



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(An Autonomous Institution, Affiliated to VTU, Belagavi)
Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

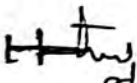
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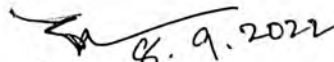
Date: 08-09-2022

CIRCULAR

Subject: Implementation of New and Revised VTU Guidelines for the
Autonomous Batch Admitted from 2021-22 Onwards - Regarding

In view of the new and revised guidelines (See the attachment) for autonomous colleges released by the Visvesvaraya Technological University (VTU) on 25-04-2022, the students of autonomous system admitted from the academic year 2021-22 are hereby notified that the BMS Institute of Technology and Management has adopted the above said guidelines effective from the academic year 2021-22 onwards. Hence, all the students of the autonomous system starting from the academic year 2021-22 shall be governed by the new guidelines by the VTU.


CoE 8/9/2022


Dean (A)


Principal

Attachment: Visvesvaraya Technological University Guidelines and Norms for Implementation of Academic Autonomy in Institutions (2018) Amendments in 2022" Effective from the academic year 2021-22

Copy to: Examination office file.

All HoDs, Deans, Notice Boards, Admin Office, Accounts, College Website.



Visvesvaraya Technological University

(State University Government of Karnataka Established as per VTU Act 1994)
"Jnana Sangama", Belagavi - 590 018, Karnataka State

Dr. A S. Deshpande B.E., M.Tech., Ph.D.
REGISTRAR

Phone : (0831) 2498100
Fax : (0831) 2405467

Ref: VTU/BGM/OS-Aca-Autonomy/2022-23/63

Date :

5 APR 2022

To,
The Principals
All Autonomous Institutions
In the ambit VTU, Belagavi

Sir,

Sub: Draft University Guidelines and norms for Implementation
of Academic Autonomy in Institutions (2018) Amendments in
2022- effective from 2021-22- reg.,

Ref: Hon'ble Vice Chancellor's approval dated 04-04-2022

With reference to the above, please find enclosed herewith the draft University Guidelines and norms for Implementation of Academic Autonomy in Institutions (2018) and these guidelines will be effective from 2021-22 .

You are requested to go through the same and provide your valuable feedback on or before 3 PM on 5-4-2022 to registrar@vtu.ac.in with a copy to office.suptd@vtu.ac.in .

Thanking you,

Yours faithfully,

Encl: As above

Copy to:

Hon'ble Vice-Chancellor through Secretary to V.C, VTU Belagavi.

REGISTRAR

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Visvesvaraya Technological University

“Jnana Sangama”, Belagavi - 590 018, Karnataka State



“Visvesvaraya Technological University Guidelines and norms for Implementation of Academic Autonomy in Institutions (2018) Amendments in 2022”

Effective from the academic year 2021-22.

(framed under Section 20(w) of VTU Act 1994)



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1.0

Short Title and Commencement:

- 1.1 These shall be called "**Visvesvaraya Technological University Guidelines and norms for Implementation of Academic Autonomy in Institutions (2018) Amendments in 2022**" keeping in view the latest Regulations of UGC/AICTE-2021. Applicable from the academic year 2021-22.
- 1.2 This Guidelines and norms shall be the guiding authority for the Autonomous Colleges to enable them to frame appropriate *Regulations* for implementing the *academic autonomy* granted to them.
- 1.3 This Guidelines and norms shall come into effect from the date of approval by the Executive Council of the University.
- 1.4 This Guidelines and norms shall be uniformly applicable to all Autonomous Colleges under the Jurisdiction of Visvesvaraya Technological University, Belagavi.

2.0

Definitions:

- 2.1 "Academic Autonomy" means freedom granted by the University to a College in all aspects of conducting its academic programmes for promoting excellence.
- 2.2 "Autonomous College" means a College notified as an *autonomous college* by the University as per the prevailing VTU Statutes on Autonomous Colleges and that may be further amended from time to time as per UGC /AICTE Regulations.
- 2.3 "Commission" means University Grants Commission.
- 2.4 "Council" means All India Council for Technical Education.
- 2.5 "Statutes" Means VTU Statutes on Autonomous Colleges (Amended)2022 and further amended from time to time.
- 2.6 "University" means Visvesvaraya Technological University.
- 2.7 "Teacher" means the teaching staff of the college appointed by following the specified rules of the University, and/or of the council

3.0

Preamble:

A number of Engineering Colleges within the jurisdiction of VTU have been granted the autonomous status, in accordance with the statutes framed in this regard keeping in view the regulations of UGC/AICTE in order to implement the *academic autonomy so that*, they could derive full benefits and be able to meet the 21st century challenges faced by the technical education system in the country, like:

- (i) Ever increasing influence of science and technology and their impact on human society.
- (ii) Shrinking time scale of new developments and the high rate of obsolescence in

the older practices.

- (iii) Penetration of Information Technology in all sectors of human activity and economic Development.
- (iv) Service sector becoming a major avenue for employment of technical professionals and also for economic gains.
- (v) Emergence of knowledge as a key driver for the progress of nations and for increasing their influence on the world scenario.

As engineers have to convert these challenges into opportunities, it is expected that the 21st century engineers will be required to have:

- Strong foundation in the basics of mathematics, science and engineering discipline.
- Command over the chosen area of technical specialization.
- Capacity to apply the professional knowledge and skills acquired.
- Good competence to learn a subject on one's own without major external help.
- Expertise in analysis, design, modeling and simulation of complex systems.
- Scaling up, mass production, system operation and maintenance.
- Estimation of costs and time factors in an assignment.
- Ability for rational, logical, orderly and objective thinking.
- Skills in personnel management and human relations, and
- Leadership qualities including spirit of tolerance, patience and team work.

Therefore, in view of the above, it is desirable that each Autonomous College gets fully prepared to take the following steps based on these *statutes*.

3.0 (a)

Academic Norms :

The Autonomous Institutes shall follow University Regulations and notifications for the following as notified from time to time:

- a) Research Programmes
- b) Postgraduate programmes for award of Degree
- c) Undergraduate programmes for award of Degree
- d) Undergraduate Degree with Honours / Minors.
- e) Post Graduate Diploma
- f) Post Graduate Certificate

4.0

Academic Programmes:

4.1 (a)

Autonomy granted to the College is institutional in nature and hence an Autonomous College shall be free to launch new Degree programmes at Undergraduate (UG) level like B.E., B.Tech., B.Plan., B.Voc. and B. Arch., Postgraduate (PG) level like M. Tech., M. Arch., M.Plan., M.B.A and M.C.A and Research like M.S by Research, Ph.D. all being in the list specified by the AICTE/UGC /

VTU from time to time after getting approval from the University, AICTE/ UGC/ CoA/ Government of Karnataka and their respective Governing Bodies.

