 1. | Preamble: These Regulations Governing the Award of 'Honours' At B.E/B.Tech. Degree Programs have been framed in pursuance of the provisions for this qualification in the AICTE Model Curriculum for Undergraduate Courses in Engineering & Technology, Vol. I and II, January 2018 and in the UGC Notification on Specification of Degrees, March 2014. These provisions aim at facilitating the award of higher qualifications and recognition to well-performing undergraduate and postgraduate students of the University on their acquiring additional credits in the same time period for the programs. In adopting these provisions, the University has taken steps to ensure that the quality and standard of the Degree awards are not compromised in any way and they continue to be maintained at a high level. |
| 2. | Short Title, Applicability, and Commencement: a) These Regulations shall be called "VTU Regulations Governing the Award of 'Honours' at B.E/ B. Tech. Programs,2019" b) These Regulations shall be applicable to all B. E. / B. Tech. Programs are being conducted by the University and the autonomous college under the University. c) These Regulations shall come into force from the date of their notification by the University. |
| 3. | Definitions: In these Regulations, unless the context requires otherwise or it is specifically do defined: |
| | a) 'Academic Senate (AS)', 'Board of studies (BOS)', 'Executive Council (EC)', mean the respective Authorities of the University. b) AICTE' means theAll India Council for Technical Education established in New Delhi by an Act of Parliament in 1987. c) 'Coursework' means the Courses prescribed for the relevant program. Which the candidate shall successfully complete in the specified time period for the Degree award. d) 'E-resources' means learning material saved electronically in <i>online storage platforms/devices</i> for use anywhere/any time accessed online or after being downloaded from the relevant sources. e) 'Honours' means a higher recognition award to a well-performing UG student on earning the specified extra credits after satisfying the relevant Degree award conditions. f) 'Intake' means the number of students sanctioned for admission in a year, to a program/Department/College as the case may be. g) 'MOOCS' means <i>massive open online courses</i> in a variety of disciplines available at both introductory and advanced levels accessible from e-resources in India andabroad. h) 'Principal' means the executive head of an affiliated/ constituent/ autonomous college under the university. i) Registrar and 'Registrar (Evaluation)' mean respectively the Registrar and Registrar (Evaluation) of the University. j) UGC' means the University Grants Commission established At New Delhi by an Act of Parliament in 1956. |

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| | |
| k) | 'University means the Visvesvaraya Technological University (VTU) with its headquarters at Belagavi |
| l) | 'Vice Chancellor' means the Vice Chancellor of the University. |
| 4. | Eligibility Criteria for Registration : |
| | Every student of the University intending to register for the Honours qualification shall fulfill the following academic requirements at only in the 5 th Semester for UG, as may be applicable: |
| a) | He/ She shall have obtained a Grade \geq D in all Courses, in the semesters until this stage. |
| b) | He/ She have obtained a CGPA \geq 8.50 until this stage. |
| 5 | Registration Procedure: |
| a) | Any students meeting the eligibility criteria specified above and intending to register for the Honours qualification shall apply to the University through the Principal of his /her College in the prescribed form along with the prescribed application fee within 15 Working days after notification by the University. |
| b) | There shall be no limit on the intake of students for registration for the Honours qualification. All the applicants fulfilling the eligibility criteria can register. |
| c) | The Registrar shall notify the registration, or otherwise, of the students/s within the next 15 working days on the University Notice Boards with copies to the Colleges concerned. |
| d) | If registered, the students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration. |
| e) | Any student failing to maintain the performance in the 5 th -8 th at UG levels prescribed under clauses 4 (a) (b), as the case may be, shall discontinue the attempt to earn additional credits. The Registrar shall notify the list of deregistered students from time to time. |
| 6. | Additional Coursework : |
| | In addition to the courses prescribed by the University to be completed successfully in the remaining Semesters. That is, (5-8, at UG)) for the relevant Degree award, each student registered for the Honours qualification shall have to take up the following coursework and complete the same successfully within the minimum prescribed duration for the award of degree. |
| a) | The relevant BOS shall announce the list of online courses chosen from NPTEL/SWAYAM, which shall be reviewed and updated periodically. The University shall have the freedom to review and approve additional online platforms from time to time. |
| b) | At UG level, Students shall choose online courses of 18 or more credits to be earned from the above list as defined in 6(a). |
| c) | In each case, the students shall be required to make use of the bouquet of online courses prepared by him/her along with the Faculty Advisor. |
| d) | The online courses chosen for forming a bouquet shall be from the approved online courses as defined in 6(a). |

| e) | <p>Credit equivalence: The credit equivalence for online courses shall be determined based on the following table.</p> <p>Table-1; Recommended credit</p> <table border="1"> <tr> <th>Online course duration</th><th>Recommended credits</th></tr> <tr> <td>4 weeks/10-15 hours</td><td>01</td></tr> <tr> <td>8 weeks/20-30 hours</td><td>02</td></tr> <tr> <td>12 weeks/30-45 hours</td><td>03</td></tr> </table> | Online course duration | Recommended credits | 4 weeks/10-15 hours | 01 | 8 weeks/20-30 hours | 02 | 12 weeks/30-45 hours | 03 |
|------------------------|--|------------------------|---------------------|---------------------|----|---------------------|----|----------------------|----|
| Online course duration | Recommended credits | | | | | | | | |
| 4 weeks/10-15 hours | 01 | | | | | | | | |
| 8 weeks/20-30 hours | 02 | | | | | | | | |
| 12 weeks/30-45 hours | 03 | | | | | | | | |
| f) | The method of assessment shall be as per the respective online platforms. | | | | | | | | |
| g) | The student going through this online coursework shall be required to submit the relevant certificates issued by the relevant online platform through the Head of Institute (HoI) to the Registrar (Evaluation) on completion of such courses. | | | | | | | | |
| 7. | Award of Honours Qualification: | | | | | | | | |
| | All the students who successfully complete the online course as prescribed under Section 6 above and submit their certificates in time before the closure of the UG (8 th Semester) as per the academic calendar shall be eligible for the 'Honours' qualification. | | | | | | | | |
| a) | The 'Honours' qualification shall be suffixed to the respective degrees and shown in the Degree certificate as a recognition of higher achievement by the student concerned | | | | | | | | |
| b) | The CGPA and/or Class awarded to the students shall be only on the basis of students' performance in the various semester-level examinations conducted by the University/ Autonomous college, as the case may be. | | | | | | | | |
| 8. | Repeal and Savings: | | | | | | | | |
| a) | Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules or regulations in force at the University shall be inapplicable to the extent of their inconsistency with these Regulations. | | | | | | | | |
| b) | The University shall issue such orders/instructions, and prescribe such format/procedure, as it may deem fit to implement the provisions of these Regulations. | | | | | | | | |
| 9. | Interpretation: | | | | | | | | |
| a) | Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding. | | | | | | | | |
| b) | The University shall have the powers to issue clarifications to remove any doubt, difficulty or anomaly which may arise during the implementation of the provisions of these Regulations. | | | | | | | | |

Annexure - V

REGULATIONS GOVERNING THE AWARD OF 'MINOR AT B.E/B.TECH DEGREE PROGRAMS

| | |
|-----------|--|
| 1. | <p>Preamble:</p> <p>The concept of Major and Minors at B . E . / B.Tech. level is introduced, to enhance the learning skills of students, acquisition of additional knowledge in domains other than the discipline being pursued by the student, make the students better employable with additional knowledge, and encourage students to pursue cross-discipline research.</p> <p>A student performing well in his academics can choose courses in any other discipline and can get a minor degree in that. This way they are not restricted to learning about things only in the discipline they get admitted to, but can choose courses of their interest to, later on, take up a career path of their liking. The students taking up a minor course will get additional credits. The opportunity of acquiring additional credits and the minor would be available to the students of all the degrees and disciplines of the B.E.,/ B.Tech, program.</p> |
| 2. | Short Title, Applicability, and Commencement: |
| 2a | These Regulations shall be called “VTU Regulations Governing the Award of “Minor” at B.E/ B. Tech., Degree Programmes, 2021 |
| 2b | These Regulations shall be applicable to all B.E/ B. Tech. Programs are being conducted by the University and the autonomous college under the University. |
| 2c | These Regulations shall come into force from the date of their notification by the University. |
| 3. | Definitions: |
| | In these Regulations, unless the context requires otherwise or it is specifically do defined: |
| 3a | ‘Academic Senate (AS), ‘Board of studies (BOS),’ Executive Council (EC),’ mean the respective Authorities of the University. |
| 3b | AICTE ’ means theAll India Council for Technical Education established in New Delhi by an Act of Parliament in 1987. |
| 3c | ‘Coursework’ means the Courses prescribed for the relevant program. Which the candidate shall successfully complete in the specified time period for the Degree award. |
| 3d | ‘E-resources’ means learning material saved electronically in online storage platforms/devices for use anywhere/any time accessed online or after being downloaded from the relevant sources. |
| 3e | ‘Minor’ means a recognition award to a well-performing UG student on earning the specified extra credits after satisfying the relevant Degree award conditions. |

| | |
|----|---|
| 3f | 'Intake' means the number of students sanctioned for admission in a year, to a program/Department/College as the case may be. |
| 3g | 'MOOCS' means <i>massive open online courses</i> in a variety of disciplines available at both introductory and advanced levels accessible from e-resources in India and abroad. |
| 3h | 'Principal' means the executive head of an affiliated/ constituent/ autonomous college under the university. |
| 3i | Registrar and 'Registrar (Evaluation)' mean respectively the Registrar and Registrar (Evaluation) of the University. |
| 3j | UGC' means the University Grants Commission established At New Delhi by an Act of Parliament in 1956. |
| 3k | 'University' means the Visvesvaraya Technological University (VTU) with its headquarters at Belagavi |
| 3l | 'Vice Chancellor' means the Vice Chancellor of the University. |
| 4. | Eligibility Criteria for Registration : |
| | Every student of the University intending to register for the Minor qualification shall fulfill the following academic requirements only in the 5 th Semester for UG as may be applicable: |
| 4a | He/ She shall have obtained a Grade \geq D in all Courses, in the semesters until this stage. |
| 4b | He/ She has obtained a CGPA \geq 7.5 up to the 4 th semester. |
| 5 | Registration Procedure: |
| 5a | Any student meeting the eligibility criteria specified above and intending to register for the Minor qualification shall apply to the University through the Principal of his /her College in the prescribed form along with the prescribed application fees within 15 Working days after notification by the University. |
| 5b | There shall be no limit on the intake of students for registration for the Minor qualification. All the applicants fulfilling the eligibility criteria can register. |
| 5c | The Registrar shall notify the registration, or otherwise of the students within the next 15 working days on the University Notice Boards with copies to the Colleges concerned. |
| 5d | If registered, the students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration. |
| 5e | Any students failing to maintain the performance in the 5 th -8 th Semesters at UG, as the case may be, at the levels prescribed under clauses 4 (a) and 4(b) shall not be eligible for award of minor degree. The Registrar shall notify the list of deregistered students from time to time. |

| 6. | Additional Coursework: | | | | | | | | |
|------------------------|--|------------------------|---------------------|---------------------|----|---------------------|----|----------------------|----|
| | In addition to the courses prescribed by the University to be completed successfully in the remaining Semesters. That is, (5-8, at UG) for the relevant Degree award, each student registered for the Minor qualification shall have to take up the following coursework and complete the same successfully within the minimum prescribed duration for the award of degree. | | | | | | | | |
| 6a | <p>The relevant BOS shall announce the list of online courses chosen from NPTEL/SWAYAM, which shall be reviewed and updated periodically. The University shall have the freedom to review and approve additional online platforms from time to time. It is expected that all courses declared under Minors should be completed by the students through an online platform.</p> <p>If courses are not offered by the online platform in such a situation student is permitted to complete the course(s) in self-study mode or offline mode offered by University. The relevant Board of Studies shall announce the list of the courses for Minors</p> | | | | | | | | |
| 6b | At the UG level, Students shall choose online courses minimum of 18 credits to be earned from the above list as defined in 6(a). | | | | | | | | |
| 6c | In each case, the students shall be required to make use of the bouquet of online courses prepared by the Faculty Advisor. | | | | | | | | |
| 6d | The online courses chosen for forming a bouquet shall be from the approved online courses or courses prepared by the relevant BOS of the university as defined in 6(a). | | | | | | | | |
| 6e | <p>Credit equivalence: The credit equivalence for online courses shall be determined based on the following table.</p> <p>Table-I Recommended credit</p> <table border="1"> <thead> <tr> <th>Online course duration</th><th>Recommended credits</th></tr> </thead> <tbody> <tr> <td>4 weeks/10-15 hours</td><td>01</td></tr> <tr> <td>8 weeks/20-30 hours</td><td>02</td></tr> <tr> <td>12 weeks/30-45 hours</td><td>03</td></tr> </tbody> </table> | Online course duration | Recommended credits | 4 weeks/10-15 hours | 01 | 8 weeks/20-30 hours | 02 | 12 weeks/30-45 hours | 03 |
| Online course duration | Recommended credits | | | | | | | | |
| 4 weeks/10-15 hours | 01 | | | | | | | | |
| 8 weeks/20-30 hours | 02 | | | | | | | | |
| 12 weeks/30-45 hours | 03 | | | | | | | | |
| 6f | The method of assessment shall be as per the respective online platforms. The students going through this online coursework shall be required to submit the relevant certificates issued by the relevant online platform to the Registrar (Evaluation) on completion of such courses. | | | | | | | | |
| 6g | If the student chooses the courses (other than online) courses listed by BOS of University, the concerned college will conduct the examinations and evaluation as per | | | | | | | | |

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| | the guideline issued by the University. The principal of the college has to submit the evaluation result to the Registrar (Evaluation) of VTU Belagavi. |
| 7. | Award of Minor Qualification |
| | All the students who successfully complete the online course as prescribed under Section 6 above and submit their certificates in time before the closure of the UG (8 th Semester) as per the academic calendar shall be eligible for the “ Minors” qualification. |
| 7a | The “Minors’ qualification shall be suffixed to the respective degrees and shown in the Degree certificate as a recognition of higher achievement by the student concerned |
| 7b | The CGPA and/or Class awarded to the students shall be only on the basis of students’ performance in the various semester-level examinations conducted by the University/ Autonomous college, as the case may be. |
| 8. | Repeal and Savings: |
| 8a | Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules, or regulations in force at the University shall be inapplicable to the extent of their inconsistency with these Regulations. |
| 8b | The University shall issue such orders/instructions, and prescribe such format/procedure, as it may deem fit to implement the provisions of these Regulations. |
| 9. | Interpretation: |
| 9a | Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding. |
| 9b | The University shall have the powers to issue clarifications to remove any doubt difficulty or anomaly which may arise during the implementation of the provisions of these Regulations. |

Annexure-VI
Guidelines for AICTE Activity Point Programme
(Activity Summary Sheet)

For more details, AICTE Activity Point Programme, Model Internship Guidelines may be referred.

| AICTE Activity Point Programme (Activity Summary Sheet) | | | | | |
|---|---|------------------|---------|---|---|
| The AICTE Activity Programme, a non-credit program, can be taken up any time during the semester weekends and holidays. These activities can be spread over the years, as per the convenience of the student. However, the minimum hours specified must be satisfied. | | | | | |
| Following suggestive activities may be carried out by students in teams as per their choice. | | | | | |
| Sl. No. | Activity Head | Minimum Duration | | Performance appraisal/ Maximum points/ activity | Evaluated by |
| | | Weeks | Hours | | |
| 1 | Helping local schools to achieve good result and enhance their enrolment in Higher/ technical/ Vocational Education. | 2 | 80 - 90 | 20 | NSS/ youth Red Cross Co-ordinators /Chairperson -CICC (College Internal Complaints Committee) / SAGY (Sansad Adarsh Gram Yojana, Govt. of India) of the institute/ Mentor |
| 2 | Preparing an actionable business proposal for enhancing the village Income. | 2 | 80 - 90 | 20 | |
| 3 | Developing a Sustainable Water Management system | 2 | 80 - 90 | 20 | |
| 4 | Tourism Promotion Innovative Approaches. | 2 | 80 - 90 | 20 | |
| 5 | Promotion of Appropriate Technologies. | 2 | 80 - 90 | 20 | |
| 6 | Reduction in Energy Consumption. | 2 | 80 - 90 | 20 | |
| 7 | To Skill rural population. | 2 | 80 - 90 | 20 | |
| 8 | Facilitating 100% Digitized money transactions. | 2 | 80 - 90 | 20 | |
| 9 | Setting of the information imparting club for women leading to contribution in social and economic issues. | 2 | 80 - 90 | 20 | |
| 10 | Developing and managing efficient garbage disposable system. | 2 | 80 - 90 | 20 | |
| 11 | To assist the marketing of rural produce. | 2 | 80 - 90 | 20 | |
| 12 | Food preservation /packaging. | 2 | 80 - 90 | 20 | |
| 13 | Automation of local activities. | 2 | 80 - 90 | 20 | |
| 14 | Spreading public awareness under rural outreach programmes | 2 | 80 - 90 | 20 | |
| 15 | Contribution to any national level initiative of Government of India. For e.g. Digital India/ Skill India/ Swachh Bharat Internship etc., | 2 | 80 - 90 | 20 | |



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/Elective course system has been Implemented

Minutes of Relevant Academic Council/BOS Meetings of the Affiliating University

2 : Matters Concerning Board of Studies

Item No.2.2.1 of the Agenda of the
114th meeting of the Executive Council
to be held on 2nd August 2014

CONSIDERATION OF REVISION OF SCHEME & SYLLABUS OF B.E./B.ARCH. PROGRAMMES (2014-15)

The Scheme & Syllabus of UG Programmes were revised during the year 2010-11. As has been the policy of VTU to revamp the Scheme and Syllabus for every 4 years for UG Programme and two years for PG Program, the University has taken up this exercise in revising the Scheme & Syllabus from the academic year 2014-15.