- 4.1 (b) An Autonomous College shall be free to make changes in the existing / new Degree programmes with the approval of its Academic Council. Such changes could be in the schemes of instruction, syllabi, schemes of examinations and other aspects, while fulfilling the minimum academic standards laid down by the University for the Award of Degrees. The changes so made shall be notified by the Autonomous College concerned at least three months before the commencement of an academic year and the University be kept informed of these changes within a fortnight of such notification
- 4.1 (c) An Autonomous College shall have the freedom to start Diploma (post- polytechnic Diploma, post-UG and post-PG levels) and/or Certificate programmes with the approval of its Academic Council. The issuance of certificates/diplomas on completion of such programmes shall be made under the seal of the concerned College only.
- 4.1 (d) An Autonomous College shall also be free to evolve methods for assessing the students' performance, notifying the results, issuing the grade cards/transcripts, migration and other certificates except the Degree Certificates.
- 4.1 (e) In order to get the various benefits of *academic autonomy*, it is necessary for an Autonomous College to re-structure its various academic programmes based on the *Semester Scheme* by introducing *Credits* for academic activities, bring in *Examination Reforms* for better achievement testing, award *Letter Grades and Numerical Grade Points/ Averages* for students' performance and set appropriate *Passing Standards* in line with the standard set by the University.
- 4.1 (f) The Autonomous Colleges are required to follow uniform practices for the *Semester Scheme, Credit System, Examinations, Letter Grades and Numerical Grade Points/Averages*, so as to enable their students to avail of horizontal/ vertical mobility and transfer of credits from one Autonomous College to another resulting in related benefits of *academic autonomy*.

4.2 Nomenclatures of Programmes:

- 4.2 (a) The Autonomous Colleges shall use nomenclatures for their Degree programmes as specified by the UGC in its Notification dated 12th February, 2018 on "Specification of Degrees 2014" as amended from time to time. Besides, the Degree Certificates issued by the University to their awardees shall bear the name of the concerned Autonomous College as well. This will help in maintaining the identity of each programme conducted at the College and also ensuring its accountability.
- 4.2 (b) In view of the above, nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes at all Autonomous Colleges under the University
- 4.2(b)(i) UG Level: Bachelor of Engineering (B.E.) / Bachelor of Technology (B. Tech.), Bachelor of

Planning (B.Plan)/ Bachelor of Architecture(B.Arch.) / Bachelor of Vocational (B.Voc.). B.E. / B.Tech. (Honors/ Minors)

4.2(b) ii) PG Level: Master of Technology (M. Tech.), Master of Architecture (M. Arch.), Master of Business Administration (M.B.A.), M.Plan. (Master of Planning) and Master of Computer Applications (M.C.A.). Integrated M.Tech.

Besides, the branch/subject of specialization, if any, shall be indicated in brackets after the abbreviation; e.g., B.E. (Mechanical Engineering), M.Tech.(VLSI Design).

4.2(b)(iii) **Research Level: MS by Research and Doctor of Philosophy (Ph.D.).**

4.2 (c) Further, it is necessary that the Diploma and Certificate programmes at Autonomous Colleges shall also be indicated in abbreviated form, like DIP., and CERT with the branch/subject of specialization given in brackets after the abbreviation.

4.3 Programme Duration

4.3 (a) The duration of academic programme shall be the same as that followed by the University regulations and notification/ directions issued from time to time, i.e., three years for B.Voc., *four years for B.E./B.Tech./B.Plan., five years for B.Arch., two years for M.Tech., M. Arch., M.B.A., M.Plan, and M.C.A., one year for PG Diploma and six months for PG Certificate programmes. For research programmes M.S. by Research & Ph.D. as notified in University regulations and notification/ directions issued from time to time.*

4.3 (b) As a flexible *credit system* is to be followed for coursework at each Autonomous College, it is to be noted that the programme duration in the case of UG and PG shall also be dictated by the period in which a student earns the prescribed *credits* for the Degree/PG Diploma/Certificate award. Hence, it is possible for an outstanding student to earn the required credits in a shorter time than that ordinarily prescribed for the relevant programme in (a) above. However, in cases, the regulations/ directions notified by the University shall be followed.

4.3(c) The maximum period which a student can take to complete a fulltime academic programme shall be the same as that prescribed by the University from time to time; e.g., double the nominal duration of the programme, i.e., six years for B.Voc., *eight years for B.E./B. Tech./B. Plan./ Six years for Lateral entry students to B.E./B.Tech., ten years for B.Arch., four years for M. Tech./ M. Arch./M.B.A./ M.Plan., M.C.A.. two year for PG Diploma and one months for Certificate programme. Further, minimum and maximum period with respect to MS by Research and Ph.D. shall be as notified in University Regulations.*


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S. No	Programme	Years	
		Minimum	Maximum
1	a) B.Voc. b) B.E./B. Tech. (Lateral entry)	3	6
2	B.E./B.Tech./B. Plan.	4	8
3	B.Arch.	5	10
4	M. Tech./ M. Arch./M.B.A./ M.Plan., M.C.A.	2	4
5	PG Diploma	1	2
6	PG Certificate	6 months	1 year
7	MS by Research	As notified in University regulations	
8	Ph.D		

Note : The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

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

4.4 Admissions

4.4 (a) **I] Admissions to UG and PG Programmes:** The admission of students to various UG, PG and Research Degree programmes listed under Section 4.2 (b), shall be made by the Autonomous Colleges by following the orders issued from Government of Karnataka and University Regulations and directions issued from time to time in this regard.

II] Admissions to Research Programmes:

1. the admission of students for Research Degree programmes at Autonomous Colleges shall be made by the University in the concerned College as per the provisions in the prevailing VTU Regulations governing the Research Programmes, where Autonomy is NOT conferred/ granted for Research Programmes.
2. the admission of students for Research Degree programmes at Autonomous Colleges may be made by the concerned College as per the provisions in the prevailing VTU Regulations governing the Research Programmes where Autonomy is conferred/ granted for Research Programmes.

However, for doing so, the concerned college has to apply to University separately and satisfy the following conditions:

- i. The institute should have been place in the first 200 ranks of the

Engineering category of NIRF, amongst all the Engineering and Technology institute in the country for the previous consecutive three years.

- ii. At least 80 % of the eligible UG programmes in the institutions should be accredited by NBA, with at least three programmes, with a minimum score of 675 and also the institute must be accredited by NAAC with minimum 'A' grade.
- iii. The institute must have completed two autonomy cycles with NBA accreditation as recommended by UGC.
- iv. The institute should have produced at least 40 Ph.D. scholars in the last 10 years.
- v. The institute should enroll at least 06 full-time scholars with scholarships every year in line with prevailing VTU's Jnanayana Scheme. The scholarship should be distributed across all the departments for the period of 3 years in line with prevailing VTU's Jnanayana Scheme.
- vi. The institute should have at least 40% of its faculty strength with Ph.D. under their research centres.
- vii. Minimum four Research Supervisors, in each of the departmental research center is required.
- viii. Institute must comply with UGC guidelines for Autonomous Colleges and sections 4.4(xiii) & 6.1(c). of VTU Statutes on Autonomous Colleges-2011 (Amended 2018) and amended from time to time.
- ix. Admission to Ph.D. Program shall be on the basis of valid VTU ETR/GATE/NET/SET score and all the admissions have to be approved by the University .
- x. The VTU Regulations governing Ph.D. Programme, amended from time to time , shall be followed.
- xi. Admission to the Ph.D. Programme, shall be as per the norms and Regulations of VTU and all the admissions to be approved by VTU.
- xii. Only FULL TIME Ph.D. Scholars with fellowships shall be admitted.

III] Admission to PG Diploma and Certificate programmes: The admission of students to PG Diploma and Certificate programmes shall be made by the Autonomous College on its own, by following the Regulations as notified by the University from time to time. In all such cases, it shall be necessary to follow the statutory provisions of reservation of seats to different categories of candidates made by the government from time to time. University shall be informed of these programmes.


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4.4 (b) There shall be provision for candidates with a polytechnic Diploma or any other qualification approved by the Council and the UGC to join specified UG Degree programmes at the beginning of the second year of the 4-year B.E. / B.Tech. programme as per the prevailing practice in the University.

4.4 (c) **Migration of students:**

Under Graduate Programmes:

- (a) Migration of students from one college to another within University shall be governed by the prevailing regulations of the University
- (b) Migration from one branch to another branch in the same college or to another college within University shall be governed by the prevailing regulations of the University

Postgraduate Programmes:

There shall not be any transfer or migration from branch to branch or college to college for all PG programmes.

4.4 (d) **Eligibility Criteria/ Entry level Qualification :** The eligibility criteria / entry level qualification for admission of students to UG, PG, PG Diploma, PG Certificate, and Research Degree programmes at the Autonomous Colleges shall be the same as those prescribed by the University from time to time.

Note : The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

4.4 (e) The eligibility criteria for admission of students from a non-Autonomous College to an Autonomous College, from one Autonomous College to another Autonomous College and from University scheme at an Autonomous College to its Autonomous scheme, shall be as per prevailing norms of the University.

However, the Autonomous Colleges are free to provide syllabus equivalence for such candidates with the approval of its Academic Council.

4.4 (f) The eligibility criteria for the admission of students from other Universities (India / Abroad) to an Autonomous College shall be as per the prevailing norms of the University.

However, the Autonomous Colleges are free to provide syllabus equivalence with the approval of its Academic Council.


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4.5 Semester Scheme

- 4.5 (a) It is compulsory for all the Autonomous Colleges under the University to adopt the *Semester Scheme* at their UG, PG, PG Diploma and Certificate programmes.
- 4.5 (b) The breakdown of an academic year for implementing the *Semester Scheme* at Autonomous Colleges is given in Table 1 as a typical example

Table 1: A Typical Breakdown of Academic Year into Semesters (to be in line with the regulations made by university in this regard)	
1. Number of Semesters/Year	Two Main Semesters (<i>Odd, Even</i>) and a Supplementary Semester (Refer Annx I for Supplementary semester). <i>(Note: Supplementary Semester is primarily to assist the slow learners and/or repeater students for repeating the courses. However, Autonomous Colleges may use this Semester to arrange Add-On Courses for other students and/or for deputing them for field work and/or internship.)</i>
2.Semester Durations (Weeks)	Main Semesters (<i>Odd/Even</i>): 19 each. Supplementary Semester: 8.
3. Academic Activities (Weeks)	<p><u>Main Semester:</u> Registration of Courses- 0.5; Course Work- 15.5; Examination Preparation-1.0; Examinations- 1.0; Declaration of Results- 1.0; <i>Total: 19.</i></p> <p><u>Supplementary Semester (For Repeat/Add-On Courses):</u> Registration of Courses- 0.1;Course Work- 7.0; Examination Preparation-0.2; Examination-0.2; Declaration of Results-0.5; <i>Total: 8.</i></p> <p><u>Inter-Semester Recess:</u> After each Main Semester- 2 to 3, flexible. After Supplementary Semester- 1 to 2, flexible. Total: 14 (for good students) and 6 (for slow learner students).</p> <p><i>(Note: In each Semester, there shall be various provisions for students like, Registration of Courses at the beginning, Dropping of Courses in the middle and Withdrawal from Courses towards the end, all being under the Faculty Members' advice. These facilities are required to ensure proper monitoring of students by Faculty Advisors, leading to their improved learning capabilities and minimizing their chances of failure in the Courses registered.)</i></p>
4.Examinations	<p><u>Continuous Internal Evaluation(CIE)</u> and <u>Semester End Examination(SEE)</u>, both having equal weightages in the students' performance in Course Work/Laboratory Work and other activities.</p> <p><i>(Note: The CIE shall be conducted by the Course Instructor throughout a Semester on dates to be announced in advance and the results made known to the students from time to time. This will be of help to the students to decide on Dropping of Courses or Withdrawal from Courses based on their performance and in consultation with their Faculty Advisors. However, the dates for SEE at all the Autonomous Colleges shall be jointly fixed by them in concurrence with the University without much deviation with regard to University's Academic Calender so as to facilitate the students in the 'transfer of credits'.)</i></p>

Table 1: A Typical Breakdown of Academic Year into Semesters (to be in line with the regulations made by university in this regard)	
5. A Typical Calendar	<p><i>1st Main Semester(Odd Semester):</i> <i>1st August - 10th December, 19 Weeks.</i> <i>Recess: 11th December - 31st December, 3 Weeks.</i></p> <p><i>2nd Main Semester(Even Semester):</i> <i>01th January - 13th May, 19 Weeks.</i></p> <p><i>Recess: 14th May - 30th May, (2 Weeks);</i></p> <p><i>Supplementary Semester:</i> <i>01th June - 25th July, 8 Weeks.</i></p> <p><i>Recess: 26th July-31st July (1 Week).</i></p> <p><i>Total: 52 Weeks.</i></p> <p><i>(Note: This calendar is to be used only as an example to assist the Autonomous Colleges to fix their respective calendars in consultation with the University. Specific time periods are to be provided in this calendar for Registration of Courses, Dropping of Courses and Withdrawal from Courses by the Colleges individually. Also, each College to provide for a 3-week Induction Programme for UG students at the beginning of their 1st Semester to meet the requirements of AICTE Model Curriculum for First Year UG students, Nov. 2017)</i></p>
6. Other Items	<ul style="list-style-type: none"> • Care shall be taken by each Autonomous College to ensure that the total number of days for academic work is ≥ 180/year. • Academic schedules prescribed at each College shall be strictly adhered to by it for success of the <i>Semester Scheme</i>. • <i>Supplementary Semester</i> shall be mainly used by the Colleges for conducting <i>Repeat Courses</i> for the benefit of slow learners/ repeaters. • Students having satisfactory CIE and attendance but, failed (F grade) in SEE, need not register for course/s and can appear for SEE as and hwn conducted. • Minimum, Maximum and Average Course loads per Semester shall be the same at all Autonomous Colleges and be fixed by prior consultation with the University.
<p>Note : The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.</p>	

5.0

Credit System:

5.1

General:

5.1 (a)

As the *Credit System* has many advantages over the conventional system of organizing academic programmes, it is necessary to introduce an appropriate *Choice Based Credit System (CBCS)* for the various programmes at Autonomous Colleges under the University.