In this connection, the Chairman, BOS of the concerned Boards of Studies have prepared and submitted the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes to be made effective from 2014-15. However, the same has already been uploaded in the University website for convenient of the students and teaching staff in view of urgency.

Hence, the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

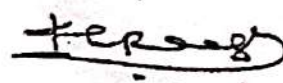
Resolution No.2.2.1

The Executive Council resolved to accept the recommendation of the Academic Senate which recommended to approve the revision of Scheme & Syllabus of B.E. / B.Arch. Programmes from the academic year 2014-15.

Minutes of the 114th Executive Council Meeting held on 2-8-2014 A6




PRINCIPAL
Alva's Institute of Engg. & Technology
Majur, MOODSIBRI - 574 225, D.D.



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| Item No.2.2.3 | <p>Consideration of the Regulations Governing the PG Programmes (M. Tech., M.Arch., MBA and MCA) under CBCS at VTU</p> |
| | <p>The Choice Based Credit System (CBCS) has been introduced in the curriculum of PG courses of VTU since the academic year 2016-17. In this context, new Regulations needed to be framed for the PG programmes of VTU, in place of existing Regulations.</p> <p>The subject of finalisation of Regulations governing different PG programmes under CBCS was discussed in the Joint Board of Studies (JBOS) meeting held on 19-8-2016 and the JBOS has recommended to accept in principle the Common Regulations for all PG programmes, as placed. However, JBOS authorised the Special Invitee Dr. M. S. Shivakumar and Dr.Keshavamurthy, to take note of the observations made during the meeting and recast the CBCS regulations for M.Tech., MCA and MBA programmes of VTU, in line with the structure of already framed B.E./B.Tech. Regulations under CBCS, so that maximum uniformity is maintained across all the PG course regulations.</p> <p>Now, the draft Regulations governing the (i) Master of Technology (ii) Master of Architecture (iii) Master of Business Administration and (iv) Master of Computer Applications as finalised, are placed before the Executive Council for approval as per the provisions of Section 20(n) of VTU Act 1994. If approved the same will be implemented w.e.f 2017-18.</p> <p>The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.</p> |
| | <p>Resolution No.2.2.3</p> <p><i>The Executive Council resolved to accept the changes as suggested by the Academic Senate for the draft Regulations Governing the PG Programmes (M.Tech.,M.Arch. MBA, and MCA) under CBCS of VTU. However, the Executive Council resolved to refer these Regulations to the Joint Boards of Studies, as some more modifications were felt necessary, and finalise on the similar lines of Regulations governing CBCS UG Programmes.</i></p> |

Executive Council Meeting held on 28-06-2017.....

Item No.3 of the Agenda of the Extra-ordinary 120th meeting of the Executive Council to be held on 8-6-2015

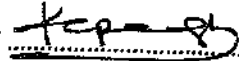
Consideration of Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme.

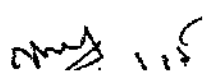
The Joint Board of Studies Meeting was held on 27-4-2015 in the VTU's Regional Office, Bengaluru. The Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme were finalized and approved.

The approved Regulations are being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

Resolution No.3

The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme.

Proceedings of the Extra-ordinary 120th Executive Council Meeting held on 8-6-2015 

 1.15

CHOICE BASED CREDIT SYSTEM (CBCS)
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY
(B.E./B.Tech.)

DEFINITIONS OF KEY WORDS:

1. **University:** Visvesvaraya Technological University, Belagavi.
2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
3. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from August to January and even semester from February to July.
4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (*core, elective and Foundation Courses*).
5. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
6. **Programme:** An educational programme leading to award of a Degree or certificate.
7. **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
8. **Branch:** Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
9. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
10. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.
11. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
12. **Credit Point:** It is the product of grade point and number of credits for a course.
13. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits

taken during that semester. It shall be expressed up to two decimal places.

- 14. Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- 15. First Attempt:** If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.
- 16. Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses.

Sequencing Plan for the B.E. / B.Tech. Degree Curriculum

| Semesters | Course Coverage |
|------------------|---|
| I –II | HSS, BS and ES; Common for all Branches; Mandatory Courses |
| III-IV | BS Common for all Branches and ES; PS – Core/Elective |
| V-VII | PS- Core & Electives; Other Electives; Branch-wise Orientation |
| VIII | PS-Electives/Elective ; Other Electives, Internship, Project work |

Abbreviations:

HSS - Humanities and Social Sciences

BS - Basic Sciences

ES - Engineering Sciences

PS - Professional Subjects

Credit Structure for Course Work

| Lectures (hrs/wk /Sem) | Tutorial (hrs/wk/ Sem) | Lab. Work (hrs/wk/Sem) | Credits (Lec:instruction:Lab) | Credits (Total) |
|---------------------------------------|---------------------------------------|-----------------------------------|--|----------------------------|
| 4 | 0 | 0 | 4:0:0 | 4 |
| 3 | 0 | 0 | 3:0:0 | 3 |
| 0 | 1 | 2 | 0:1:2 | 2 |

CHOICE BASED CREDIT SYSTEM (CBCS)
REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY
(B.E./B.Tech.)

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| 15OB 1 | TITLE AND DURATION OF THE PROGRAMME OF STUDY |
| 15OB 1.1 | The program of study shall be called the degree Program of study in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech. |
| 15OB 1.2 | The program shall be of four academic years duration divided into eight semesters, each semester having duration of 16 weeks. For evening courses the contact hours are to be satisfied by working extra on afternoons of Saturdays and Sundays. |
| 15OB 1.3 | The calendar of events in respect of the program of study shall be fixed by the University from time to time. |
| 15OB 1.4 | The examination in all programs of study shall be conducted at the end of each semester for all eight semesters. |
| 15OB 2 | ELIGIBILITY FOR ADMISSION (The Government orders issued from time to time in this regard shall prevail). |
| 15OB 2.1 | Admission to I year / I semester Bachelor Degree in Engineering / Technology shall be open to the students who have passed the second year Pre-University or XII standard or equivalent examination recognized by the University. For the prerequisite qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory. The decision of the Equivalence committee shall be final in establishing the eligibility of student. |
| 15OB 2.2 | In addition to 15OB 2.1, the student shall have secured not less than forty five percent (45%) marks in the aggregate with Physics and Mathematics as compulsory subjects, along with any one of the following subjects, namely, Chemistry, Bio-Technology, Computer Science, Biology and Electronics or as decided by the Government of Karnataka. Provided that, the minimum marks for the purpose of eligibility shall be forty percent (40%) in optional subjects in case of students belonging to SC/ST and OBC students from Karnataka or as decided by the Government of Karnataka. Provided further that, the student shall have studied and passed English as one of the subjects. |
| 15OB 2.3 | Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the students Diploma Holders <ul style="list-style-type: none"> • Must have passed diploma or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and |

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| | <p>sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).</p> <ul style="list-style-type: none"> • Who have completed their Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka. • Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics – III and IV) and Mandatory subjects (CPH and CIV) as specified by the University. <p>B.Sc. Graduates</p> <ul style="list-style-type: none"> • Must have passed B.Sc. degree from a recognized University as defined by the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (including all six semesters). In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%). Should have studied Mathematics as subject of study at XII Standard. • Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester <ul style="list-style-type: none"> I. Computer Aided Engineering Drawing (CAED) and II. Programming in C and Data Structures III. CPH and CIV (if not studied at B.Sc. Level). |
| 15OB 2.4 | <p>Admission to Evening Programme of study shall be open to a student Who on the first day of the term notified by the University for the year of admission has at least one-year professional experience in the branch of engineering / technology, in which the student holds a diploma.</p> <p>Explanation: Professional experience means employment on regular basis</p> <ul style="list-style-type: none"> a. in Government, Government undertaking, Public Sector undertaking, Corporations or b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or c. In Government, Government recognized institutions as technical staff. <p>Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region Chennai or by any Government, Government undertaking or Public Sector undertaking.</p> <p>Provided further that employment shall be in an establishment situated within the urban agglomeration of city in which the professional institution is situated.</p> |
| 15OB 2.5 | <p>Those students, who have passed a qualifying examination other than</p> |

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| | the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi or from the Principal of concerned Engineering College of Karnataka State. |
| 15OB 3 | ATTENDANCE REQUIREMENT |
| 15OB 3.1 | Each semester is considered as a unit and the student has to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendation of the Principal of the college where the student is studying, showing reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops, paper presentation, etc. |
| 15OB 3.2 | The basis for the calculation of the attendance shall be the number of hours prescribed by the University by its calendar of events. For the first semester students, the same shall be reckoned from the date of admission to the course as per CET allotment. |
| 15OB 3.3 | The students shall be informed about their attendance status periodically by the colleges so that the students shall be cautioned to make up the shortage. The Principals of the affiliated Colleges shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. Provided that mere omission by the college to inform the student about the shortage of attendance shall not entitle him to appear for examination. |
| 15OB 3.4 | A student having shortage of attendance in one or more subjects shall have to repeat the whole semester and such students shall not be permitted to take admission to next higher semester. Such students shall take readmission to the same semester in the subsequent academic year. |
| 15OB 3.5 | TEMPORARY DISCONTINUATION OF THE PROGRAM: A student, who wishes to temporarily discontinue the program and continue the same subsequently, has to obtain prior permission from the University by applying through the Principal. Such students have to take readmission to the same semester/year in the subsequent academic year. However, the student shall complete the course as per 15OB 6.2. |
| 15OB 4 | INTERNAL ASSESSMENT MARKS |
| 15OB 4.1 | There shall be a maximum of 20 Internal Assessment Marks in each theory or practical paper. For seminars, the Internal Assessment marks shall be 50. |

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| 15OB 4.2 | The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 th and 12 th week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 15OB 4.13. The test shall be answered in Blue Books with pages serially numbered. These blue books shall be kept in the custody of the Principal of the College until after one month from the date of announcement of the result by the University. These shall be made available to University authorities for verification as per the directions of the Registrar (Evaluation)/ Registrar. |
| 15OB 4.3 | Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject. |
| 15OB 4.4 | If a student remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as AB for the subject against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College. |
| 15OB 4.5 | In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test. |
| 15OB 4.6 | The IA marks for I year Computer Aided Engineering / Drawing: a) 12 marks for class work (sketching and Computer Aided engineering drawing). b) 08 marks for test in the same pattern as that of the main examination (better of the two tests) ii) The IA marks for other Drawings and Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40. |
| 15OB 4.7 | The IA marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of 8 th semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide. |
| 15OB 4.8 | The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Internship/Project work/Seminar, shall be displayed on the notice board of the college at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principals to the University Examination Section within the stipulated date. Every page of the IA marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal. |
| 15OB 4.9 | Any corrections or over writing of IA marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall on every sheet indicate the number of corrections and attest it with his signature. |

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| 15OB 4.10 (a) | A student failing to secure a minimum of 50% of the IA marks in Practical/Internship/Project work shall not be eligible for the Practical/Internship/Project of the University examination. |
| 15OB 4.10 (b) | For seminars, the minimum requirement of IA marks shall be 40% of the maximum. |
| 15OB 4.11 | Such students as mentioned in 15OB 4.10 shall repeat the laboratory work/Internship/project work during the subsequent semester(s) and secure at least the minimum marks prescribed. |
| 15OB 4.12 | For theory subjects, there shall not be any minimum requirements of IA marks. |
| 15OB 4.13 | Improvement of IA marks shall not be allowed a. In theory subjects and b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks. |
| 15OB 4.14 | IA marks of those students to whom 15OB 4.11 is applicable, shall be sent separately to the Registrar (Evaluation). |
| 15OB 4.15 | IA marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances. |
| 15OB 5 | ELIGIBILITY FOR PASSING A student who obtained Grades O to E shall be considered as passed and if a student secured "F" grade in any of the head of passing he /she has to reappear for the examination. |
| 15OB 5.1 (a) | For a pass in a theory subject/drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and 40% of marks in the aggregate inclusive of the IA marks. i.e. Minimum Passing Grade is "E". |
| 15OB 5.1 (b) | For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Internship/Project/Viva-voce. i.e. Minimum Passing Grade in a course is "E". |
| 15OB 5.1 (c) | For a pass in Seminar, a student shall secure a minimum of 40% of the maximum marks prescribed. i.e. Minimum Passing Grade is "E". |
| 15OB 5.2 | The students who do not satisfy the condition 15OB 5.1 and the student who remains absent shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the IA marks awarded to the student/s at first attempt in the concerned theory subject will be carried forward. In case of Practical/Internship/Projects/Seminar revised marks will be taken as per regulations 15OB 4.10 (a & b) and 15OB 4.11. |
| 15OB 5.3 | The student who passes a course of a semester as per 15OB 5.1 shall |

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| | not be allowed to appear for the same again, unless he/she opts for rejection of results as per 15OB 5.4, 5.5, 5.6, 5.7 & 5.8. |
| OB 5.4 | A student may, at his/her desire, reject his/her total performance of a semester (including IA marks) or he/she may reject the result of his/her performance in University examination of a semester only. The rejection is permitted only once during the entire course of study. |
| 15OB 5.5 | The student who desires to reject the performance as per 15OB 5.4 shall reject performance in all the courses of the semester, irrespective of whether the student has passed or failed in any subject. However, the rejection of performance of 8 th semester project result shall not be permitted. |
| 15OB 5.6 | A student, who desires to reject the total performance of the semester including Internal Assessment, has to take readmission for the relevant semester. Application for such readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons. Readmission to First semester in such cases shall not be considered as fresh admission i.e., the student will continue to have the same University Seat Number, which was allotted earlier. The course duration permitted (as per 15OB 6) will be counted as per old USN. |
| OB 5.7 | The student, who desires to reject only the results of University examination of a semester and does not desire readmission, shall be permitted to re-appear for examinations of all the subjects of the semester in the subsequent examinations. However, the IA marks obtained by the student in the rejected semester shall be retained. Applications for such rejection shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons. If the rejection of the University examination results of the semester happens to be of the odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of the University result is of the even semester, the student shall not be allowed to take admission to the next odd semester (as per 15OB 7.2). |
| 15OB 5.8 | Such students who opt for rejection at final year are eligible for the award of class and distinction at the B.E./ B.Tech. degree level, but are not eligible for the award of ranks. |
| 15OB 5.9 | A student shall be declared to have completed the program of B.E. / B.Tech., degree, provided the student has undergone the stipulated course work as per the regulations and has earned at least 200 Credits. |
| 15OB 6 | MAXIMUM DURATION FOR COURSE COMPLETION |
| 15OB 6.1 | A student who has not obtained the eligibility for third semester after a |

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| | period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch. |
| 15OB 6.2 | The student admitted to 1 st year B.E./ B.Tech. shall complete the course within a period of eight academic years from the date of first admission, failing which he/she has to discontinue the course. The students admitted under lateral entry scheme (2nd Year B.E./B.Tech.) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course. |
| 15OB 7 | PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS |
| 15OB 7.1 | There shall not be any restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement. |
| 15OB 7.2 | <p>A student shall be eligible for promotion from an even semester to the next odd semester (i.e. of the next academic year) if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all the lower semester examinations. A theory or practical shall be treated as a head of passing.</p> <p>Illustrations</p> <ol style="list-style-type: none"> A student seeking eligibility to 3rd semester should not have failed in more than 4 heads of passing of first and second semesters taken together. A student seeking eligibility to 5th semester should have passed in all the subjects of 1st and 2nd semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together. A student seeking eligibility to 7th semester should have passed in all the subjects up to 4th semester and should not have failed in more than 4 heads of passing of 5th and 6th semesters taken together. <p>The Subjects:</p> <ol style="list-style-type: none"> Constitution of India, Professional Ethics and Human Rights, and Environmental Studies <p>are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.</p> |
| 15OB 8 | COURSES |

| | |
|----------|--|
| 15OB 8.1 | <p>There will be Four types of courses</p> <p>(i) Core Courses: This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses will have 4 credits per course.</p> <p>(ii) Foundation Courses: The Foundation Courses are of two kinds: <i>Compulsory Foundation</i> and <i>Elective foundation</i>.</p> <p>“Compulsory Foundation”: These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. These courses will have 4 credits per course.</p> <p>“Foundation Electives”: These are value based courses aimed at man making education. These courses will have 3 credits per course.</p> <p>(iii) Elective Courses: This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have 3 credits per course.</p> <p>(iv) Mandatory Non-Credit Courses: These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.</p> |
| 15OB 8.2 | The minimum number of students to be registered for an Elective to be offered shall be not less than ten. |
| 15OB 8.3 | A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University. |
| 15OB 9 | INTERNSHIP |
| 15OB 9.1 | <p>Internship: The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7th semester Examination after availing one week vacation and completing during the initial period of 8th semester.</p> <ol style="list-style-type: none"> 1. The college shall nominate a faculty for a group of students to prepare the students for internship. 2. The students shall report the progress of the internship to the guide in regular intervals and may seek his/her advise. 3. The Internship shall be completed between 7th and 8th semesters. 4. After completion of 7th semester Theory and Practical examinations, the students shall have one week vacation. 5. Immediately after availing one week vacation, the students shall undergo internship (without waiting for the results) which may be a period of 4/5 weeks. |