5.1 (b)

In the *Credit System*, the course work of students is unitized and each unit is assigned *one credit* after a

student completes the teaching-learning process as prescribed for that *unit* and is successful in its assessment. However, there are different definitions followed in academic circles for the size of a *unit* and in turn, for a *credit*. This needs to be given careful consideration at the Autonomous Colleges.

5.1 (c) **Credit Definition:** As it is desirable to have uniformity in the definition of *credit* across all Autonomous Colleges under the University, the following widely accepted definition for *credit* shall be followed here. This can provide the good flexibility to the students and also strengthens *CBCS* under the University. Here, *one unit of course work* and its corresponding *one credit* (while referring to a Main Semester) shall be equal to:

1. 1-hour Lecture (L) per week per semester = 1 Credit
2. 2 hours Tutorial / (T) per week per semester = 1 Credit
3. 2 hours Practical/Laboratory/Drawing (P) per week per semester = 1 Credit.
4. Four-credit theory courses shall be designed for 50 hours of the Teaching-Learning process.
5. Three-credit theory courses shall be designed for 40 hours of the Teaching-Learning process.
6. Two-credit theory courses shall be designed for 25 hours of the Teaching-Learning process
7. One credit theory course shall be designed for 15 hours of the Teaching-Learning process

The following additional factors may also be noted in this connection:

- *The above figures shall be multiplied by a factor of 2 in the case of the Supplementary Semester, and*
- *Other student activities which are not demanding intellectually or which do not lend to effective assessment, like practical training, study tours, attending guest lectures shall not carry any credit.*

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

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

5.2 **Credit Structure:**

5.2 (a) A typical *Credit Structure* for coursework based on the above definition is given in Table 2. This shall be applicable for the coursework of students registered for UG, PG and Research Programmes at the Autonomous Colleges.


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

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.

5.2 (b) **Major Benefits:** Major benefits accruing to Autonomous Colleges by adopting the *Credit System* are listed below:

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

It is necessary to specify the appropriate eligibility requirements for a Degree/ Diploma/Certificate award based on course work (like UG, PG) by prescribing the total number of *credits* to be earned, as an alternative to specifying the Programme Duration (as indicated in Section 4.3(a)).

- 5.3 **Course Load:**
- In the planning of Coursework for an academic programme like, UG/PG/ Research Degree, PG Diploma and Certificate at Autonomous Colleges, it is therefore necessary to specify the average Course load for a student per semester as well as its minimum and maximum limits. Here again, uniformity shall be maintained in these parameters across all Autonomous Colleges under the University, so as to benefit the students.
- 5.3 (a) Looking at the prevailing practices at leading institutions in India and abroad in this respect, taking into account the AICTE Model Curricula for UG Programmes (issued from time to time) and considering the academic strength and capability of an average student, the course load at all Autonomous Colleges under the University shall be fixed at 22 *credits/semester(average level)* with its minimum and maximum limits being set at 16 and 28 *credits* respectively. This pattern shall be followed uniformly at each Autonomous College by making a provision in its time table for the students to register for 22 *credits* on an average in each semester.
- 5.3 (b) **Course Flexibility:** Each Autonomous College shall implement the practices for providing flexibility to its students in their academic programmes and to meet their varied needs.
- 5.3 (b) (i) **Faculty Advisor:** There shall be a *Faculty Advisor System, involving the regular faculty members*, to be established at each Autonomous College with each *Faculty Advisor* being assigned a group of students. The functions of *Faculty Advisor* shall be to:
- Advise the students in the group on all academic matters (like registration of courses, dropping of courses and/or withdrawing from courses),
 - Monitor the students' in the group for their individual academic performance,
 - Identify students in the group who are slow, average or fast learners to help them pace their studies /learning at the College based on their individual abilities, and
 - Serve as a *friend, philosopher and guide* to all of them in the group during their studentship at the College.
- 5.3 (b) (ii) With the *Faculty Advisory System* in place, a student to be normally permitted to register for the average course load in the first semester. And, based on the performance in the semester and faculty advice, he/she to continue with this load (for average and fast learners) or to reduce it to the minimum permissible (for slow learners) by dropping of/withdrawing from some course(s)/*credits* before the dates prescribed for these. This facility to assist the student to pace the course work, minimize the chances of failure in the course(s) and optimize the learning process.
- 5.3(b) (iii) The student's performance in the first semester shall be the basis for faculty advice on the number of *credits* to be registered in the second (or subsequent) semester, (to be within the minimum/maximum limits of 16/ 28*credits*). Further, faculty advice and close monitoring will help a slow learner to keep pace with the course work properly by reducing the course load, if required and to minimize the chances of failure in the semester.

- 5.3(b) (iv) The above will enable any student to properly plan his/her course load in each succeeding semester, by fixing it to be between ≥ 16 and ≤ 28 credit limits based on faculty advice and his/her academic performance in the previous semester. Faculty advice to be also useful to the student in identifying appropriate elective courses.
- 5.3 (b) (v) This experience will also help fast learners (or outstanding students) to accelerate their programmes by registering and maintaining up to the maximum (=28 credits) course load in each succeeding semester based on their performance in the preceding and the current semesters. *Such students to be able to complete the credit requirements of the programme in a shorter time, like 7 semesters in the case of B.E./B. Tech./B.Plan. like 9 semester in the case of B.Arch. as example.* In cases, the regulations / directions issued by the University shall be followed.
- 5.3(b) (vi) Similarly, slow learners need to register only for the minimum (=16) number of credits in each succeeding semester and strive to maintain good performance in all the courses registered and complete the total requirements for the programme at a slower pace, say 9 to 10 semesters in all, in the case of B.E./B. Tech. as example. However, the student has to complete the programme within the permitted maximum duration.
- 5.3(b)(vii) Each Autonomous College may introduce a well-organized *Faculty Advisory System*, effective examinations/assessment system and a comprehensive Academic Calendar prescribing specific dates for each activity (as in Table 1), for achieving positive results.
- 5.3 (c) The total number of credits to be earned by a student to qualify for the Degree/ PG Diploma/Certificate award from each Autonomous College shall be as given in Table 3

Table 3: Total Minimum Number of Credits to Qualify for Degree/PG Diploma/Certificate Award			
Programme		Normal Duration: Years (Semesters)	Minimum number of Credits to be Earned
UG Degree	<i>B.E./ B. Tech.</i>	4.0 (8)	160
	<i>B.E / B.Tech. (Lateral entry)</i>	3.0 (6)	120
	<i>B. Arch.</i>	5.0 (10)	260 -300(as per COA)
PG Degree	<i>M. Tech.</i>	2.0 (4)	88
	<i>M. Arch.</i>	2.0(4)	100
	<i>M.B.A.</i>	2.0(4)	100
	<i>M.C.A.</i>	2.0(4)	100
	<i>M.Plan.</i>	2.0 (4)	100
PG Diploma		1.0 (2)	44
Certificate		0.5 (1)	22

Note : The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

- 5.3 (d) **Contact Hours:** Considering the expectations from engineering professionals with UG, PG and Research Degrees in the 21st century, it is desirable to limit the number of contact hours for students at Autonomous Colleges under the University to 30-35/week. This will be of help to students in getting enough time and opportunity to do better preparation for the courses prescribed for *credit*, to take up *self-study*, to develop their creative talents and abilities and benefitting from the *Add-On* courses and those taken for *audit*. This can also enable them to get ready for challenging and exciting careers ahead. A typical example showing the calculation of *contact hours* based on course *credits* is given in Table 4:

Table 4: Calculation of Contact Hours/Week - An Example			
Typical Course Load per Semester			
No. of Courses	Credits/ Course	Total Credits	Contact hours per week
Three Lecture Courses	3:0:0	9	9
Two Lecture cum Tutorial Courses	3:1:0	8	10
Two Lecture cum Laboratory Courses	3:0:1	8	10
One Lecture, Laboratory cum Tutorial Course	1:1:1	3	5
Total		28	34

6.0

Curriculum Framework:

6.1

General Issues:

6.1 (a)

Curriculum Framework is important in setting the right direction for a Degree/ PG Diploma/Certificate programme at an Autonomous College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen branch or specialization area. This will also help in assigning the *credits* for each course, sequencing the *courses* semester-wise and finally arriving at the total number of *courses* to be studied and the total number of *credits* to be earned by a student to fulfill the requirements for the conferment. The Autonomous Colleges shall also take into account the AICTE Model Curricula notified from time to time and follow them so as to be abreast of the national trends in this connection.

6.1 (b)

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


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6.2 B.E./ B.Tech. Degree Programme

The Curriculum Framework for a *B.E./B. Tech.* Degree programme is given below as an example. The programme shall include the following Courses.

6.2 (a) **Recommended Courses:** These include coursework under the following categories:

- Humanities, Social Sciences, and Management Courses (HSMC)
- Basic Science Courses (BSC)
- Engineering Science Courses (ESC)
- Professional Core Courses (PCC)
- Professional Elective Courses (PEC)
- Open Elective Courses (OEC)
- Integrated Professional Core Courses (IPCC)
- Project Work: Mini-project work and Major Project work
- Seminar
- Internship (INT)
- Non-Credit Mandatory Courses (NCMC)
- Ability Enhancement Courses(AEC)
- Universal Human Values Courses(UHV)

6.2 (b) **Mandatory Courses (MC) and Other Requirements:** The UG Degree programmes also require the inclusion of certain courses necessary for familiarity of subjects, like Environmental Studies, Constitution of India, Communication Skills, Chosen Language Knowledge/ Proficiency, NSS, NCC, Sports, Yoga as *Mandatory Courses*. Such courses shall not carry any *credit* for the award of the Degree. A pass in each course during the programme shall be a necessary requirement for the student to qualify for the Degree. Hence, each Autonomous College under the University shall take suitable steps to organize the *Mandatory Courses* as required and to include the student's performance (like, pass or fail) in such course(s) in his/her transcript.

These Mandatory Courses shall be as notified by University from to time to time

6.2 (c) **Induction Programme and Internships:** It is necessary to include a 3-week Induction Programme for the first-year B.E./B. Tech. students at the beginning of their 1st Semester, as per the requirements of AICTE in its Model UG Curriculum (Feb. 2018). Besides, there is also a mandatory requirement of Internships to be undertaken by all the UG students as specified by the University from time to time. The Autonomous Colleges shall ensure that both these are fulfilled.

6.2 (d) **Allocation of Credits for B.E./B. Tech. Degree Programme:** Looking at the UG Engineering Degree programmes practiced at leading institutions in India and abroad and the need for Indian engineering

professionals to be able to meet the 21st century challenges, it is necessary for each Autonomous College to follow the breakdown of coursework as given in **Table 5**. It is expected that this breakdown will lead to a highly useful and respectable *B.E./B.Tech.* Degree programme under the University. While it shall be required for all the Autonomous Colleges under the University to follow the percentage range of total number of *credits* allocated under each course category, each College can fix the actual (average) number of *credits* for each category to suit its own needs. On similar lines, the allocation of *credits* can be proposed for *B. Plan./B. Arch.* Degree programme at the Autonomous Colleges under the University.

Structure of Undergraduate Engineering program

Sl. No.	Category	AICTE Breakup of Credits (Total 160)	Proposed Breakup of Credits (Total 160)
1	Humanities and Social Sciences including Management courses	12*	10
2	Basic Science courses	25*	23
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	24*	20
4	Professional Core Courses	48*	43
5	Professional Elective courses relevant to chosen specialization/branch/ Ability Enhancement Courses	18*	14
6	Open subjects - Electives from other technical, emerging, arts commerce and NCC/NSS subjects/ Ability Enhancement Courses	18*	14
7	Mini and Major Project work /seminar/ Summer Internship and Research /Industrial Internship	15*	32
8	Mandatory Non- Credit Courses [Environmental Sciences, Induction training, Indian Constitution, Universal Human Values, Kannada] . This is as per AICTE. However, University has adopted these courses as Mandatory courses with credits		04
	Total	160*	160

*Minor variation is allowed as per need of the respective discipline (As per report of Expert Committee)

6.2 (e)

Sequencing of Courses for B.E./B.Tech. Degree: The above breakdown of the *B.E./B. Tech.* Degree curriculum shall form the basis for proper sequencing of the coursework for the programmes at all Autonomous Colleges under the University. Based on this, a typical sequencing plan for coursework for *B.E./B.Tech.* Degree programme at Autonomous Colleges is given in Table 6. Autonomous Colleges shall also take into account the provisions in the AICTE Model Curriculum while finalizing the sequencing of courses. A similar sequencing plan can also be proposed for *B. Plan./B. Arch.* Degree programme

launched at Autonomous Colleges under the University.

Semesters	Course Categories
I –II	<ul style="list-style-type: none"> • HSMC, BSC, AEC, and ESC, Common for all Programmes <i>as per AICTE Model Curriculum.</i> • MC and Mandatory <i>Induction Programme (3 weeks).</i>
III-IV	<ul style="list-style-type: none"> • HSMC, BSC, AEC, and ESC, Common for all Programmes (to be continued). • IPCC, INT • Also, MC (to be continued, if required). • PCC: In two/three groups (<i>like Circuit, Non-Circuit</i>). • Area-wise Orientation, Add-On Courses.
V-VII	<ul style="list-style-type: none"> • PCC/PEC/OEC, Core and Electives. • IPCC, AEC, HSMC • Branch-wise Orientation, Add-On Courses, Seminar, <i>Internship.</i>
VIII	<ul style="list-style-type: none"> • PEC/OEC, Electives, Project work(PROJ), Dissertation. • Add-On Courses, Seminar, Final wrap-up of Programme.