6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8th semester.
7. After completion of Internship, students shall submit a report to the college with the approval of both internal and external guides.
8. There will be 50 IA and 50 External marks for Internship.
9. The guide shall be the internal examiner and IA marks out of 50 are to be awarded by the internal guide after evaluating the Internship Report submitted by the student.
10. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide.
11. Viva-Voce on internship shall be conducted by both internal and external guides and jointly evaluate the internship report for 50 marks. The expenses of external guide are to be borne by the student/college.
12. In case of the non availability of external guide for the conduct of viva-voce, the Principal shall appoint a senior faculty of the department to conduct viva-voce along with the internal guide, and they jointly evaluate the internship report for 50 marks.
13. The students are permitted to carry out the internship outside India with the following conditions:
 - a. The entire expenses are to be borne by the student or college and the University will not give any financial assistance.
 - b. The Internal Guide has to visit at least once during the student's internship; the expenses of the visit are to borne by the student/college.
 - c. The external guide from the industry has to be an examiner for the viva voce on Internship, and the expenses are to be borne by the student/ college.
 - d. The University will not provide any kind of Financial Assistance to any student for internship and for the conduct of Viva-Voce on internship.

| 15OB9.2 | Report on Internship: The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|-----------|--------------|-----------|---------------|---------|---------------|---------|------|------|--------------|---|---|---|---|---|---|---|---|--------------|----|---|---|---|---|---|---|----|
| 15OB9.3 | Failing to undergo Internship: Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB9.4 | Non-completion of Internship: In such cases, the student has to redo the internship. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB 10 | SEMINAR AND PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB 10.1 | Seminar topic shall be selected from the emerging technical areas only. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB 10.2 | Project work at 8 th semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB 10.3 | Viva-voce examination in project work shall be conducted batch-wise. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15OB 11 | COMPUTATION OF SGPA AND CGPA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>i. The VTU adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.</p> <p>ii. The grading system is with the following letter grades as given below:</p> <p>Grades and Grade Points</p> <table><tr><th>Level</th><th>Out-standing</th><th>Excellent</th><th>Very Good</th><th>Good</th><th>Above Average</th><th>Average</th><th>Poor</th><th>Fail</th></tr><tr><th>Letter Grade</th><td>O</td><td>S</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr><tr><th>Grade Points</th><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>00</td></tr></table> <p>iii. A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination.</p> <p>Such students after passing the failed subject in subsequent examination/s will be awarded with "E" grade irrespective of marks he/she scores in the subsequent examination/s.</p> <p>Number of attempts taken to clear a subject/s shall be shown in the transcripts.</p> | Level | Out-standing | Excellent | Very Good | Good | Above Average | Average | Poor | Fail | Letter Grade | O | S | A | B | C | D | E | F | Grade Points | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 00 |
| Level | Out-standing | Excellent | Very Good | Good | Above Average | Average | Poor | Fail | | | | | | | | | | | | | | | | | | | | |
| Letter Grade | O | S | A | B | C | D | E | F | | | | | | | | | | | | | | | | | | | | |
| Grade Points | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 00 | | | | | | | | | | | | | | | | | | | | |

Grade Points Scale

| Level | Out-standing | Excellent | Very Good | Good | Above Average | Average | Poor | Fail |
|----------------------------|--------------|-----------|-------------|-------------|---------------|-------------|------------|------|
| Letter Grade | O | S | A | B | C | D | E | F |
| Grade Points | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 00 |
| Score (Marks) Range (%) | ≥ 90 | <90 | < 80 ≥70 | < 70 ≥60 | < 60 ≥50 | < 50 ≥45 | <45 ≥40 | < 40 |

Computation of SGPA and CGPA

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$\text{SGPA (Si)} = \sum(C_i \times G_i) / \sum C_i$$

where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

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

where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

Illustration for Computation of SGPA and CGPA

Computation of SGPA

Illustration No.1

| Course | Credit | Grade letter | Grade point | Credit Point (Credit x Grade) |
|----------|--------|--------------|-------------|-------------------------------|
| Course 1 | 4 | A | 8 | 4x8 = 32 |
| Course 2 | 4 | C | 6 | 4x6 = 24 |
| Course 3 | 4 | B | 7 | 4x7 = 28 |
| Course 4 | 3 | O | 10 | 3x10= 30 |
| Course 5 | 3 | D | 4 | 3x4 = 12 |
| Course 6 | 3 | C | 6 | 3x6 = 18 |
| Course 7 | 2 | S | 9 | 2x9 = 18 |
| Course 8 | 2 | C | 6 | 2x6 = 12 |
| | 25 | | | 174 |

Thus, **SGPA= 174/25=6.96**

Illustration No.2

| Course | Credit | Grade letter | Grade point | Credit Point (Credit x Grade) |
|----------|--------|--------------|-------------|-------------------------------|
| Course 1 | 4 | A | 8 | 4x8 = 32 |
| Course 2 | 4 | C | 6 | 4x6 = 24 |
| Course 3 | 4 | B | 7 | 4x7 = 28 |
| Course 4 | 3 | O | 10 | 3x10= 30 |
| Course 5 | 3 | F | 0 | 3x0 = 00 |
| Course 6 | 3 | C | 6 | 3x6 = 18 |
| Course 7 | 2 | S | 9 | 2x9 = 18 |
| Course 8 | 2 | C | 6 | 2x6 = 12 |
| | 25 | | | 162 |

Thus, **SGPA= 162/25=6.48**

Illustration No.2(a)

| Course | Credit | Grade letter | Grade point | Credit Point (Credit x Grade) |
|----------|--------|--------------|-------------|---|
| Course 5 | 3 | E | 4 | 3x4 =12 |
| | 25 | | | Ci (First Attempt)162 + Ci (subsequent attempt) 12= 174 |

Thus, **SGPA= 174/25=6.96**

Illustration No.3

| Course | Credit | Grade letter | Grade point | Credit Point (Credit x Grade) |
|----------|--------|--------------|-------------|-------------------------------|
| Course 1 | 4 | A | 8 | 4x8 =32 |
| Course 2 | 4 | C | 6 | 4x6 =24 |

| | | | | |
|----------|----|---|----|--------------------|
| Course 3 | 4 | B | 7 | $4 \times 7 = 28$ |
| Course 4 | 3 | O | 10 | $3 \times 10 = 30$ |
| Course 5 | 3 | S | 9 | $3 \times 9 = 27$ |
| Course 6 | 3 | C | 6 | $3 \times 6 = 18$ |
| Course 7 | 2 | S | 9 | $2 \times 9 = 18$ |
| Course 8 | 2 | C | 6 | $2 \times 6 = 12$ |
| | 25 | | | 189 |

Thus, $SGPA = 189/25 = 7.56$

$$CGPA = \frac{25 \times 6.96 + 25 \times 7.56}{50} = 7.26$$

CGPA after Final Semester

| Sem. - 1 | Sem. - 2 | Sem. - 3 | Sem. - 4 | Sem. - 5 | Sem. - 6 | Sem. - 7 | Sem. - 8 |
|------------------------|-------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| Credit : 24 SGPA: 7 | Credit: 24 SGPA: 8.5 | Credit : 27 SGPA: 9.2 | Credit : 27 SGPA: 6.86 | Credit : 24 SGPA: 8.18 | Credit : 24 SGPA: 7.73 | Credit : 24 SGPA: 8.68 | Credit : 26 SGPA: 9.4 |

Thus, $CGPA = \frac{24 \times 7 + 24 \times 8.5 + 27 \times 9.2 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.4}{200} = 8.2$

Transcript (Format): Based on the above recommendations on Letter grades, grade points, SGPA and CCPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters may be issued.

150B 12

CONVERSION OF GRADES INTO PERCENTAGE:

Conversion formula for the conversion of GPA into Percentage is
 $[CGPA \text{ Earned} - 0.75] \times 10 = \text{Percentage of marks scored.}$

Illustration: $[CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5\%$

150B 13

AWARD OF PRIZES, MEDALS & RANKS

150B-13.1

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

150B 13.2

For award of ranks in a branch, a minimum of 10 students should have appeared in the 8th semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in 8th semester or 10 students, whichever is less in that branch.

Illustration:

1. If 1028 students appeared for the 8th semester in Electronics and Communication Engineering Branch, the number of ranks to be awarded for Electronics and Communication Engineering will be 10.
2. If 90 students appeared for the 8th semester in Biomedical Engineering Branch, the number of ranks to be awarded for Biomedical Engineering will be 09.

150B
13.3

For award of rank in a branch of Engineering / Technology, the CGPA secured by the student from

- a) 1st to 8th semester for the students admitted to B.E./B.Tech. Program from 1st year, and


PRINCIPAL
 Alva's Institute of Engg. & Technology,
 Mijar. MOODBIDRI - 574 225, D.K.

| | |
|-----------|---|
| | <p>b) 3rd to 8th semester for the students admitted to B.E./B.Tech. Program from 2nd year (Lateral Entry) shall be considered.</p> <p>A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student</p> <p>a. Has passed 1st to 8th (students joining from 1st semester) or 3rd to 8th (in case of lateral entry) semester in all the subjects in first attempt only</p> <p>b. Has not repeated/rejected any of the lower semesters.</p> |
| 15OB 13.4 | <p>If two students get the same CGPA, the tie should 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, S, A, B etc shall be taken into account in rank ordering of the students in a program.</p> |
| 15OB 14 | TRANSFER OF STUDENTS |
| 15OB14.1 | <p>Transfer of students from one college to another college within Karnataka state shall be permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of the University and the provisions of 15OB 7.2.</p> <p>In the case of students from Universities other than VTU the students should have passed in all the courses of 1st & 2nd semesters for admission to 3rd semester and all the courses of 1st to 4th semesters for admission to 5th semester and all the courses of 1st to 6th semesters for admission to 7th semester.</p> <p>The students seeking admission from Universities other than VTU shall have to</p> <p>a. apply for establishment of equivalence with prescribed fees as notified by the VTU and</p> <p>b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.</p> |
| 15OB14.2 | <p>Transfer of students within the College from one branch to another branch at 3rd semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka and AICTE in this behalf.</p> |
| 15OB14.3 | <p>The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).</p> |

NOTE: *These regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all and may be modified from time to time.*

SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

| Sl. No. | Subject Code | Subject | | Teaching Department | Board | Theory /Lab/ Drawing (Hrs/ Week) | PHYSICS GROUP Examination Marks | | | Credits |
|---------|--------------|---|--------------------|----------------------------------|-------------|----------------------------------|------------------------------------|------|-------|---------|
| | | | | | | | Th./Pr. | I.A. | Total | |
| 1 | 14MAT11 | Engineering Maths-I | BS | Maths | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 2 | 14PHY12 | Engineering Physics | BS | Physics | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 3 | 14CIV13 | Elements of Civil Engg. & Engineering Mechanics | ES | Civil Engg. | Civil Engg. | 4 (T) | 80 | 20 | 100 | 4 |
| 4 | 14BME14 | Elements of Mechanical Engg. | ES | Mech. Engg. | Mech. Engg. | 4 (T) | 80 | 20 | 100 | 4 |
| 5 | 14ELE15 | Basic Electrical Engg. | ES | E & E | E & E | 4 (T) | 80 | 20 | 100 | 4 |
| 6 | 14WSL16 | Workshop Practice | ES | Mech., Auto, IP, IEM, Mfg. Engg. | Mech. Engg. | 3(2 hrs lab+ 1 hr instruction) | 80 | 20 | 100 | 2 |
| 7 | 14PHYL17 | Engg. Physics Lab | BS | Physics | Basic Sc. | 3(2 hrs lab+ 1 hr instruction) | 80 | 20 | 100 | 2 |
| 8 | 14CIP18 | *Constitution of India & Professional Ethics and Human Rights (CPH) | ES | Humanities | | 2 (Tutorial) | 80 | 20 | 100 | 1 |
| 9 | | Language (Kan.) | Mandatory learning | Humanities | | 1 (T) | - | - | - | - |
| | | | | | | 29 | 640 | 160 | 800 | 25 |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

| Sl. No. | Subject Code | Subject | | Teaching Department | Board | Theory /Lab/ Drawing (Hrs/ Week) | PHYSICS GROUP Examination Marks | | | Credits |
|---------|--------------|---|-----|----------------------------------|-------------|----------------------------------|------------------------------------|------|-------|---------|
| | | | | | | | Th./Pr. | I.A. | Total | |
| | | | | | | | | | | |
| 1 | 14MAT21 | Engineering Maths-I | BS | Maths | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 2 | 14PHY22 | Engineering Physics | BS | Physics | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 3 | 14CIV23 | Elements of Civil Engg. & Engineering Mechanics | ES | Civil Engg. | Civil Engg. | 4 (T) | 80 | 20 | 100 | 4 |
| 4 | 14EME24 | Elements of Mechanical Engg. | ES | Mech. Engg. | Mech. Engg. | 4 (T) | 80 | 20 | 100 | 4 |
| 5 | 14ELE25 | Basic Electrical Engg. | ES | E & E | E & E | 4 (T) | 80 | 20 | 100 | 4 |
| 6 | 14WSL26 | Workshop Practice | ES | Mech., Auto, IP, IEM, Mfg. Engg. | Mech. Engg. | 3(2 hrs lab+ 1 hr instruction) | 80 | 20 | 100 | 2 |
| 7 | 14PHYL27 | Engg. Physics Lab | BS | Physics | Basic Sc. | 3(2 hrs lab+ 1 hr instruction) | 80 | 20 | 100 | 2 |
| 8 | 14CIP28 | *Constitution of India & Professional Ethics and Human Rights | HS | Humanities | | 2 (Tutorial) | 80 | 20 | 100 | 1 |
| 9 | | Language (Eng.) | MNC | Humanities | | 1 (T) | - | - | - | -- |
| | | | | | | 29 | 640 | 160 | 800 | 25 |

CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

| Sl. No. | Subject Code | Subject | | Teaching Department | Board | Theory /Lab/ Drawing (Hrs/ Week) | CHEMISTRY GROUP Examination Marks | | | Credits |
|---------|--------------|------------------------------------|-----|-------------------------------|-------------|----------------------------------|--------------------------------------|------|-------|---------|
| | | | | | | | Th./Pr. | I.A. | Total | |
| 1 | 14MAT11 | Engineering Maths-I | BS | Maths | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 2 | 14CHE12 | Engineering Chemistry | BS | Chemistry | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 3 | 14PCD13 | Programming in C & Data Structures | BS | Any Engineering Department | CSE | 4 (T) | 80 | 20 | 100 | 4 |
| 4 | 14CED14 | Computer Aided Engineering Drawing | ES | Mech./IP/Auto/ Mfg.Engg./ IEM | Mech. Engg. | 6 (2I+ 4P) | 80 | 20 | 100 | 4 |
| 5 | 14ELN15 | Basic Electronics | ES | E & C / B & E / TC / IT | E & C | 4 (T) | 80 | 20 | 100 | 4 |
| 6 | 14CPL16 | Computer Programming Lab | ES | Any Engineering Department | CSE | 3(2 hrs lab+ 1 hr Tutorial) | 80 | 20 | 100 | 2 |
| 7 | 14CHEL17 | Engg. Chemistry Lab | BS | Chemistry | Basic Sci. | 3(2 hrs lab+ 1 hr Tutorial) | 80 | 20 | 100 | 2 |
| 8 | 14CIV18 | *Environmental Studies | HS | Civil / Environmental | Civil | 2 (Tutorial) | 80 | 20 | 100 | 1 |
| 9 | | Language (Kan.) | MNC | Humanities | | 1 (T) | - | - | - | - |
| Total | | | | | | 31 | 640 | 160 | 800 | 25 |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

| Sl. No. | Subject Code | Subject | | Teaching Department | Board | Theory /Lab/ Drawing (Hrs/ Week) | Examination Marks | | | Credits |
|---------|--------------|------------------------------------|-----|-----------------------------|-------------|----------------------------------|-------------------|------|-------|---------|
| | | | | | | | Th./Pr. | I.A. | Total | |
| 1 | 14MAT21 | Engineering Maths-I | BS | Maths | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 2 | 14CHE22 | Engineering Chemistry | BS | Chemistry | Basic Sc. | 4 (T) | 80 | 20 | 100 | 4 |
| 3 | 14PCD23 | Programming in C & Data Structures | BS | Any Engineering Department | CSE | 4 (T) | 80 | 20 | 100 | 4 |
| 4 | 14CED24 | Computer Aided Engineering Drawing | ES | Mech./IP/Auto/Mfg.Engg./IEM | Mech. Engg. | 6 (2L+ 4P) | 80 | 20 | 100 | 4 |
| 5 | 14ELN25 | Basic Electronics | ES | E & C / E & E / TC / IT | E & C | 4 (T) | 80 | 20 | 100 | 4 |
| 6 | 14CPL26 | Computer Program--ming Lab | BS | Any Engineering Department | CSE | 3(2 hrs lab+ 1 hr Tutorial) | 80 | 20 | 100 | 2 |
| 7 | 14CHEL27 | Engg. Chemistry Lab | BS | Chemistry | Basic Sc. | 3(2 hrs lab+ 1 hr Tutorial) | 80 | 20 | 100 | 2 |
| 8 | 14CIV28 | Environmental Studies | HS | Civil / Environmental | Civil | 2 (Tutorial) | 80 | 20 | 100 | 1 |
| 9 | | Language (Eng.) | MNC | Humanities | | 1 (T) | - | - | - | -- |
| Total | | | | | | 31 | 640 | 160 | 800 | 25 |

Proceedings of the Meeting of Joint Board of Studies held on 11th July 2016 at VTU Regional Office, Bengaluru 11.00 a.m.