6.3

PG Degree programmes

Autonomous Colleges under the University may conduct a variety of PG programmes like *M. Tech, M.Plan, M.Arch., M.B.A, and M.C.A.* Following on similar lines as in Table 5, a typical allocation of *credits* for each of these programmes is now given in Tables 7 to 9. Here, *hard core* includes all compulsory Courses, whereas *soft core* covers a choice to be made from among the suggested compulsory *Courses*. While it is desirable for all the Autonomous Colleges under the University to follow the percentage range of total number of *credits* allocated under each category, the College shall be free to fix the actual (average) number of *credits* under each category. On similar lines, allocation of *credits* can also be proposed for the *M. Arch.* Degree programme at Autonomous Colleges under the University.

Course Category	Proposed Breakup of Credits
Core Courses (Hard/Soft)	22
Electives (Specialization/Other)	30
Project Work	30
Industrial Internship, Seminar& Field Work	06
Total	88

Table 8: A Typical Breakdown for the M.B.A Degree Curriculum	
Course Category	Proposed Breakup of Credits
Core Courses (Hard/Soft)	50
Electives (Specialization/Others)	25
Seminar	05
Field Work/Internship & Project Work	20
Total	100

Table 9: A Typical Breakdown for the M.C.A. Degree Curriculum	
Course Category	Proposed Breakup of Credits
Core Courses (Hard/Soft/ Labs)	62
Electives (Specialization/Other)	12
Seminar, Mini Project with Lab	04
Industrial Internship and Project Work	22
Total	100

Note : *The scheme and norms of University as amended from to time shall be applicable for all the under graduate and postgraduate programme offered in the Autonomous institutions.*

6.4 Coursework of Research Degree Programmes:

Autonomous Colleges under the University conducting M S by Research and Ph.D.programmes shall follow the University Regulations in respect of coursework, comprehensive, open seminars, colloquium and online submission of thesis for dual evaluation followed by for the award of these Degrees. The provisions in the most recent version Regulations shall be incorporated suitably in the Regulations of each Autonomous College.

7.0 Suggested Assessment Guidelines:

7.1 Achievement Testing:

7.1 (a) The assessment of students' performance in coursework during and/or at the conclusion of a programme has to be done using examinations. In general, an examination may have different objectives, like achievement-testing, prediction-testing, endurance-testing, creativity-testing and testing for ranking.

7.1 (b) In technical education, the assessment has to be preferably of the *achievement- testing* type, so that a student's knowledge, understanding and competence in the courses studied are properly assessed and


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certified. Therefore, Autonomous Colleges under the University are required to introduce proper reforms in the examination system to achieve this goal. The guidelines given below enable the Autonomous Colleges to achieve this goal and gain the confidence and respect of their stake holders, particularly students. Typically *achievement- testing* is done in two parts as follows, both of them being important in assessing a student's achievement

- **Sessional: Involving Continuous Internal Evaluation(CIE)**, to be conducted by the course instructor all through the semester. This may include mid-term tests, weekly/ fortnightly class tests, homework assignments, problem solving, group discussions, quiz, seminar, mini-project and other means.
- **Terminal**, covering **Semester-End Examination (SEE)**, to be conducted by the course instructor jointly with an external examiner at the end of a semester, on dates to be fixed at the College level. This may include a written examination for theory courses and practical/design examination with built-in oral part for laboratory/design courses.

7.1 (c) Both CIE and SEE being equally important in judging the coursework performance of students, they need to be conducted with equal rigour and equal seriousness in the *credit system*. This makes it necessary that both of them are assigned equal (50:50) weightage. And, a student's performance in coursework shall be judged by taking into account the results of both CIE and SEE individually and also together by giving equal weightage for them. This practice shall be followed at all Autonomous Colleges under the University.

7.2 Suggestive Question Papers guidelines:

7.2 (a) **Question Paper Pattern:** For an effective *achievement testing* of students in a course, a good question paper needs to be used as the principal tool. This makes it necessary for the question papers used at CIE and SEE to;

- Cover all sections of the course syllabus uniformly.
- Be unambiguous and free from any defects/errors.
- Emphasize knowledge testing, problem solving and quantitative methods.
- Contain adequate data/ other information on the problems assigned, and Have clear and complete instructions to the candidates.

7.2 (b) **Question Paper Planning:** The above requirements make it necessary for a Question Paper to cover the entire syllabus, with a provision for the students to answer questions from the whole syllabus. As students need to be given some choice in the questions included in the Paper, it is necessary for the Question Papers at SEE, in particular, to have built in choice under each module of the syllabus. This factor shall be taken note of and strictly followed by each Autonomous College, while planning of the Question Papers.

7.2 (c) Besides, it is also necessary for the Course syllabi to be drafted properly, be defect-free and also properly given in modular form to enable the setting of good question papers covering the whole

syllabus. These aspects have to be taken into account, in particular, by the Boards of Studies at Autonomous Colleges under the University.

7.2 (d) **Typical Question Paper:** The questions to be included in the Question Papers at CIE and SEE can be of two types as follows and the course instructors as well as the external examiners shall have to be well trained/experienced to set them.

- *Multiple Choice Question*, having each question to be answered by tick marking the correct answer from the choices (commonly four) given against it. Such a question paper to be useful in the testing of knowledge, skills, comprehension, application, analysis, synthesis, evaluation and understanding of the students. However, Question Papers for CIE and SEE to include *no more than* 15-20% of questions of this type.
- *Comprehensive Questions*, having all questions of the regular type to be answered in detail. Such a Question Paper to be useful in the testing of overall achievement and maturity of the students in a course through long questions relating to theoretical/practical knowledge, derivations, problem solving, modeling, simulation, design, application and quantitative evaluation.

7.3 Examinations:

7.3 (a) **Maintenance of Standards:** For ensuring a high standard in both CIE and SEE fully meeting the provisions of the University Regulations and being able to declare the results of students' performance at both these in a time bound manner as per their Academic Calendars, each Autonomous College may follow a few suggestions given below for conducting the examinations:

7.3 (a) (i) **CIE:** The CIE shall be conducted exclusively by the course instructor. The instructor to spell out the components of CIE to the students in advance, maintain transparency in its operation, declare the evaluation results in time and then return the answer scripts and assignment sheets to them as soon as possible. The instructor to also solve the questions from these test papers during tutorial sessions for the benefit of all the students concerned, especially slow learners.

Every autonomous College will have Moderation Committee for CIE. The Constitution and functions will be same as that defined in University Regulation and directions issued from to time.