The Joint Board of Studies meeting was convened on 11th July 2016 to discuss on the following agenda:

1. *Finalization of III and IV Semester UG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,*
2. *Finalization of PG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,*
3. *Internship Programme for QIP and Part Time Students,*
4. *Internship and Project for the Part Time PG students,*
5. *Adding Electives in Engineering physics suggested by few faculty members.*
6. *Any other matter with the permission of the chair.*

The Registrar, Dr. H.N. Jagannath Reddy formally welcomed Hon'ble Vice-Chancellor Dr. V. Sridhar and Chairmen of newly formed Boards of Studies, also Special invitee Dr. M.S. Shivakumar and requested Hon'ble Vice-Chancellor for further proceedings.

Hon'ble Vice-Chancellor once again welcomed Chairmen of newly formed Boards of Studies and Special invitee Dr. M.S. Shivakumar. Hon'ble Vice-Chancellor addressed regarding feedback received from faculty and other stake holders about revised Schemes and Syllabus to be adopted from 3rd to 8th semesters and PG programmes. The Hon'ble Vice-Chancellor requested Hon'ble members for discussions and deliberations. After detailed deliberations the following resolutions were made.

- UGC introduced CBCS to bring uniformity among all universities but in totality the system works in Autonomous colleges and deemed universities. However, university is adopting the same with certain modifications, in this regard.
- **Regulations governing the CBCS to be reviewed and incorporated.**
- Registration process and dropping of courses are not included in regulations.
- **Committee shall be formed to review regulations governing CBCS.**
- Resolved to adopt letter grades and guidelines as defined by AICTE regarding CBCS.
- No electives at 3rd and 4th semester levels. Electives are offered from 5th semester onwards with open elective concept one each in 5th and 6th semesters.
- 6 Theory and 2 Labs to be introduced in all semesters (UG).

- The Scheme for 3rd and 4th semester UG programme and for PG Programme has been finalized (Annexure I).
- Textile board is permitted to follow the existing course structure.
- Review on CIP and CIV courses and nature of examination conduct may be taken up during next syllabus review during 2019-20.
- Internship exams are to be carried out like practical exams i.e. if examiner is not available from industries, an external examiner may be called from counterpart colleges. Internship to be conducted during vacation period only.
- Part-time and QIP PG programs students have to take up internship during vacation if candidate is from teaching fraternity and if candidate from industry has to carryout work in industry other than where the candidate is working.
- Some weightage shall be given for publications in the M.Tech. Thesis evaluation.
- To download the curriculum of other reputed universities / institutions and refer for framing the curriculum and scheme for higher semesters.

Meeting was concluded with the thanks by the Registrar, Dr. H.N. Jagannatha Reddy also he requested all board chairmen to finalize the Scheme and syllabus within 20th July 2016.

Dean, Faculty of Engineering:

Registrar:

Vice-Chancellor:

Visvesvaraya Technological University, Belagavi

**Proceedings of the Joint Board of Studies meeting held on 19th August 2016 at VTU
Regional Office, Bangalore**

Members Present:

1. Dr. V. Sridhar, Vice Chancellor and the Chairman, JBoS
2. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU
3. Dr. M. S. Shivakumar, Hon'ble Executive Council Member, VTU, Special Invitee
4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture
5. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences
6. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology
7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science
8. Dr. Aswath M. U., Chairman, BOS in Civil Engg.
9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C
10. Dr. B. R. Lakshmikanth, Chairman, BOS in E & E
11. Dr. M. C. Jagath, Chairman, BOS in IPE
12. Dr. Mallikarjun. S. Holli, Chairman, BoS in Electronics & Instrumentation Engineering
13. Dr. U. Bhojananna, Chairman, BOS in Business Administration
14. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology
16. Dr. Vasudev T, Chairman BOS in MCA
17. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology
18. Dr. Keshava Murthy, Special Invitee.


Agenda:

1. Finalization of PG Programme Regulations under CBCS.
2. Finalization of PG Programme syllabus under CBCS.
3. Discussion on scheme to be followed by detained students joining the 3rd semester from conventional system.
4. Discrepancies in M.Tech 3rd Semester Internship Marks under CBCS.
5. Equivalence of UG Courses.
6. Any other matter with permission of the chair.

Minutes of the Meeting:

Dr. H.N. Jagannatha Reddy, Registrar, VTU, formally welcomed Dr. V. Sridhar, Hon'ble Vice-Chancellor and Chairman of Joint Board of Studies, VTU, Special invitees Dr. M.S. Shivakumar & Dr. Keshavamurthy and all the members to the meeting. He also also requested the Hon'ble Vice-Chancellor to Chair and to conduct the proceedings of the meeting.

The Hon'ble Vice-Chancellor on his behalf welcomed the members and briefed about the action taken on the resolutions of the previous JBoS meeting held on 11th July 2016. He requested


PRINCIPAL
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Mijar, MOODBIDRI - 574 225, U.K

- members to deliberate on the agenda and make recommendations. After detailed deliberations the following resolutions were made.

1. Agenda item 1: Finalization of PG Programmes Regulations under CBCS:—

The committee reviewed the PG Regulations placed on the table and noted that:

- The procedure for registration and dropping of courses were not specified in the Regulations.
- Evaluation procedure for Internship is to be similar to that of practical exams i.e. if examiner is not available from industries an external examiner may be called from other Colleges.
- As lateral entry admission at 2nd year level of course in UG and MCA programs are permitted, the rank declaration for the courses have to be made by considering the results starting from 2nd year level of the course.

Resolution: Resolved to accept in principle the Common Regulations under Choice Based Credit System for all PG programs as placed on the table. However, the Committee authorized the Special Invitees Dr. M.S. Shivakumar and Dr. Keshavamurthy, to take note of the above observations and recast the CBCS regulations for M.Tech., MCA and MBA inline with the structure of the already approved BE/ B.Tech. Regulations under CBCS system, so that uniformity is maintained across all the PG course Regulations to the extent as far as possible.

2. Agenda item 2: Finalization of PG Programmes syllabus under CBCS:

Resolution: Resolved to approve the Scheme and Syllabus of all M.Tech., MCA and MBA programmes as recommended by the respective Board of Studies.

3. Agenda item 3: Discussion on scheme to be followed by detained students joining the 3rd semester from conventional system:

Resolution: The failed/discontinued students taking readmission/joining the CBCS scheme shall follow the prevailing CBCS scheme and the marks obtained by them in the earlier semesters shall be converted into corresponding letter grades using the present Regulations.

4. Agenda item 4: Discrepancies in M.Tech. 3rd Semester Internship Marks under CBCS:

Resolution: Resolved to make modifications and incorporate the same the Scheme of Teaching and Examination.

5. Agenda item 5: Equivalence of UG Courses:

Resolution: A committee shall be constituted to frame guidelines for declaring equivalence of the UG courses for the purpose of employment and higher studies.

6. Agenda item 6: Any other matter with permission of the chair:

The subjects proposed by the members were discussed and the Committee resolved as follows:

- (a): Because the CBCS scheme is being newly introduced in the University, the Institutions shall take necessary steps to educate the students at regular intervals regarding passing standards and promotion criteria.
- (b): In the BE/B.Tech Courses, a student shall complete the mandatory courses like MATDIP, CIV and CIP before obtaining admission to final year of the course.
- (c): The dissertation reports of UG and PG programs printed on both sides of the sheet shall be accepted by the University. However, for the Ph.D and M.Sc (Engg) thesis the prevailing regulation shall continue.
- (d): Resolved to include the Chairman, Board of Studies, as Co-opted member in the respective Board of Examiners.
- (e): Regional level workshops shall be organized for Faculty to train them for writing effective Course Outcome statements and setting question papers helpful in assessing Program Outcomes as per NBA requirement.
- (f): Regional level workshops shall be organized for Principals, HODs and Senior Faculty to educate them for smooth implementation of CBCS scheme in their respective Institutions.

The meeting concluded with the thanks to the Chair by the Registrar, Dr. H.N. Jagannatha Reddy, and he also requested all the BOS Chairmen to finalize the Scheme and Syllabus for PG programs in the format provided by the University and submit to the University within a week, as PG classes are notified to commence from 1st September 2016.



Registrar


Proceedings of the Joint BoS meeting held on 06th March 2017 at VTU, Belagavi

Members Present:

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. K.B. Prakash in place of Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. B. R. Lakshmikanth, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holli, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr. Manjunath in place of Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. Ramakrishna in place of Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Prof. Keshava Murthy, Special Invitee.
19. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
20. Dr. K.R.Mulla in place of Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
21. Dr. Sateesh Annigeri, Registrar(Evl). VTU, Belagavi

Agenda:

1. Modifications in the Regulation pertaining to allotment of credits.
2. Review of CBCS 2016-17 Regulations
 - i. 16 OB 6.1 (iii),
 - ii. 16 OB 9.1(3)
 - iii. 16 OB 11.3
3. Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17
4. Revision of mandatory subjects like 'Management'
5. Admission to vacant seats of PG Courses
6. NCC as an Elective subject
7. Mobile Development Application as Inter disciplinary courses.
8. Revision of Research Methodology for Ph.D. Program
9. Any other matter with the permission of the chair.


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Minutes of the Meeting:

~~Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitee Prof.. Keshavamurthy, He requested Hon'ble Vice- Chancellor for further proceedings.~~

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members The Hon'ble Vice-Chancellor requested members for discussions and deliberations. After detailed deliberations the following resolutions were made.

Agenda -1 : Modifications in the Regulation pertaining to allotment of credits.

Resolution : It is resolved to teach Kannada language and Constitution of India, Professional Ethics and Human Rights during 3rd and 4th semesters with one credit each by adjusting credits of 3rd and 4th Semesters on cycle base concept i.e., 50% of branches of the Institute shall opt Kannada language in 3rd Semester and remaining 50% of branches shall opt Constitution of India, Professional Ethics and Human Rights, vice-versa in 4th Semester respectively. The scheme is enclosed (**Annexure-1**). The same is in effect from 2017-18 batch. Also Kannada language and Constitution of India, Professional Ethics and Human Rights shall be considered for the eligibility criterion prescribed for promotion.

It is also resolved that, Internal Assessment Marks in each theory course shall be the sum of marks prescribed for test and assignment. Marks prescribed for test shall be 15 and that for assignment be 05.

The Internal Assessment marks for test in a theory course shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a minimum of 15 marks and the final test marks shall be the average of three tests, proportionally reduced to a maximum of 15 marks.

The remaining 05 marks shall be awarded based on the evaluation of Assignments/Unit tests/Written Quizzes that support to cover some of the course/program outcomes. Final marks awarded shall be the sum of these two out of maximum of 20 marks.

Agenda -2

: Review of CBCS 2016-17 Regulations

- i. 16 OB 6.1 (iii),
- ~~ii. 16 OB 9.1(3) —~~
- iii. 16 OB 11.3

Resolution

- i). The regulation 16 OB 6.1 (iii) reads as, *"A student obtaining Grade "F" in a course shall be considered failed and is required to reappear in subsequent SEE. Number of attempts taken to clear a course shall be indicated in the grade cards/ transcripts."*

It is resolved to award the grade secured by the student during his/her reattempt.

- ii). The regulation 16 OB 9.1 (2 & 3) reads as,

"A student will be declared successful at the Semester-end or Programme-end only on obtaining each SGPA and CGPA is greater than or equal to 5.00, with none of the courses registered in a Semester/s remaining with "F" Grade."

"In case, the SGPA/ CGPA fall below 5.00, the student shall be permitted to appear again for SEE for required number of course/s (other than seminar and Practical) and times, subject to the provision of 16OB1.5, to make up SGPA greater than or equal to 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from The Registrar (Evaluation) to reappear in the subsequent SEE".

It is resolved to consider passing standard of SGPA/CGPA of 5.00 from the 2016-17 batch, however SGPA/CGPA falling below 5.00 cannot be considered for vertical progression, however candidate shall be declared successful by achieving final CGPA of 5.00.

Also it is resolved that, a student is allowed to reappear for maximum 4 Courses per semester i.e. maximum of 16 credits in case SGPA/CGPA falls below 5.00

- iii). The Mandatory non – credit courses for all kind of Lateral Entry students viz., Environmental Studies, Advanced mathematics III and IV , Computer Aided Engineering Drawing and Programming in C and Data structure shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.

- Agenda -3** : Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17
- Resolution** : It is resolved that, Regulations governing B.E/B.Tech under CBCS 2016-17 are in effect from 2015-16 batch.
- Agenda -4** : Revision of mandatory subjects like 'Management'.
- Resolution** : Respective Board of Studies authorized to revise the contents as per the needs by considering the proposal given by Sri Sharth Arun on Project Management Methodologies.
- Agenda -5** : Admission to vacant seats of PG Courses
- Resolution** : It is resolved that, seats remaining vacant(unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. By constituting an Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts.
- Agenda -6** : NCC as an Elective subject
- Resolution** : NCC shall be included as an open Elective subject at 5th semester level. A student can opt this as an elective subject to satisfying the prerequisites. Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi is requested to frame the modalities and syllabus as per UGC guidelines.
- Agenda -7** : Mobile Development Application as inter disciplinary courses.
- Resolution** : Mobile Development Application shall be included as an open Elective subject at 6th semester level. Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested for framing syllabus.
- Agenda -8** : Revision of Research Methodology for Ph.D. Program.
- Resolution** : Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi, is requested to revise the Research Methodology syllabus for Ph.D. Program.

Table Agenda

With the permission of the chair, the following issues taken up for discussion

Table Agenda-1 : Review and Revision of curricula once in three years.

Resolution : It is resolved to write a letter to UGC stating that, Review and Revision of curricula in the University is once in four years and two years for UG and PG Programs respectively as all UG Programs are of 4 years duration and PG of 2years duration.

Table Agenda-2 : Approval of five years integrated degree in Engineering & Technology program leading to Master of Technology (M.Tech.)

Resolution : The matter is deferred.

Table Agenda-3 : Equivalence of UG courses. As per the EC resolutions the courses are considered as equivalent except for teaching career.

| Course | Considered Equivalent to | EC Res. No. |
|-----------------------------|--------------------------|----------------------|
| Industrial Production Engg. | Mechanical Engg. | 9 dt. 4/4/2005 |
| Automobile Engg. | Mechanical Engg. | 2.9 dt. 29/5/2006 |
| Transportation Engg. | Civil Engg. | 3.2.1 dt. 15/12/2007 |
| Construction Tech. & Mgmt. | Civil Engg. | 3.2.3 dt. 6/7/2009 |
| Environmental Engg. | Civil Engg. | 3.2.2 dt. 6/7/2009 |
| Information Sc. & Engg. | Computer Science & Engg. | 2.2.2 dt. 29/7/2011 |

Apart from of these the University has also received requests for equivalence for,

1. Electronics & Instrumentation to Electronics & Communication Engg.
2. Instrumentation technology to Electronics & Communication Engg.
3. Tool Engg. (Closed during 2012-13 only two batches) to Mechanical Engg.
4. Information Sc. & Engg. to Information Technology

Resolution : Resolved to consider the request including for teaching career.

Table Agenda-4 : Proposal of inclusion of ITIL (Information Technology Infrastructure Library) Processes (for IT branches)

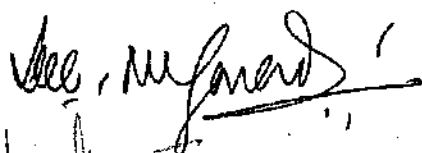
Resolution : Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested to check the details and implementation modalities.

Table Agenda-5 : Age limit for Ph.D./M.Sc. Engg. (By Research) Guide ship.

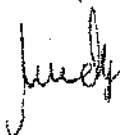
Resolution : Guide ship for Ph.D./M.Sc. Engg. (By Research) shall be allowed up to 65 (70-5) years for the faculty in service.

The Meeting concluded with thanks by the Registrar, Dr. H.N. Jagannatha Reddy, with a request to all board chairmen to finalize the Scheme for UG programs by 13th March 2017.

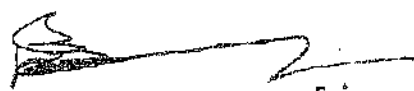
Dean:



Registrar:



Vice-Chancellor:



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| Item No.2.2.2 | Recommendations of the Joint Board of Studies meeting held on 6-3-2017 |
| | <p>The Chairman stated that the Joint Board of Studies Meetings was called on 6-03-2017 and following agenda items were discussed:</p> <ol style="list-style-type: none"> 1. Modifications in the CBCS Regulations pertaining to allotment of credits 2. Review of CBCS 2017-17 Regulations (i) 16 OB 6.1(iii) (ii) 16 OB 9.1(3) (iii) 16 OB 11.3 3. Applicability of Regulations governing B.E./B.Tech. under CBCS 2016-17 4. Revision of mandatory subjects like 'Management' 5. Admission to vacant seats of PG courses 6. NCC as an Elective subject 7. Mobile Development Application as inter disciplinary courses. 8. Revision of Research Methodology for Ph.D. Program. 9. Any other matter with the permission of the Chair <p>The recommendations of the Joint Board of Studies on the above agenda points are placed before the Executive Council for consideration and approval. The subject was placed before the Academic Senate and the Academic Senate has recommended to approve the recommendations of Joint Board of Studies with certain modifications. The Executive Council approved the same.</p> |
| | <p>Resolution No.2.2.2 The Executive Council resolved to accept the recommendations of the Academic Senate on the proceedings of JBOS, as under:</p> <ul style="list-style-type: none"> • Members suggested revision in the procedure adopted in conducting IA and award of IA marks which is affecting the career of VTU students as compared to the students of Autonomous colleges. The Chairman assured that it will be taken care at the next revision of syllabus under CBCS. • Academic Senate appreciated the stand taken by the University in filling the vacant seats of PG courses, after the completion of PG Admission Process by KEA • Agenda and resolution No.7 to be read as <i>Mobile Application Development</i> instead of Mobile Development Application. • The Dean has come out with the revised Research Methodology Syllabus for Ph.D. programme which will be common to all the branches of Engineering and Management Studies. The Academic Senate recommended to adopt the same. <p>Further, pertaining to filling the vacant seats of PG Courses after the completion of PG Admission Process by KEA, the Executive Council resolved to write a letter to the Government regarding the procedure being adopted.</p> <p>Further, the Executive Council resolved to add to the CBCS 2016-17 Regulations 16 OB 11.3, that 'the candidate shall pass the required Bridge Courses of the UG Programme before the commencement of 7th semester.'</p> <p>Further, The Executive Council resolved to constitute an Expert Committee to finalise the Regulations governing CBCS, pertaining to Vertical Progression of the student during the course.</p> |

Proceedings of the Joint BoS meeting held on 13th

JULY


2017 at VTU, Regional Office, Bengaluru

Members Present:

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. C. M. Kalleshappa (officiated for Chairman), BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11. Dr. U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
12. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
13. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
14. Mr. Dinesh Y N (officiated for Chairman), Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
16. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
17. Prof. Keshava Murthy, Special Invitee.
18. Dr. N. Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi and Chief Librarian, BMS College of Engineering, Bengaluru
19. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi

Agenda:

1. Finalization of Scheme and Syllabus for 5th to 8th semesters.
2. Finalization of Open Electives.
3. Proposal from CL InfoTech for Industry Aligned Program for VTU Students.
4. Eligibility criteria for admission to M.Tech in Master of Engineering Management Program
5. Proposal from GoK for start of Online Courses under SWAYAM MOOCs.
6. Proposal from PG Students for uploading Thesis prior to exams.
7. Preparation of Model Question Papers.
8. Equivalent subjects for students entering into CBCS from Non-CBCS scheme.
9. Review of PG Theory and Internal Assessment marks.
10. Nomenclature of Instrumentation Technology to Electronics & Instrumentation as per AICTE's nomenclature.
11. Any other matter with the permission of the chair.

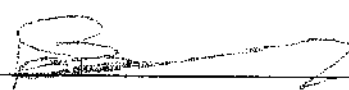

24.7.17

Minutes of the Meeting:


Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitee Prof. Keshava Murthy, He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for discussions and deliberations. After detailed deliberations the following resolutions were made.

| | | |
|-------------------|----------|---|
| Agenda -1 | : | Finalization of Scheme and Syllabus for 5th to 8th Semesters. |
| Resolution | : | <p>The Scheme of 5th to 8th Semesters were approved with the following changes</p> <ul style="list-style-type: none">a) The consolidated list of open elective shall prepared such that student of any branch can opt it.b) The syllabus and title of course for Management and Entrepreneurship at 5th and 6th semester with code 15XX51/15XX61 i.e., shall be changed in line with the respective branches.c) At the 7th Semester level the course code 15XXP78 shall be read as Project Phase-1 + Project Seminar instead of Project Phase-1+ Seminar with duration of 3 hours/ week.d) At the 8th Semester level the seminar under the course code 15XXS86 shall be on topics of current trends in Engineering and Technology. |
| Agenda -2 | : | Finalization of Open Elective |
| Resolution | : | <p>It was resolved that the open elective shall be offered at the 5th and 6th semester level, and can be offered to all B.E Programmes (Except B.Arch). All the boards of studies have to submit the list open electives to be offered in respect their programme. The consolidated list will be made available to students to opt the open elective. The student is allowed to opt an open elective if and the he/she have not studied or will be studying in the higher semesters courses having similar syllabus up to 80% extent. The students may be advised to select an open elective of their interest if they have pre-requisites knowledge.</p> <p>The colleges shall have a Programme Coordinator and Advisors to help the students in opting the open elective and also the colleges conduct a orientation programme to students on Regulations of the University. It also resolved to submit the 5th & 6th Semester Scheme & Syllabus with open elective on or</p> |


24.7.17

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| | | before 20 th July 2017 for feedback and final scheme and syllabus shall be submitted on or before 28 th July 2017. |
| | | The 7 th and 8 th Scheme & Syllabus should be submitted on or before 5 th August 2017. |
| | | It is also resolved to conduct course registration at each semester level. |
| Agenda -3 | : | Proposal from CL InfoTech for Industry Aligned Program for VTU Students |
| Resolution | : | It is resolved that, the colleges can opt for such Add-on courses at their individual college level. |
| Agenda -4 | : | Eligibility criteria for admission to M.Tech in Master of Engineering Management Program |
| Resolution | : | It is resolved to consider all the branches B.E/ B.Tech. are eligible for the admission to M.Tech., in Master of Engineering Management Program. |
| Agenda -5 | : | Proposal from GoK for start of Online Courses under SWAYAM MOOCs. |
| Resolution | : | It is resolved that, the colleges shall encourage students to make use of MOOCs and University will issue the circular w.r.t. to SWAYAM (MOOCs) to the colleges to create awareness of the programme and also they may be advised create facility for the implementation. Pertaining to the credits allocation for these courses will be taken up in the next revision of scheme & syllabus. |
| Agenda -6 | : | Proposal from PG Students for uploading Thesis prior to exams. |
| Resolution | : | It is resolved that, there shall be uniformity in uploading the thesis of all PG Courses. Hence, it resolved to upload the thesis and to get it valued but the announcement of results will fall in line with the regulation. |
| Agenda -7 | : | Preparation of Model Question Papers. |
| Resolution | : | It is resolved that, the Boards of various programmes have to submit the three sets of model question papers before 16 th August 2017. |
| Agenda -8 | : | Equivalent Subjects for students entering into CBCS from Non-CBCS Scheme |
| Resolution | : | It is resolved that, the colleges have to conduct parallel classes for the Non-CBCS students who become eligible for admission to 5 th Semester. It also resolved that the members to provide equivalent subjects of their respective boards for the 3 rd and 4 th semester students, who entre from Non-CBCS Scheme to CBCS Scheme. |
| Agenda-9 | : | Review of PG Theory and Internal Assessment Marks |
| Resolution | : | Since 'E' is awarded as pass grade with marks ranging from ≥ 40 to ≤ 45 , it is resolved that, the student shall secure minimum 50% of the maximum marks in Internal Assessment Marks and minimum 40% of the maximum marks in Theory with an aggregate of in 42% of CIE and SEE. It is also resolved to redefine the marks range for 'E' grade as ≥ 42 to ≤ 45 for PG programmes only. |


 24.7.17

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| Agenda-10 | : | Nomenclature of Instrumentation Technology to Electronics & Instrumentation as per AICTE's nomenclature. |
| Resolution | : | It is resolved to write a letter to AICTE with respect to the nomenclature of the courses. |

Table Agenda

With the permission of the chair, the following issues taken up for discussion

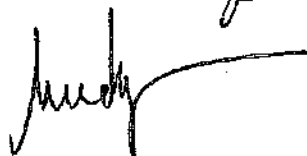
| | | |
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| Table Agenda-1 | : | Regarding institution of B-Plan course |
| Resolution | : | It is resolved to retain the syllabus and course code for similar subjects in B.Architecture and B.Plan and also to write a letter to Council of Architecture regarding the institute of B.Plan course in the university and to invite a Industry person as Special Invitee to the Board of Studies. |
| Table Agenda-2 | : | Regarding institution of Aerospace Engineering |
| Resolution | : | It is resolved to retain the syllabus and course code for similar subjects in Aerospace Engineering, Aeronautical Engineering and Mechanical Engineering. |
| Table Agenda-3 | : | VTU Aerospace Center of Excellence with Dassault Systems |
| Resolution | : | It is resolved to consider the training program conducted by Dassault Systems under VTU Aerospace Center of Excellence as Internship Program. |

The Meeting concluded with vote of thanks by the Chair.

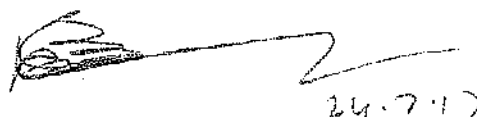
Dean:



Registrar:



Vice-Chancellor:



24.7.17

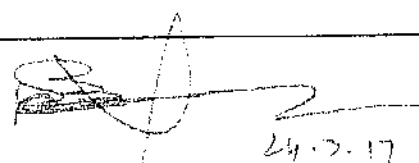
Proceedings of the Joint BoS meeting held on 13th March 2017 at VTU, Regional Office, Bengaluru

Members Present:

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. C. M. Kalleshappa (officiated for Chairman), BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
12. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
13. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
14. Mr. Dinesh Y N(officiated for Chairman),Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
16. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
17. Prof.Keshava Murthy, Special Invitee.
18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi

Agenda:

1. Finalization of Scheme and Syllabus for 5th to 8th semesters.
2. Finalization of Open Electives.
3. Proposal from CL InfoTech for Industry Aligned Program for VTU Students.
4. Eligibility criteria for admission to M.Tech in Master of Engineering Management Program
5. Proposal from GoK for start of Online Courses under SWAYAM MOOCs.
6. Proposal from PG Students for uploading Thesis prior to exams.
7. Preparation of Model Question Papers.
8. Equivalent subjects for students entering into CBCS from Non-CBCS scheme.
9. Review of PG Theory and Internal Assessment marks.
10. Nomenclature of Instrumentation Technology to Electronics & Instrumentation as per AICTE's nomenclature.
11. Any other matter with the permission of the chair.


24.7.17

Proceedings of the Joint BoS meeting held on 8th September 2017 at VTU, Belagavi

Members Present:

- 1 Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi & Principal, Nitte Meenakshi Inst. of Technology, Bengaluru.
- 2 Prof. Keshava Murthy, Dept. of E & E, Dr. Ambedkar Institute of Technology, Bengaluru.- Special Invitee
- 3 Dr. D.S.Suresh, Principal, Channabasaveshwara Institute of Technology, Gubbi - Special Invitee
- 4 Dr. K.Ramachandra, Chairman, BOS in Aeronautical Engg. of VTU, Belagavi, Retd. Director, GTRE, 600/1, 10th Cross, 7th Block, West Jayanagara, Bengaluru-560082
- 5 Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi & Professor, RV School of Architecture, Bengaluru.
- 6 Dr. Nandkishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi & Professor, Dept. of Automobile, Guru Nanak Dev Engineering College, Bidar.
- 7 Dr. Basavarajappa, (Officiating On behalf of Dr. A.T. Eswar) BOS in Basic Sciences of VTU, Belagavi
- 8 Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi & Professor, Acharya Institute of Technology, Bengaluru.
- 9 Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi & Professor, Dept. of Chemical Engg, Bapuji Institute of Engineering & Technology, Davangere.
- 10 Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi & Professor & Head, Dept. of Civil Engg., Bangalore Institute of Technology, Bengaluru.
- 11 Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi.
- 12 Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi & Principal, JNN College of Engineering, Shivamogga.
- 13 Dr. Shoba R Savanur, Chairman, BOS in E & E of VTU, Belagavi & Professor, Dept. of EEE, BLDEA's VP Dr. PG Halkatti College of Engineering, Vijayapur
- 14 Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi & Professor, Dept. of E & IE, University B.D.T. College of Engineering, DAVANGERE.
- 15 Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
- 16 Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi and Chief Librarian, BMS College of Engineering, Bengaluru
- 17 Dr. Anandakumar C. S , (Officiating On behalf of Dr. Dinesh Rangappa)Chairman, BOS in Nano Technology of VTU, Belagavi & Professor, Dept. of Nano Technology, VTU, PG Centre, Muddenahalli.

Agenda:

1. Review of Non-CBCS and CBCS students' grievances
2. Review of B.E./B.Tech. Regulations of 2017-18 pertaining to SEE and CIE Marks
3. Change in course code in the Scheme and Syllabus of 2017-18 admitted batches and onwards
4. Submission of 6th to 8th semester Scheme and Syllabus
5. Constitution of Board under Humanities
6. Any other matter with the permission of the chair

Minutes of the Meeting:

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitees. He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and briefed about the agenda of the meeting and requested for deliberations. After detailed deliberations the following resolutions are made:

| | | |
|-------------------|---|--|
| Agenda -1 | : | Review of Non-CBCS and CBCS student's grievance |
| Preamble | : | CBCS Scheme is implemented from year 2015-16. The scheme of teaching and Examination is different from Non-CBCS Scheme. As per the data available from the examination section, they are around 5,326 & 19,800 students who are not eligible take admission to 5th & 7th semester respectively. The committee constituted to discuss about continuation of 2010 scheme for 5th semester onwards has proposed to conduct parallel classes. |
| Resolution | : | In view of the above it is resolved to permit the Non-CBCS scheme students to attend classes to complete the course work and to satisfy the attendance and Internal Assessment criteria as per regulations applicable to them. However, they are not permitted to appear for the university examinations till they become eligible as per the regulations. Also they have to complete the programme as per the OB6.2. The students of Non-CBCS scheme who are to attend exit scheme classes have to execute an affidavit to the effect that they adhere to the decisions of the university. |
| Agenda -2 | : | Review of B.E./B.Tech. Regulations of 2017-18 pertaining to SEE and CIE Marks |
| Resolution | : | It is resolved to modify the SEE and CIE marks from 80:20 ratio to 60:40 and to incorporate the change into regulations and scheme. |
| Agenda -3 | : | Change in course code in the Scheme and Syllabus of 2017-18 admitted batches and onwards |
| Resolution | : | It is resolved to change course code from 15XXXXXX to 17XXXXXX retaining the content of each course syllabus of 2015-16 scheme. |
| Agenda -4 | : | Submission of 6th to 8th semester Scheme and Syllabus |
| Resolution | : | It is resolved to submit the scheme & syllabus of 6 th to 8 th Semester on or before 16 th September 2017 and the university to receive the feedback before 22 nd September 2017. The Final Submission of Scheme & Syllabus to be sent to the university on or before 28 th September 2017. The last date for submission of Scheme & Syllabus 2017-18 admitted batch is 30 th October 2017. |
| Agenda -5 | : | Constitution of Board under Humanities |
| Resolution | : | It is resolved to constitute the Board in Humanities. |

Table Agenda

With the permission of the chair, the following issues taken up for discussion

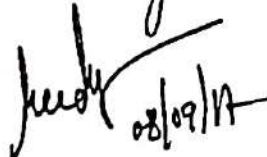
| | | |
|----------------|---|--|
| Table Agenda-1 | : | Proceedings of the committee to discuss continuation of 2010 scheme from 5 th Semester onwards. |
| Resolution | : | It is resolved to accept the recommendations of the committee. |
| Table Agenda-2 | : | Requisition to Schedule project phases in 6 th & 7 th Semester of B.E. programme for 2015-16 scheme. |
| Resolution | : | The proposal is not accepted. |
| Table Agenda-3 | : | PG Regulations |
| Resolution | : | It is resolved to accept the regulations. |
| Table Agenda-4 | : | Question paper printing for 2015-16 and 2017-18 schemes |
| Resolution | : | It is resolved to print separate Question papers for 2015-16 and 2017-18 schemes |
| Table Agenda-5 | : | Ambiguity in the B.E./B.Tech. Regulations of 2017-18 with respect to consideration of mandatory non-credit courses for promotion and eligibility |
| Resolution | : | It is resolved that students shall pass in of mandatory non-credit courses for award of degree. |

The Meeting concluded with vote of thanks by the Chair.

Dean:


 08/09/17

Registrar:

 08/09/17

Vice-Chancellor:


8.9.17


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Dr. H. N. Jagannatha Reddy, BE, ME, Ph.D.

REGISTRAR

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref No. VTU/Aca/A12/2017-18/ 11721

Date: 17 MAR 2018

MEETING NOTICE

Sub: Meeting of Joint Board of Studies.

Ref: Hon'ble Vice Chancellor's Approval dtd: 17.03.2018

With reference to the above subject, the Joint Board of Studies Meeting is convened on 27th March 2018 at 11.00 a.m. at Executive Council Meeting Hall 'Jnana Sangama', VTU, Belagavi to discuss on the following Agenda:

AGENDA:

1. Finalisation of 1st year scheme for 2018-19 UG and PG curriculum.
2. Guidelines for framing the regulations for 2018-19 scheme.
3. Introduction of Bachelor of Vocation as per AICTE syllabus and guidelines.
4. Any other matter with permission of the chair.