7.3 (a) (ii) **SEE:** The SEE shall be conducted jointly by the course instructor and an external examiner appointed for this purpose by the Autonomous College. Here, the external examiner to mainly associate with the work of Question Paper setting, because of the difficulties in having him/her for conducting the evaluation of students' answer scripts due to the tight time schedule for the various tasks connected with SEE, as covered in sub-sections (iii) and(iv) below.

7.3(a) (iii) **SEE Answer Scripts:** The answer scripts of SEE may be normally evaluated by the course instructor only. But as a healthy step, a Departmental Committee at each Autonomous College to preferably oversee this task and ensure the quality and standard of evaluation and also of the *grades* awarded in


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all the cases. The next step to be taken before declaring the results, to include an external review of the SEE conducted.

7.3 (a) (iv) **External Review of SEE:** An external review shall be conducted under the aegis of the Board of Studies/Board of Examiners of the Autonomous College by appointing a panel of experts from outside the College for this purpose aiming at a complete review of SEE operation in the College. This may include such steps as, *question paper review, checking random samples of answer scripts, moderation, analysis of results/grades awarded and other related aspects.* This step to be also necessary for gaining the confidence of the University and of the society at large, on the fairness, transparency and acceptability of the examination practice among the stakeholders. The details of the same shall be properly maintained in the respective autonomous College and shall be submitted to the University as and when asked for.

7.3 (b) **Attendance Standards:** All students of Autonomous Colleges under the University shall maintain a minimum attendance of 85% in each course registered. In case of any short fall in this, the Academic Council of the College shall consider the same and may condone the deficiency in special cases up to 10%. Any student failing to meet the above standard of attendance in any course(s) registered may not be allowed to appear for SEE of such course(s). and such course shall be marked as NE (Not eligible to appear for SEE).

The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

7.3 (c) **Attendance at CIE and SEE:** Attendance at all examinations, both CIE and SEE of each course registered shall be compulsory for the students and there shall not be any provision for re-examinations. Any student against whom any disciplinary action by the College/University is pending may not be permitted to attend any SEE in that Semester.

7.3 (d) **Passing Standards:** High standards shall be maintained in all aspects of the examinations at Autonomous Colleges under the University. For this purpose, each Autonomous College shall follow the *standards of passing* at CIE and SEE for each Course, registered, as given in Tables 10 and 11(*Please see Section 8 on Grading*):

Evaluation Method	Passing Standard
Sessional (Continuous Internal Evaluation - formative assessment)	Score: $\geq 40\%$
Terminal (Semester End Examination-summative assessment)	Score in (CIE +SEE) leading to the award of Letter Grade $\geq C(5)$. (covered in Section 8.2(d)). Score $\geq 35\%$

Table 11: Passing Standards at Colleges using Absolute Grading	
Evaluation Method	Passing Standard
Sessional (Continuous Internal Evaluation)	Score: $\geq 40\%$
Terminal (Semester End Examination)	Score: $\geq 35\%$
Overall Score for passing is $\geq 40\%$	

Note: The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

7.3 (e) **Project work Evaluation:** The evaluation of CIE of the project work shall be based on the progress of the student in the work assigned by the project supervisor periodically evaluated by him/her together with a Departmental Committee constituted for this purpose at each Autonomous College. Seminar presentation, project report(dissertation) and final oral examination conducted by a common Project Evaluation Committee at the College level shall form the SEE of the project work.

7.3 (f) In the case of other requirements, such as seminar, industrial internship, field work, comprehensive viva voce, if any, the assessment shall be made as laid down by the Academic Council of the concerned Autonomous College.

7.3 (g) **There shall be no re-examination for any Course in the credit system** to take care of such students:

- (i) Who have absented themselves from attending CIE or SEE without any valid reason;
- (ii) Who have failed (Grade F) to meet the minimum passing Standard prescribed for CIE and/or SEE;
- (iii) Who have been detained for shortage of attendance in any coursework;
- (iv) Who have withdrawn (Grade W) from a Course.

Such students shall be required to re-register for the Course(s) and go through CIE and SEE again and obtain a *Grade E or better* (see Tables 10 and 11) in each case. While such students shall have to re-register for the same Course(s) if *hard core*, they can re-register for alternative Course(s) from among the *soft core or elective* Courses, as the case may be. The re-registration shall be possible only when the particular Course is offered again either in a *main (Odd/Even) or a supplementary semester*.

7.3 (g) **Successive Failures:**

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 may choose a course of his / her choice with the same number of credits from the pool of courses stipulated by the concerned Board of Studies. The course so selected should not have been studied by the student or to be studied in higher semester/s. The faculty advisor shall guide/advise the student in this regard. The college has to make arrangements for the registration, conduction of CIE for the selected course.

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

However, this is optional and the student can prefer to repeat the same course in which he/she has failed repeatedly.

Note: The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

- 7.3 (h) **Monitoring/Assessment for Research Degrees:** Students registered for Research Degrees at Autonomous Colleges shall be monitored and assessed at each College level by following the prescribed procedure as outlined in the relevant University Regulations Governing the MS by research/Ph.D. Degrees notified from time to time. These provisions may be suitably included in the Regulations of each Autonomous College. This shall be read with 4.4. (a)

8.0

Grading

8.1 General:

- 8.1(a) In recent years, the grading system has replaced the evaluation of students' performance in a Course based on absolute marks, because of its many advantages. Therefore, Autonomous Colleges under the University shall follow this practice. Here again, it is necessary to maintain uniformity in the grading practices at different Colleges to ensure that the migration of students or transfer of credits among Autonomous Colleges under the University is made easy.

- 8.1(b) Letter Grade: Course Letter Grade (or simply letter grade or grade) is an index of performance of a student in a said course and refers to a qualitative measure of achievement of a student in each course, based on the percentage range of marks secured in CIE and SEE put together or CIE alone. Grades are denoted by letters O, A+, A, B+, B, C, P and F. The rubrics attached to letter grades are as follows:
O – Outstanding, A+ – Excellent, A – Very Good, B+ – Good, B – Above Average, C – Average, P- Pass and F – Fail. If student remain absent for SEE of any of the course, the letter grade assigned to that course shall be F. NE: If a student fails to satisfy Attendance and / or CIE requirement for course/s then such course/s shall be marked as Not Eligible (NE)" i.e. Not eligible to appear for SEE in that Courses/s.

Letter Grade and corresponding Grade Points on a typical 10 - Point scale

Letter Grade and corresponding Grade Points on a typical 10 - Point scale								
Letter Grade	0	A+	A	B+	B	C	P	F
	Outstanding	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Grade	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

Note: The Autonomous Institutes shall follow

- Compulsorily follow the above grading pattern as suggested by NSQF. This will facilitate the migration of the students across institutions/ Universities and also in the implementation of ABC.
- any other notification issued by the University in this regard from time to time.