The Dean, Faculty of Engineering, VTU & Chairmen of all BoS are requested to make it convenient to attend the meeting. TA and Sitting Fee will be borne by the University to the members attending the meeting as per the VTU norms.

Sd/-
REGISTRAR

To,

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi & Principal, Nitte Meenakshi Inst. of Technology, Bengaluru.
2. Prof. V. Keshava Murthy, Special Invitee, Dept. of E & E, Dr. Ambedkar Institute of Technology, Bengaluru.
3. Dr. D. S. Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi
4. Dr. K. Ramachandra BOS in Aeronautical Engg. of VTU, Belagavi, Retd Director, GTRE 600/1, 10th Cross, 7th Block, West Jayanagara, Bengaluru-560082
5. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi & Professor, RV School of Architecture, Bengaluru.
7. Dr. Nandkishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi & Professor, Dept. of Automobile, Guru Nanak Dev Engineering College, Bidar.
8. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi & Professor, Dept. of Mathematics, GSSS Institute of Engineering & Technology, Mysuru.
9. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi & Professor, Acharya Institute of Technology, Bengaluru.
10. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi & Professor, Dept. of Chemical Engg, Bapuji Institute of Engineering & Technology, Davangere.
11. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi & Professor & Head, Dept. of Civil Engg., Bangalore Institute of Technology, Bengaluru.
12. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi.
13. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi & Principal, JNN College of Engineering, Shivamogga.
14. Dr. Shoba R Savanur, Chairman, BOS in E & E of VTU, Belagavi & Professor, BLDEA'S VP Dr.P G Haikatti College of Engineering, Vijayapur
15. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi & Dept. of Industrial Engineering & Management, Bangalore Institute of Technology, K.R. Road, V.V. Puram, Bengaluru.
16. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi & Professor, Dept. of E & IE, University B.D.T. College of Engineering, DAVANGERE.
17. Dr. U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi & Professor, RNS Institute of Technology, Bengaluru.
18. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi & Principal, Global Institute of Technology, Bengaluru.
19. Dr. Murugesha Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belgaum & Department of Textile Engineering, Bapuji Institute of Engineering & Technology, Sharnoor Road, Davangere.
20. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
21. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi & Professor, Dept. of Nano Technology, VTU, PG Centre, Muddenahalli.
22. Dr. N. Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi & Chief Librarian, BMS College of Engineering, Bengaluru.

REGISTRAR

Copy to:

- 1) The Vice-Chancellor, through the secretary to V.C., VTU, Belagavi for information.
- 2) The Finance Officer, VTU, Belagavi, for information.
- 3) The Registrar's Office, VTU, Belagavi, for information.
- 4) The Registrar (Evaluation), VTU, Belagavi, with request to attend the meeting.
- 5) The Special Officer, Academic Section, VTU, Belagavi for information.
- 6) The Resident Engineer, VTU, Belagavi to make necessary arrangements for the meeting including hospitality.

- Note: 1. All the Members and Special Invitees are requested to make their own arrangements towards transportation to attend the meeting.
2. All the Members and Special Invitees are requested to produce Onward and Return Journey Tickets/Vouchers for the disbursement of travelling allowances.
3. The TA will be disbursed as per KCSR/Government Circulars and orders only.



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ :

ಪುಟ ಸಂಖ್ಯೆ :1.....

ಕಡತದ ಸಂ. :

ದಿನಾಂಕ : 17/03/2018

ವಿಭಾಗ

ವಿಷಯ : JBOS Meeting Items Approval - reg

Academic

Submitted:

It is proposed to conduct the **Joint Board of Studies Meeting** with the following agenda:

- Finalization of 1st year Scheme for 2018-19 curriculum
- Guidelines for framing the Regulations for 2018-19 scheme.
- Introduction of Bachelor of Vocation as per AICTE Syllabus and guidelines

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

for directions 17/3/18

Special Officer: For kind directions 17/3/18

Registrar: For kind approval 17/03/18

9 MAR 2018/1) : 6563 Date 27.3.18 at Belagavi


**Joint Board of Studies Meeting held on 27th March 2018 at
Executive Council Meeting Hall, Belagavi at 11.00am**

Members Present:

| | |
|----|---|
| 1 | Dr. Karisiddappa, Chairman JBoS and Hon'ble Vice-Chancellor, VTU, Belagavi. |
| 2 | Dr. H. C. Nagaraj, Dean Faculty of Engineering VTU, Belagavi & Principal, Nitte Meenakshi Institute of Technology, Bengaluru. |
| 3 | Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi. |
| 4 | Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi. |
| 5 | Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engineering of VTU, Belagavi. |
| 6 | Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi. |
| 7 | Dr. Aswath M. U., Chairman, BOS in Civil Engineering of VTU, Belagavi. |
| 8 | Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi. |
| 9 | Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi. |
| 10 | Dr. Mallikarjun S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi. |
| 11 | Dr.U. Bhojanna, Chairman, BOS in MBA of VTU, Belagavi. |
| 12 | Dr. R. P. Reddy, Chairman, BOS in Mechanical Engineering of VTU, Belagavi. |
| 13 | Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi. |
| 14 | Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi. |
| 15 | Dr. Nandakishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi. |
| 16 | Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi. |
| 17 | Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi. |
| 18 | Dr. H.S. Dayananda, Chairman, BOS Humanities of VTU, Belagavi. |
| 19 | Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi. |
| 20 | Dr. H.N. Jagannatha Reddy, Member Secretary JBoS and Registrar, VTU, Belagavi. |
| 21 | Prof.V.Keshava Murthy, Special Invitee, Department of E&E, Dr.Ambedkar Institute of Technology, Bengaluru. |
| 22 | Dr. R Prabhakara, Former Prof and Head MSRIT, Bengaluru. |
| 23 | Dr. C N Chandrappa , Special Invitee, Acharya Institute of Technology, Bengaluru |
| 24 | Dr Vaman Gudi , Special Invitee, Dept of E&C, Cambridge Institute of Technology, Bengaluru |

Members on Leave:

| | |
|---|---|
| 1 | Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi. |
| 2 | Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi. |


PRINCIPAL
 Alva's Institute of Engg. & Technology,
 Mijar, MOOBBIDRI - 574 225, D.K

Agenda

1. Finalization of 1st year Scheme for 2018-19 UG and PG Curriculum and Timeline for submission of Syllabus is enclosed.
2. Guidelines for Framing the regulations for 2018-19 Scheme (The 2017-18 Scheme Regulation is placed on file for reference)
3. Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines
4. Any other matter with the permission of the chair.

Table Agenda:

1. Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dtd: 05.03.2018).
2. Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate D in Industrial Management-PGDISM for IISM College (University has a MoU with this college for the award of degree).
3. The Eligibility Criteria for the admissions of MBA, MCA, ME and M.Tech and also the Criteria for the candidates passed through Open University/ Correspondence Course.

Minutes of the Meeting:

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, Chairpersons of BOS and also Special invitees and presented the salient features of the model AICTE curriculum along with

- Proceedings of the Joint BoS meeting held on 14th February 2018 at VTU, Regional Office, Bengaluru.
- Proceedings of the One Day Workshop on "AICTE Model Curriculum" for UG and PG Programs held on 12th March 2018 at BMSCE, Bengaluru.

He requested the Honorable Vice-Chancellor for the further proceedings. Honorable Vice-Chancellor, Dr. Karisiddappa welcomed and requested all the chairpersons of BoS and Special Invitees for their active participation, discussions and fruitful conclusions. The outcomes of the deliberations in the form of resolutions are listed against each agenda.

| Agenda -1 | : | Finalization of 1st Year scheme for 2018-19 UG and PG curriculum | | | | | | | | |
|--|----------------|---|--|--|-----------------|----------------|---|-----|-------------------|-----|
| Resolution | | Revise the scheme of Teaching and Examination, and syllabus for UG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following. | | | | | | | | |
| Agenda -1 | : | A. UG Programs | | | | | | | | |
| Resolution | | (UG.a) : UG Programs Credits | | | | | | | | |
| (continued) | | <table border="1"><tr><th colspan="2">Table.1 Credits for the UG Programs starting from the academic year 2018 - 19</th></tr><tr><th>Programs</th><th>Credits</th></tr><tr><td>B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years)</td><td>175</td></tr><tr><td>B. Arch (5 years)</td><td>260</td></tr></table> | Table.1 Credits for the UG Programs starting from the academic year 2018 - 19 | | Programs | Credits | B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years) | 175 | B. Arch (5 years) | 260 |
| Table.1 Credits for the UG Programs starting from the academic year 2018 - 19 | | | | | | | | | | |
| Programs | Credits | | | | | | | | | |
| B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years) | 175 | | | | | | | | | |
| B. Arch (5 years) | 260 | | | | | | | | | |
| | | (UG.b): Three weeks mandatory Induction Programme | | | | | | | | |
| | | (UG.c): Duration of I semester to be 18 weeks. The exact duration shall be intimated by Registrar (Evaluation) with reference to the period required for conducting of University examinations. | | | | | | | | |
| | | (UG.d): Period of vacation after I semester University examination to be decided with reference (c). Preferable to reduce the present vacation period by 2 weeks. | | | | | | | | |
| | | (UG.e): The credits for I and II semesters to be around 19 and 21 respectively. | | | | | | | | |
| | | (UG.f): <ul style="list-style-type: none">i. Formulate the syllabus of Physics, Chemistry and Mathematics that are appropriate for all the programs with due consideration to the PUC and XII Standard syllabi.ii. Dr.A. T. Eswara, Chairman of Basic Science Board of Studies to convene a meeting of Chairpersons of BOS in EEE, ECE, Mechanical Engineering, Civil Engineering and Humanities on or before 10th April 2018 to finalize the syllabus of Physics, Chemistry and Mathematics. | | | | | | | | |
| | | (UG.g) : The course, Engineering Graphics be shifted to 1 st year with sketching compulsory. | | | | | | | | |
| | | (UG.h) : The mandatory courses Constitution of India and Professional Ethics, Environmental Studies, and Kannada shall be offered in III & IV semesters. | | | | | | | | |
| | | (UG.i) : Number of courses from III to VI semesters to be <ul style="list-style-type: none">• 06 theory and 02 laboratories for Engineering programs and• 05 theory and 03 laboratories for Textile programme. | | | | | | | | |

**Agenda -1
Resolution
(continued)**

(UG.j) : The UG, BE/B.Tech. to have

- one mandatory internship and
- Internship or mini – project during VI semester.

(UG.k) :

- (a) The mandatory non – credit courses Diploma Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE/B.Tech programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for University examination.
- (b) The mandatory non-credit courses Diploma Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE/B.Tech programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester.

(UG.l) : Chairpersons of BOS to organize workshops in their respective field of specialization to debate and evolve, based on the outcome, the scheme of Teaching and Examination for all the semesters.

(UG.m) : The academic section to issue templates for tentative UG scheme of teaching and examination.

B. PG Programs

Revise the scheme of Teaching and Examination, and syllabus for PG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following.

(PG.a) : PG Programs Credits

| Credits for the PG Programs starting from the academic year 2018 - 19 | |
|---|---------|
| Programs | Credits |
| M.Tech. | 72 |
| MBA | 102 |
| MCA | 125 |
| M.Arch. | 100 |

(PG.b) : The ratio of evaluation of SEE and CIE be 60:40.

(PG.c) : Courses for M.Tech programs shall be

- 05theory, 01 laboratory and Technical seminar for I semester.
- 05theory, 01 laboratory and mini- project/internship for II semester.
- 02theory and mini- project/internship for III semester.
- Dissertation and Technical seminar for IV semester.

| Agenda -1 Resolution (continued) | | (PG.d) : The academic section to issue templates for tentative PG scheme of teaching and examination. C. Calendar of events for different activities of UG and PG Programs. | | | | | | | | | | | | | | | | |
|--|---|--|--------------------|--|-------------|--------------------|---|-----------------------------|--|---|---|--|---|---------------------------|--|---------------------------|---|--|
| | | <table><tr><th colspan="2">Calendar of events</th></tr><tr><th>Particulars</th><th>Last Date/Duration</th></tr><tr><td>Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs.</td><td>19th April 2018</td></tr><tr><td>Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback</td><td>21th April 2018 to 30th April 2018 for Feedback</td></tr><tr><td>Mandatory workshop to be conduct on Scheme(2018-19) by each BOS</td><td>Between 1st May 2018 and 20th May 2018</td></tr><tr><td>Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University(by E-Mail)</td><td>23rd May 2018</td></tr><tr><td>Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website.</td><td>25th May 2018</td></tr><tr><td>Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval.</td><td>Last week of May 2018 or First week of June 2018</td></tr></table> | Calendar of events | | Particulars | Last Date/Duration | Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs. | 19 th April 2018 | Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback | 21 th April 2018 to 30 th April 2018 for Feedback | Mandatory workshop to be conduct on Scheme(2018-19) by each BOS | Between 1 st May 2018 and 20 th May 2018 | Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University(by E-Mail) | 23 rd May 2018 | Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website. | 25 th May 2018 | Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval. | Last week of May 2018 or First week of June 2018 |
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| Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University(by E-Mail) | 23 rd May 2018 | | | | | | | | | | | | | | | | | |
| Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website. | 25 th May 2018 | | | | | | | | | | | | | | | | | |
| Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval. | Last week of May 2018 or First week of June 2018 | | | | | | | | | | | | | | | | | |
| Agenda -2 | : | Guidelines for framing the regulations for 2018-19 schemes. | | | | | | | | | | | | | | | | |
| Resolution | | <ul style="list-style-type: none">• Frame the VTU Regulations 2018-19 of different programs by incorporating appropriate changes in the existing Regulations 2017-18.• The framing of VTU Regulations 2018-19 to be completed by Prof.V.Keshava Murthy, Dr. R. Parahakara and Sri. Vaman Gudi, all Special Invitees to JBOS. | | | | | | | | | | | | | | | | |
| Agenda -3 | : | Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines. | | | | | | | | | | | | | | | | |
| Resolution | : | a. A committee under the chairmanship of Dean, Faculty of Engineering to submit a report detailing the procedure for the institution of Bachelors of Vocation at VTU and other affiliated institutions. | | | | | | | | | | | | | | | | |

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| Agenda -3 Resolution (continued) | <p>b. Amend a clause to VTU statutes in respect of institution of Bachelors of Vocation programme.</p> <p>c. Seek concurrence from Government of Karnataka with respect to institution of Bachelors of Vocation programme, fees structure etc.</p> |
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Table Agenda

With the permission of the chair, the following issues were taken up for discussion

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| Table Agenda-1 | : Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dated 05.03.2018). |
| Resolution | : Dr. H.S. Dayananda , Chairman , BOS Humanities of VTU, Belagavi to submit a report about the feasibility of introducing the above said course at the earliest. |
| Table Agenda-2 | : Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate Diploma in Industrial Management-PGDISM offered at IISM College (University has a MoU with this college for the award of degree). |
| Resolution | : Recommended to permit the M.Sc and B.Sc Graduates for the admission to Post Graduate Diploma in Industrial safety Management-PGDISM offered at IISM College (University has a MoU as an extension center with this college for the award of Postgraduate Diploma). |
| Table Agenda-3 | : The Eligibility Criteria for the admissions to MBA, MCA, and M.Tech and also the Criteria for the candidates who have passed through Open University/ Correspondence Course. |
| Resolution | : Respective BOS chairpersons to submit the eligibility criteria for admission to the concerned Programme as per UGC/AICTE norms by 05 th April to Registrar, VTU for on word submission to Karnataka Examination Authority, Bengaluru. |

The Meeting concluded with thanks by the chair.


Registrar


Vice-Chancellor



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ :

ಪುಟ ಸಂಖ್ಯೆ :1.....

ಕಡತದ ಸಂ. :

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

Academic

ವಿಷಯ : JBOS Meeting Items Approval - reg

Submitted:

It is proposed to conduct the **Joint Board of Studies**

Meeting with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
- Review of Model Curriculum for UG Programme Designed by AICTE.
- Review & Implementation of Model Curriculum for PG Programme Designed by AICTE from 2018-19.
- Finalization of 3rd to 8th Semester Syllabus for 2017-18 Scheme
- Regulations and Scheme to be followed for 2016-17 batch students in case of re-admission/Eligibility to first year or higher semester at later stage.
 - a) These Students are governed by 2015-16 regulation and scheme, but currently 2017-18 scheme is in place or first year.

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

01/02/18
01/2/18

SO: Submitted for kind directions & orders - *01/2/18*

Registers! For kind approval *01/02/18*
[dt 14/02/18 @ 11 AM at Blue Ro]

VL):

Approved to conduct on *14.2.18* at *Blue Ro.*
1.2.18



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ :

ಪುಟ ಸಂಖ್ಯೆ :1.....

ಕಡತದ ಸಂ. :

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

ವಿಷಯ : ~~Approval for inclusion of some additional names in the organizing committee for JAGRUTI- A Techno-Educative-Mela by VTU at Bengaluru & Hubballi - reg~~
~~Permissions to conduct JBoS. ...~~

Academic

Submitted:

It is proposed to conduct the **Joint Board of Studies**

Meeting with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
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 - a) These Students are governed by 2015-16 regulation and scheme, but currently 2017-18 scheme is in place or first year.

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

12/2/18

Special Officer : submitted for kind orders 17/2/18

leg. for kind approval 17/2/18
 [dtd 14/02/18 @ 11 AM, Blore Ro]

**Proceedings of the Joint BoS meeting held on 14th February 2018 at VTU, Regional Office,
Bengaluru**

Members Present:

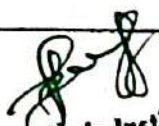
| |
|--|
| 1. Prof.V.Keshava Murthy, Special Invitee, Dept., of E&E, Dr.Ambedkar Institute of Technology, Bengaluru. |
| 2. Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi |
| 3. Prof.Vaman B Gudi, Special Invitee, Professor, Dept., of E&C , Cambridge Institute of Technology, Bengaluru |
| 4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi. |
| 5. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi. |
| 6. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi. |
| 7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi. |
| 8. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi. |
| 9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi. |
| 10. Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi. |
| 11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi. |
| 12. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi. |
| 13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi. |
| 14. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi |
| 15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi. |
| 16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi. |
| 17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi. |
| 18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi |
| 19. Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi |
| 20. Dr. Sateesh Annigeri, Registrar (Evaluation), VTU, Belagavi |

Agenda:

1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.
2. Review & Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19.
3. Review of Model Curriculum for UG Programme designed by AICTE.
4. Finalization of 3rd to 8th Semester Syllabus for 2017-18 Scheme.
5. Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.
6. Any other matter with the permission of the chair.

Table Agenda:

1. An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.
2. Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended-2014.
3. To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19
4. Number of ranks to be limited to 50% or less for programmes offered in only one Institution.
5. Providing Subject wise University Aggregate Results.
6. Clarification regarding Internship.
7. Formulation of Modslitles/Guidellines for UG Internship (2015-16 Scheme).


PRINCIPAL
Alva's Institute of Engg. & Techno-
Moor. MOODBIDRI - 574 225, -

Minutes of the Meeting:

Dr. H.N. Jagannatha Reddy, Registrar welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, all the Chairmen of Board of Studies and also Special invitees Prof. V. Keshava Murthy and Dr. D.S. Suresh. He requested the Hon'ble Vice-Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for active discussions as the agenda items. After detailed deliberations, the following resolutions were made.

| Agenda -1 & 2 | : | 1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19. 2. Review & Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|-------|----------|--------------------|---|---|----|---|-----------------------|----|---|---|----|---|---------------------------|----|---|--|----|---|--|----|---|---|----|----------------------|--|------------|
| Resolution | : | (a) Recommended to revise the scheme and syllabus of PG programs for the academic year 2018-19 in line with AICTE model curriculum with following recommendations: <ol style="list-style-type: none">1. Marks division for CIE and SEE to be in the ratio 40:60.2. Programme credits for the award of degree:<ul style="list-style-type: none">➤ M.Tech. - 72➤ MBA - 102➤ MCA - 125➤ M. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agenda -3 | : | 3. Review of Model Curriculum for UG Programme designed by AICTE. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | : | (a) Recommended to revise the UG BE/B.Tech programme scheme of Teaching and Examination, and Syllabus in line with AICTE model curriculum and proposed to implement the same from the academic year 2018-19 with the following recommendations: <ol style="list-style-type: none">1. Conduct Three weeks mandatory Induction Programme.2. Prepare the UG BE/B.Tech programme scheme of Teaching and Examination with the following structure:<table><tr><th>SI No</th><th>Category</th><th>Prescribed credits</th></tr><tr><td>1</td><td>Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]</td><td>07</td></tr><tr><td>2</td><td>Basic Science courses</td><td>25</td></tr><tr><td>3</td><td>Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,</td><td>24</td></tr><tr><td>4</td><td>Professional core courses</td><td>80</td></tr><tr><td>5</td><td>Professional Elective courses relevant to chosen specialization/branch</td><td>15</td></tr><tr><td>6</td><td>Open subjects – Electives from other technical and /or emerging subjects</td><td>09</td></tr><tr><td>7</td><td>Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]</td><td>15</td></tr><tr><td colspan="2">Total credits</td><td>175</td></tr></table>3. Academic Section to provide Templates for tentative scheme of teaching and evaluation as decided in the JBOS.4. The respective Board of Studies to organize workshop/s regarding proposed AICTE model curriculum and to prepare the model | SI No | Category | Prescribed credits | 1 | Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.] | 07 | 2 | Basic Science courses | 25 | 3 | Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc., | 24 | 4 | Professional core courses | 80 | 5 | Professional Elective courses relevant to chosen specialization/branch | 15 | 6 | Open subjects – Electives from other technical and /or emerging subjects | 09 | 7 | Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits] | 15 | Total credits | | 175 |
| SI No | Category | Prescribed credits | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.] | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Basic Science courses | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc., | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Professional core courses | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Professional Elective courses relevant to chosen specialization/branch | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Open subjects – Electives from other technical and /or emerging subjects | 09 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits] | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total credits | | 175 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | <p>scheme of teaching and examination based on the outcome of the workshop/s.</p> <p>5. It was proposed to conduct one day workshop to all the Chairmen & Members, Board of Studies on AICTE Model Curriculum.</p> <p>6. Call for a meeting of chair persons of Basic Sciences, Humanities, board including the Chairmen of EEE, ECE, Mech and Civil boards for deliberation on the preparation of scheme of Teaching and Examination, and syllabus for 1st year B.E and B.Arch Programmes.</p> <p>7. B. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA. Chairman of B. Arch to propose scheme of Teaching and Examination, and syllabus of both UG and PG consultation with COA.</p> |
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| Agenda -4 | : | Finalization of III to VIII Semester Syllabus for 2017-18 Scheme. |
| Resolution | : | All Chairmen are to submit the final consolidated copy of syllabus only with minor changes in the contents in line with 2015-16 higher semester syllabus on or before 30-03-2018 without fail |
| Agenda -5 | : | Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester. |
| Resolution | : | <p>(a) Recommended to follow the prevailing scheme for UG Programme. However an equivalence regarding scheme of study to be obtained from Chairman of concerned board.</p> <p>(b) Also recommended for PG Programme students who were admitted in 2016-17 and could not attend the higher semester classes during the academic year 2017 -18 and eligible now should attend the classes with 2017-18 scheme batch students. However, these students have to follow 2016-17 scheme of teaching and Examination and not the prevailing scheme of teaching and Examination.</p> |

Table Agenda

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| Table Agenda-1 | : | An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch. |
| Resolution | : | Resolved to follow the present pattern that is in place. |
| Table Agenda-2 | : | Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended- 2014. |
| Resolution | : | <p>(a) Issue about the qualifications for Research Supervisor for Ph.D (Architecture) to be referred to Research committee for consideration.</p> <p>(b) Issue about the Ph.D comprehensive viva – voce to be referred to Research committee for consideration.</p> |
| Table Agenda-3 | : | Inclusion of Kannada as one credit course for III semester B. Arch Programme from academic year 2018-19. |
| Resolution | : | To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19. |
| Table Agenda-4 | : | Number of ranks to be limited to 50% or less for programme offered in only one Institution. |
| Resolution | : | To abide by the existing regulations. |
| Table Agenda-5 | : | Providing Subject wise University Aggregate Results |

| Resolution | : | University to publish Subject wise Aggregate Results so that the institutions can access the same through Principal's login. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|-------|----------|-----------|----|--|--|------------|------------|------------|------------|---|---|--|------------|------------|---|--|------------|---|---|------------|------------|---|---|-------------------------|---|---|------------|
| Table Agenda-6 & 7 | : | Clarification regarding Internship. Formulation of Modalities/Guidelines for UG-Internship (2015-16 Scheme). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | : | (a) Four week Internship during 6 th and 7 th and/or 7 th and 8 th Semester vacation period. (b) The examination on Internship to be conducted in line with University project viva -voce examinations. (c) Amend (modify) the existing 2015 -16 regulations governing the internship i.e., 15OB.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Table Agenda-7 | : | Book Exhibition and Inclusion of one Librarian to BoS Meetings. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | : | (a) To organize Book Exhibition at VTU Regional office, Bengaluru and VTU Campus, Belagavi. (b) To Invite one librarian to BoS Meetings to assist the Board of Studies to assist to select/propose Reference books and Text Books. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Table Agenda- 8 | : | Action Plan for Implementation of quality initiatives of AICTE including revised curriculum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | : | It is resolved to write a letter to Ministry of Human Resource Development, Department of Higher Education, Government of India regarding the Action Plan Timeline of Implementation of AICTE Model Curriculum the timeline as follows: <table border="1"> <thead> <tr> <th>Sr.No</th><th>Activity</th><th>Time Line</th></tr> </thead> <tbody> <tr> <td rowspan="5">1.</td><td rowspan="5">Inviting Board of Studies Meeting <ul style="list-style-type: none"> Examining existing curriculum Examining AICTE Model curriculum for its suitability Revision of curriculum incorporating model curriculum suggested by AICTE Identifying PEO, PO, CO </td><td></td></tr> <tr> <td>02/02/2018</td></tr> <tr> <td>14/02/2018</td></tr> <tr> <td>16/04/2018</td></tr> <tr> <td>16/04/2018</td></tr> <tr> <td rowspan="3">2</td><td rowspan="3">Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> Examining curriculum for its suitability of Industry demand. Vetting of PEO, PO, CO </td><td></td></tr> <tr> <td>15/03/2018</td></tr> <tr> <td>02/05/2018</td></tr> <tr> <td>3</td><td>Preparation of Training Plans for Teachers</td><td>05/05/2018</td></tr> <tr> <td rowspan="2">4</td><td rowspan="2">Inviting Academic Council Meeting <ul style="list-style-type: none"> Approval of revised (model) curriculum Approval to teachers training plans </td><td>10/05/2018</td></tr> <tr> <td>10/05/2018</td></tr> <tr> <td>5</td><td>Orientation workshop for faculty for implementation of revised curriculum</td><td>15/05/2018 – 20/06/2018</td></tr> <tr> <td>6</td><td>Implementation of curricular retrospectively w.e.f Academic Session 2018-2019</td><td>01/08/2018</td></tr> </tbody> </table> | Sr.No | Activity | Time Line | 1. | Inviting Board of Studies Meeting <ul style="list-style-type: none"> Examining existing curriculum Examining AICTE Model curriculum for its suitability Revision of curriculum incorporating model curriculum suggested by AICTE Identifying PEO, PO, CO | | 02/02/2018 | 14/02/2018 | 16/04/2018 | 16/04/2018 | 2 | Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> Examining curriculum for its suitability of Industry demand. Vetting of PEO, PO, CO | | 15/03/2018 | 02/05/2018 | 3 | Preparation of Training Plans for Teachers | 05/05/2018 | 4 | Inviting Academic Council Meeting <ul style="list-style-type: none"> Approval of revised (model) curriculum Approval to teachers training plans | 10/05/2018 | 10/05/2018 | 5 | Orientation workshop for faculty for implementation of revised curriculum | 15/05/2018 – 20/06/2018 | 6 | Implementation of curricular retrospectively w.e.f Academic Session 2018-2019 | 01/08/2018 |
| Sr.No | Activity | Time Line | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 02/02/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 16/04/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16/04/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> Examining curriculum for its suitability of Industry demand. Vetting of PEO, PO, CO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15/03/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 02/05/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Preparation of Training Plans for Teachers | 05/05/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Inviting Academic Council Meeting <ul style="list-style-type: none"> Approval of revised (model) curriculum Approval to teachers training plans | 10/05/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10/05/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Orientation workshop for faculty for implementation of revised curriculum | 15/05/2018 – 20/06/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Implementation of curricular retrospectively w.e.f Academic Session 2018-2019 | 01/08/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The Meeting concluded with thanks by the chair.


Registrar


Vice-Chancellor:

2.2 Matters Concerning Board of Studies

Item No. 2.2.5 of the Agenda of the
140th meeting of the Executive Council
to be held on 13th July 2018

Consideration of the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru

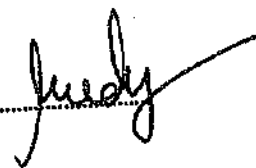
The Joint Board of Studies Meeting was held on 11-6-2018 at VTU's Regional Office, Bengaluru. The Proceedings of the Joint Board of Studies Meeting are placed before the Executive Council for consideration and approval.

The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

Resolution No. 2.2.5

The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru, as placed in the meeting.

Minutes of the 140th Executive Council Meeting held on 30-6-2018 and adjourned meeting held on 13-7-2018.....



**Proceedings of the meeting of Joint Board of Studies
held on 11th June 2018 at VTU, Regional Office, Bengaluru.**

Members Present:

| |
|---|
| 1. Dr. Karisidappa, Chairman JBOS and Vice chancellor, VTU, Belagavi. |
| 2. Dr. H. N. Jagannatha Reddy, Registrar, VTU, Belagavi. |
| 3. Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi. |
| 4. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU Belagavi, and Principal, Nitte Meenakshi Institute of Technology, Bengaluru. |
| 5. Prof.V.Keshava Murthy, Academic Advisor, VTU Regional office, Bengaluru. |
| 6. Dr. R. Prabhakara, Professor, Emeritus Structural Engineering Division, and Advisor Academic and Admin section, VTU, Belagavi. |
| 7. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences, VTU, Belagavi. |
| 8. Dr. Omprakash S Bawane, Chairman, BOS in Architecture, VTU, Belagavi. |
| 9. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engineering, VTU, Belagavi. |
| 10. Dr. S. M Gopinath, Chairman BOS in Biotechnology, VTU, Belagavi. |
| 11. Dr. Aswath M. U., Chairman, BOS in Civil Engineering, VTU, Belagavi. |
| 12. Dr. Srinivas Rao Kunte, Chairman, BOS in E and C, VTU, Belagavi. |
| 13. Dr. Shobha Savanur, Chairperson, BOS in E and E, VTU, Belagavi. |
| 14. Dr. Mallikarjun. S. Holli, Chairman, BoS in Electronics and Instrumentation Engineering of VTU, Belagavi. |
| 15. Dr.U. Bhojanna, Chairman, BOS in Business Administration, VTU, Belagavi. |
| 16. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering, VTU, Belagavi. |
| 17. Dr. M. C. Jagath, Chairman, BOS in IPE, VTU, Belagavi. |
| 18. Dr. Murugesh Babu, Chairman, BOS in Silk and Textile Technology, VTU, Belagavi. |
| 19. Dr. Nandakishore, Chairman, BOS in Automobile Engineering, VTU, Belagavi. |
| 20. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology, VTU, Belagavi. |
| 21. Dr. N.Chowdappa, Chairman, BOS in Library and Information Science, VTU, Belagavi. |
| 22. Dr. H.S Dayananda, Chairman, BOS Humanities, VTU, Belagavi. |

Members Absent

| |
|---|
| 1. Dr. D.S.Suresh, Academic Senate and Executive Committee member, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi. |
| 2. Dr. C N Chandrappa, Executive Council Member and Special Invitee, VTU, Belagavi. |
| 3. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering and Polymer Science, VTU, Belagavi. |

Agenda:

1. Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum).
2. Finalization of the Scheme for M.Tech/MCA and MBA Programme for 2018-19 scheme (as per AICTE Model Curriculum).
3. To adopt teaching days as 180 in a Year as per UCC.

Table Agenda:

1. Equivalence Courses for Change of Scheme Students.
2. Mention of paper setting Board.
3. M.Sc Physics consideration for Eligibility in M.Tech (Renewable Energy).
4. Any other matter with the permission of the chair

Minutes of the Meeting:

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairmen of Joint Board of Studies and all the members present. He requested Honorable Vice-Chancellor for further proceedings.

Honorable Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and briefed on the agenda. Honorable Vice-Chancellor requested members for discussions. After detailed deliberations the following resolutions were made.

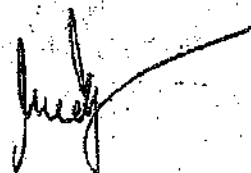
| | |
|------------|---|
| Agenda -1 | Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum). |
| Resolution | <p>1. Resolved to incorporate the following to the Scheme of Teaching and Examination of UG programme 2018-19.</p> <p>(a) In order to provide sufficient time for the learners in tutorial classes, it is decided to assign one credit to 2 hour tutorial/week/semester in lieu of earlier decision that one credit to 1 hour tutorial/week/semester.</p> <p>(b) To provide ample opportunity for teaching - learning exercise of two credit English course, the consensus of the Board was to have the course both in I and II semesters instead of limiting it only to II semester.</p> <p>(f) Further, designate the course as Language Laboratory I (English) for I semester and Language Laboratory II (English) for II semester. Each course to carry a credit of one.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students in the course to be through CIE only.</p> <p>(c) (i) The III semester course Kannada to be taught as vyavaharika kannada (Communication Kannada) to non-kannada speaking students/ to students who have not studied kannada during schooling and Aadalthathmaka Kannada (Administrative Kannada) to students who can read and write kannada and have studied kannada during schooling.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students to be through CIE only.</p> <p>(d) Title of the course Civil Engineering and Mechanics of I / II semester to be modified as Elements of Civil Engineering and Mechanics.</p> <p>(e) Title of the course Computer Programming Laboratory of I / II semester to be modified as C Programming Laboratory.</p> <p>(f) Assessment of students in the VII semester BE/B.Tech course project work Phase -1 to be through CIE only.</p> <p>(2) Four Professional Elective Courses to be assigned to BE/B.Tech programmes; One for VI semester, two for VII semester and one for VIII semester.</p> <p>3.(i) Two Open Elective Courses to be assigned to BE/B.Tech programmes;</p> |

| | <p>One each during VI and VII semesters.</p> <p>(ii) Constitute a Committee with Dean, Engineering as Chairman, Chairpersons of Board of Studies and Advisors of VTU as members for finalization of BE/B.Tech Open Electives.</p> <p>4. Board authorized the Vice-Chancellor to finalize the BE/B.Tech Regulations 2018 – 19 and Scheme of Teaching and Examination.</p> <p>5. Board of Studies to submit the Scheme of Teaching and Examination and syllabus pertaining to III to VIII semesters of BE/B.Tech/ B.Arch programmes on or before 30th June 2018.</p> | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|-------------------------|--------------------------------|--|------------------------|------------------------|----------|----|----|----------|-----|-----|------|-----|-----|------|-----|-----|---------------------|---|----|
| Agenda -2 | Finalization of the Scheme for M.Tech, MCA, MBA and MArch Programme for 2018-19 scheme (as per AICTE Model Curriculum). | | | | | | | | | | | | | | | | | | | | |
| Resolution | <p>(1) Revise the credits of postgraduate programmes to be on par with the credits prescribed for autonomous colleges under VTU from the academic year 2018 -19. The table 1 shows the previous and the revised credits prescribed for the postgraduate programmes.</p> <table border="1"> <caption>Table - I Credits prescribed for different Postgraduate programmes</caption> <tr> <th rowspan="2">Postgraduate programmes</th><th colspan="2">Credits as per the decision of</th></tr> <tr> <th>JBS held on 27-03-2018</th><th>JBS held on 11-06-2018</th></tr> <tr> <td>M. Tech.</td><td>72</td><td>88</td></tr> <tr> <td>M. Arch.</td><td>100</td><td>100</td></tr> <tr> <td>MBA.</td><td>102</td><td>100</td></tr> <tr> <td>MCA.</td><td>125</td><td>132</td></tr> <tr> <td>MCA (Lateral Entry)</td><td>—</td><td>88</td></tr> </table> <p>(2) Marks for evaluation of each course to be 100; SEE and CIE to be in the ratio 60:40.</p> <p>(3) Evaluation of Technical seminar and Project work phase 1 to be through CIE only.</p> <p>(i) The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>(ii) The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>(4) Recent two year MCA Programme sanctioned by AICTE, is to be reckoned as II and III years of the three year MCA programme for which BCA/B.Sc Graduates are only eligible under lateral entry scheme.</p> | Postgraduate programmes | Credits as per the decision of | | JBS held on 27-03-2018 | JBS held on 11-06-2018 | M. Tech. | 72 | 88 | M. Arch. | 100 | 100 | MBA. | 102 | 100 | MCA. | 125 | 132 | MCA (Lateral Entry) | — | 88 |
| Postgraduate programmes | Credits as per the decision of | | | | | | | | | | | | | | | | | | | | |
| | JBS held on 27-03-2018 | JBS held on 11-06-2018 | | | | | | | | | | | | | | | | | | | |
| M. Tech. | 72 | 88 | | | | | | | | | | | | | | | | | | | |
| M. Arch. | 100 | 100 | | | | | | | | | | | | | | | | | | | |
| MBA. | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| MCA. | 125 | 132 | | | | | | | | | | | | | | | | | | | |
| MCA (Lateral Entry) | — | 88 | | | | | | | | | | | | | | | | | | | |
| Agenda -3 | To adopt teaching days as 180 in a Year as per UGC. | | | | | | | | | | | | | | | | | | | | |
| Resolution | Resolved to adopt 180 or more teaching days in an academic Calendar as per UGC norms and to have at least 90 teaching days per semester. | | | | | | | | | | | | | | | | | | | | |

| Table Agenda | |
|---|---|
| Table Agenda-1 | : Equivalence courses for students who change the Scheme. |
| Resolution | : Students who change the scheme of study because of various reasons have to get admitted to the prevailing scheme and follow the norms pertaining to it. Such students may have to complete additional subjects, if any, when the equivalence between the two schemes is decided by the concerned Board of Studies along with the number of credits to be earned after completing all the remaining semesters as a regular student in the prevailing scheme. |
| Table Agenda-2 | : Mention of paper setting Board. |
| Resolution | : Specific paper setting Board of examiners (BOE) be mentioned against each science Course instead of the generic term Basic Sciences in the BE/B.Tech scheme of Teaching and Examination. Illustration: (i) Engineering Physics: Paper setting Board - BOE in Physics. (ii) Engineering Chemistry: Paper setting Board - BOE in Chemistry. (iii) Mathematics papers: Paper setting Board - BOE in Mathematics. |
| Table Agenda-3 | : Approval of M.Sc Physics degree for Eligibility to M.Tech (Renewable Energy). |
| Resolution | : After the deliberations, M.Sc Physics degree, as per MNRE, Government of India, is approved to be eligible to M.Tech (Renewable Energy) programme. |
| Issues with the permission of the chair | |
| Issue-1 | : Change of nomenclature of programme (course, according to AICTE Approval Process Handbook 2018 -19) Instrumentation Technology (IT) to Electronics and Instrumentation Engineering (EI) |
| Resolution | : Address a letter to KEA - CET cell to change the branch name of Instrumentation Technology (page 14), Instrumentation Technology (IT) (page 21) to Electronics and Instrumentation Engineering (EI) in the PG CET - 2018 - Information Bulletin. |

The Meeting concluded with thanks by the chair.

Registrar



Vice-Chancellor:



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka State.

Prof. Satish Annigeri Ph.D.
I/c. Registrar

Phone : (0831) 2405468
Fax : (0831) 2405467

No.: VTU/BGM/DPAR/CR(2)/03/2017-18/1134

Date: **23 JUL 2019**

: Official Memorandum:

Sub: Proceedings of the meeting to discuss about the academic matters and office procedures – Reg...

Ref: 1. Meeting Notice No. VTU/PS/2019-20/2178 dated:02-07-2019

2. Proceedings of the meeting dated:04-07-2019

With reference to the above subject and under reference (1) and (2), please find herewith the copy of the proceedings of the meeting held on 04-07-2019 to discuss about the academic matters and office procedures for further needful process.

Encl: Copy of the Proceedings

Annigeri
I/c. REGISTRAR

Copy for information to:

1. The Secretary to The Hon'ble Vice Chancellor, VTU, Belagavi.
2. The P. S. to The Registrar, VTU, Belagavi
3. The Registrar (Evaluation), VTU, Belagavi
4. The Finance Officer, VTU, Belagavi
5. The Resident Engineer, Engineering Section, VTU, Belagavi for information and necessary action.
6. The I/c. Regional Director, VTU's Regional Office, Belagavi, Bengaluru, Mysuru and Kalaburagi.
7. The Director, IQAC Cell, VTU, Belagavi for information and necessary action.
8. The Coordinator, National Assessment and Accreditation Council (NAAC) Cell, VTU, Belagavi.
9. The Concerned Chairperson/s and the Program Coordinator/s of the Department for information and necessary action.
10. The Coordinator, VTU's PG Centre, Belagavi, Kalaburagi, Muddenahalli and Mysuru.
11. The Special Officer Academic Section, VTU, Belagavi
12. The Special Officer, Ph.D. Section, VTU, Belagavi
13. The Special Officer, VTU-RRC, Belagavi
14. The Librarian, VTU, Belagavi
15. The Stores and Purchase Officer, SAP, VTU, Belagavi
16. The Director (I/c), Information Technology Infrastructure and Services Management Unit (ITISMU), VTU, Belagavi
17. Office Copy.

O/N 24 July 2019

I. N. D. 21. dt: 24/7/2019

Annigeri
File the document
24/07/19.

PROCEEDINGS OF THE MEETING TO DISCUSS ABOUT THE ACADEMIC MATTERS AND OFFICE PROCEDURE FOR PG DEPARTMENTS HELD ON 04th JULY, 2019 AT 11.00 A.M. @ VC'S CONFERENCE HALL, VTU, BELAGAVI WITH THE FOLLOWING ATTENDANCE .

Ref: Meeting Notice No. VTU/PS/2019-20/2178 dated:02-07-2019

Members Present

| Sl. | Name and Designation | |
|-----|--|----------|
| 1 | Dr. Karisiddappa Hon'ble Vice Chancellor, VTU, Belagavi | Chairman |
| 2 | Prof. Satish Annigeri Registrar (Eval) & Registrar (I/c.), VTU, Belagavi | Member |
| 3 | Smt. M. A. Sapna Finance Officer, VTU, Belagavi | Member |
| 4 | Dr. Anand Veerappa Shivapur Chairperson, Dept of Civil Engineering | Member |
| 5 | Dr. Ravindra Rachappa Malagi Chairperson, Dept of Mechanical Engineering | Member |
| 6 | Dr. T. C. Thanuja Chairperson, Dept of Electronics and Communication Engineering | Member |
| 7 | Dr. Shanmukappa A. Angadi Chairperson, Dept of Computer Science Engineering | Member |
| 8 | Dr. S. R. Bharamanaikar Chairperson, Dept of Management Studies | Member |
| 9 | Dr. N. Chikkanna Chairperson , Department of Aerospace Engineering | Member |
| 10 | Sri. Brijbhushan S. Program Coordinator, Dept of Civil Engineering | Member |
| 11 | Dr. Venkatesh M. Kulkarni Program Coordinator, Dept of Mechanical Engineering | Member |
| 12 | Dr. R. Suresh Program Coordinator, Dept of Mechanical Engineering | Member |
| 13 | Dr. G. S. Venkatesh Program Coordinator, Dept of Mechanical Engineering | Member |
| 14 | Dr. Sarika Shankarao Tale Program Coordinator, Electronics and Communication Engineering | Member |
| 15 | Dr. Shubhangi Digamber Chikte Program Coordinator, Dept of CSE and Dept of ECE | Member |
| 16 | Dr. K. Thippeswamy Program Coordinator, Dept of CSE and Dept of ECE | Member |
| 17 | Dr. Shivamurthy G. Program Coordinator, Dept of Computer Science Engineering | Member |
| 18 | Dr. B. Shambhu Lingappa Program Coordinator, Dept of Management Studies | Member |
| 19 | Dr. T. P. Renukamurthy Program Coordinator, Dept of Management Studies | Member |
| 20 | Dr. Pankajakshi R. Program Coordinator, Dept of Management Studies | Member |
| 21 | Dr. Dinesh Rangappa Program Coordinator , Department of Applied Sciences (Nano Tech) | Member |
| 22 | Sri. Hemanthkumar Resident Engineer, DPAR, VTU, Belagavi | Member |
| 23 | Sri. Shravan B. K. Special Officer, DPAR, VTU, Belagavi | Member |

Members Absent

| Sl. | Name and Designation | |
|-----|---|--------|
| 1 | Dr. Keerthi Gowda B.S. Program Coordinator, Dept of Civil Engineering | Member |

Preamble:

VTU has created Program wise Departments in its PG Centres and nominated Chairpersons at VTU Headquarters and Program Coordinators at different PG Centres. In Order to discuss Academic and Administrative issues relating to PG Centres, this meeting has been convened under the Chairmanship of Hon'ble Vice-Chancellor.

Proceedings:

The Registrar welcomed the Chairman and members and briefed about the agenda of the meeting and requested the Hon'ble Vice-Chancellor to carry out the proceedings. Hon'ble Vice-Chancellor addressed the Chairpersons and Program Coordinators with the following directions:

a) Academic & Administrative related matters.

1. The earlier PG Centres are decentralized and PG Departments are created.
2. The Departments are given autonomy in Administration and Academic matters.
3. The Chairpersons of the Departments will act as Heads of respective departments and will directly report to the Registrar
4. All Departments are established in Headquarters except Department of Aerospace Propulsion Technology (which is established in VTU's PG Centre, Muddenahalli) and Chairpersons will head the departments
5. Program Coordinators will act as heads of respective departments at respective PG Centres and will report to the respective Chairpersons in all matters.
6. The Chairpersons and Program Coordinators posts will be treated as Non-Vacation posts and relevant leave benefits as per rules are applicable to them.
7. Chairpersons and Program Coordinators are responsible for :
 - a. Maintaining disciplined administration in the department
 - b. Maintaining Academics of the department like Regular class monitoring, IA tests, Seminars, attendance of staff and students etc.
 - c. Maintaining all the administrative and Academic records.
 - d. admissions to their departments
8. Tenure of Chairpersons and Program Coordinator will be for two years on rotation basis.
9. Chairpersons are authorized to grant Casual leave up to 5 days. If it is more than 5 days the application must be approved by the Registrar. The staff should get prior approval for leave. In case of emergencies like accident, ill health natural calamities etc., telephonic request may be approved. The department has to maintain all attendance records properly for audit purpose.
10. The Program Coordinators are authorized to grant Casual leave up to 3 days. If it is more than 3 days and up to 5days, the application must be approved by the concerned Chairperson. If it is more than 5 days the application must be approved by the Registrar. The staff should get prior approval for leave. In case of emergencies like accident, ill health natural calamities etc., telephonic request may be approved. The department has to maintain all attendance records properly for audit purpose.

11. All SCL/OODs upto 3days can be approved by the Chairpersons and if it is more than 3 days the same shall be submitted to Registrar for approval. In any case SCL/OODs must not exceed 30 days in a year. The department has to maintain all relevant records properly for audit purpose.
12. The Chairpersons and Program Coordinators are availing leave or OOD/SCL, they shall give incharge to next senior faculty of the department.
13. The Chairpersons and Program Coordinators shall maintain two attendance registers in the department one for teaching and one for non-teaching staff members.
14. The Office timings are 9.00 a.m. to 4.30 p.m. on weekdays and on Saturday the timings are 9.00 a.m. to 1.30 p.m. and are applicable to both teaching and non teaching staff members.
15. The Office timings for Muddenahalli campus is 9.00 a.m. to 4.00 p.m. on weekdays and on Saturday the timings are 9.00 a.m. to 1.00 p.m. and is applicable to both teaching and non teaching staff members.
16. Each department should have biometric attendance. Staff should submit their biometric attendance between 9.00 a.m. to 9.15 a.m. in the morning, between 4.30 p.m. to 5.00 p.m. in the evening and afternoon between 2.00 p.m. to 2.15 p.m. (with respect to PG Centre, Muddenahalli between 9.00 a.m. to 9.15 a.m. in the morning, between 4.00 p.m. to 4.30 p.m. in the evening and afternoon between 1.00 p.m. to 1.15 p.m).
17. Responsibility of maintaining the attendance is with Chairpersons and Program Coordinator
18. The Chairpersons shall call council meetings as per statutes and as and when required. Chairpersons shall call meeting of Program Coordinators at least twice in a Academic year.
19. The Chairpersons shall issue calendar of events including vacation for their departments, based on the University calendar of events and the same should be strictly adhered to.
20. Each department will be provided with required clerical/ technical staff.
21. The Seniority list will be provided to each department.
22. The Chairperson shall make alternative arrangements when a faculty / staff is on leave, so the students should be engaged with classes.
23. Chairpersons and Program Coordinator are responsible for upliftment of teaching learning quality at their department
24. The Chairpersons and Program Coordinators shall be responsible for assisting and mentoring students and should act like a guardian to students.
25. Each department should have, Departmental Library and Research Centre.
26. All the departments must cooperate with NAAC coordinator and make all the efforts for getting NAAC approval to the University.
27. All the departments can conduct FDPs , Workshops etc.,
28. Chairpersons shall identify Professor Emeritus for their department with a prior approval of the Hon'ble Vice Chancellor.

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29. Guest faculty requirement (if any) and identified faculty list is to be submitted to the Registrar.

b) Finance related matters.

1. Chairpersons shall submit the budget of their department to the Finance Officer through the Registrar
2. All the financial matters of the departments are to be well planed and for any lapses, the Chairpersons are held responsible.
3. The PG Coordinators account to be closed after reconciliation and each department should have separate account.
4. Ledger, Cash books, assets and Liabilities are to be maintained by the concerned Chairpersons and Program Coordinators.
5. While submitting any procurement requirement, the Chairpersons must submit the estimated cost supported with market analysis and required specifications.
6. Finance Officer is requested to issue a guidelines/circular related to financial matters.

c) Research related matters

1. The concept of Research Resource Centre is removed; each department is a research centre.
2. Full time Research scholars working under VTU Faculty will be given fellowship under "Jnanayana" as per the guidelines.
3. Chairpersons are the heads of research centres.
4. Research funds will be allocated to all the Departments based on their request.
5. Part time research scholars will be under the department.

d) Examination related matters.

1. The Responsibilities of Conducting Examinations and related activates shall be handled by one department for one academic year on rotation. The allotment will be done by the Registrar (Evaluation).

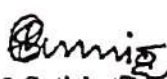
e) Building related and Other issues


1. The Responsibilities of the Hostel warden and Assistant warden and related activates shall be handled by one department for one academic year on rotation basis similar to the Examination. The allotment will be done by the concerned department Chairperson.
2. Consumable shall be taken from the stores and purchase department as per procedure
3. Each department should have required Office facilities and Chairpersons shall contact Resident Engineer for the same.
4. The Estate office shall be established at PG Centre Muddenhalli

The recommendations shall be implemented with immediate effect by directing concerned sections to issue related orders.

The Meeting concluded with vote of thanks.

Place : Belagavi
Date : 04-07-2019


Prof. Satish Annigeri
Registrar (I/c.), VTU and
Member of the Committee


Dr. Karisiddappa
Hon'ble Vice Chancellor, VTU and
Chairman of the Committee


PRINCIPAL
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.A.