8.1(c) There are different approaches possible for the grouping of raw score (marks). But, the most useful one is based on the computation of statistical measures like mean and standard deviation of the raw score (marks) of all the students attending a Course to separate out the letter grade groups. This approach facilitates relative grading of the students, which has many advantages over the conventional absolute grading, like, freedom from the difficulty level of Question Papers used, absence of personal bias and influence of evaluation norms/standards adopted by the examiner. Hence, this approach may be preferably followed at Autonomous Colleges under the University for awarding letter grades against the raw score (marks) obtained by the students.

8.1(d) Relative Grading: In the relative grading approach, statistical quantities, such as, mean (μ) value and standard deviation(σ) for the raw score (marks) in (CIE + SEE) obtained by the students of a Course shall be evaluated first. And then, the range of marks for each letter grade shall be assigned as follows:

- F grade: $<(\mu - 1)\sigma$;
- E grade: $\geq (\mu - 1)\sigma$ to $<(\mu)$;
- D grade: $\geq(\mu)$ to $<(\mu + 1)\sigma$;
- C grade: $\geq(\mu + 1)\sigma$ to $<(\mu + 1.5)\sigma$;
- B grade: $\geq(\mu + 1.5)\sigma$ to $<(\mu + 2.0)\sigma$;
- A grade: $\geq(\mu + 2.0)\sigma$ to $<(\mu + 2.5)\sigma$; and,
- S grade: $\geq(\mu + 2.5)\sigma$.

8.1(e) **Absolute Grading:** While it is most desirable to follow the system of relative grading at all the Autonomous Colleges it is noticed that they need specific preparation to introduce this system. Hence, the Colleges may adopt the absolute grading system in the initial years of academic autonomy and take steps to move to relative grading from absolute grading eventually. Such Autonomous Colleges adopting the absolute grading system may prepare proper plans to move to the relative grading system at the earliest. The plans so prepared may be got approved by their respective Academic Councils and implemented soon. The University may be kept informed of this by the College concerned within a fortnight of the change- over of the grading system.

8.2 Grade Points:

8.2 (a) Depending on the letter grades assigned, a student earns certain grade points. As the grading system can have different scales for grade points (like 5, 8, 10.) with more number of points in the scale being desirable for providing higher resolution in the assessment. Moreover, all Autonomous Colleges under the University need to follow the same scale for uniformity in their operations. Hence, the Autonomous Colleges under the University shall follow the 10-point grading system, as given in Table 12 for both the relative grading system and the absolute grading system.


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Letter Grade and corresponding Grade Points on a typical 10 – Point scale

Table - 12 Letter Grade and corresponding Grade Points on a typical 10 – Point scale								
Letter Grade	0	A+	A	B+	B	C	P	F
	Outstanding	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Grade	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

Note: The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.

- 8.2 (a)(b) The *grade points* given in Table 12 will help in the evaluation of *credit points* earned by the student in a Course as the *credit points* are equal to the number of credits assigned to the Course multiplied by the *grade points* awarded to the student in that Course. This shall be used in arriving at the *credit index* of the student for that semester, as it is the sum total of all the *credit points* earned by the student for all the Courses registered in that semester.
- 8.2 (a)(c) **Earning of Credits:** A student shall be considered to have completed a Course successfully and earned *credits* if he/she secures an acceptable *letter grade* in the range **O-P**. *Letter grade* F in any Course implies failure of the student in that Course and no *credit* shall be earned.
- 8.2 (a)(d) **Transitional Grades:** The *transitional grades*, such as, 'I', 'W' and 'X' shall be awarded to a student in the following cases. These *grades* need to be converted into one or the other of the *letter grades* (O-F) after the student completes his/her Course requirements, including the examinations.
- (i) **Grade 'I':** Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:
- Illness or accident, which disabled him/her from attending SEE;
 - A calamity in the family at the time of SEE, which required the Student to be away from the College;
 - Any other verifiable exigency.
- (ii) **Grade 'W':** Awarded to a student having satisfactory attendance at classes, but withdrawing from that Course before the prescribed date in a semester as per *faculty advice*.
- (iii) **Grade 'X':** Awarded to a student having high CIE rating (≥ 90) in a Course, but SEE performance observed to be poor, which could result in an overall F Grade in the Course.
- 8.2 (a)(e) **Make-up Examination:** The *Make-up Examination* facility shall be available to the students who may have failed to attend the SEE of one or more Courses in a semester for valid reasons and given the 'I' grade. Students having the 'X' grade shall also be eligible to take advantage of this facility. The *Make-up Examination* shall be held immediately after announcement of SEE results.

- 8.2 (a)(f) All the 'I' and 'X' *grades* awarded to the students shall have to be converted by the Controller of Examination in concurrence with instructors concerned to appropriate *letter grades* and communicated to the College Authorities within *two days* of the respective *Make- Up Examinations*. Any 'I' and 'X' *grades* still not converted within two days after the last scheduled *Make-Up Examinations* shall be automatically converted to 'F' *grade*.
- 8.2 (a)(g) All the 'W' *grades* awarded to the students shall be eligible for conversion to the appropriate *letter grades* only after the concerned students re-register for these Courses in a main(*Odd/Even*)/supplementary semester and fulfill the passing standards for their CIE and (CIE + SEE)as prescribed at the Autonomous College.
- 8.2 (a)(h) **Grade Card:** Each student shall be issued a *Grade Card* (or transcript) at the end of each semester. While this will have a list of all the Courses registered by a student in the semester together with their *credits*, the *letter grades* with *grade points* awarded in each case and those with *grades 'I', 'W' and 'X'*, only those Courses registered for *credit* and having *grade points* shall be included in the computation of the student's performance, like *SGPA* and *CGPA*. And, the Courses taken for *audit* will not form part of this computation. The results of *mandatory courses*, which are of the *non-credit* type, shall also be reflected in the *Grade Card* as *PP (for Passed)* or *NP (for Not Passed)*. It may be noted that each UG student shall have to obtain the *grade PP* in each *mandatory course* to qualify for the Degree award by the University.

8.3 **Grade Point Averages:**

SGPA and CGPA: The *credit index* can be used further for calculating the Semester Grade Point Average (*SGPA*) and the Cumulative Grade Point Average (*CGPA*), both being important academic performance indices of the student. While *SGPA* is equal to the *credit index* for a semester divided by the total number of *credits* registered by the student in that semester, *CGPA* gives the sum total of *credit indices* of all the previous semesters divided by the total number of *credits* registered in all these semesters. Both the equations together facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Thus, *equations for SGPA and CGPA shall be as per the VTU Regulations for respective programmes notified from time to time. The Autonomous colleges shall not deviate from the same.*

Computation of SGPA and CGPA

The following expressions shall be used to compute the Semester Grade Point Average (*SGPA*) and Cumulative Grade Point Average (*CGPA*) respectively:

$$SGPA = \frac{\sum [CourseCredits \times GradePoints] \text{ for all the Courses applied in that semester excluding transisional grade}}{\sum [CourseCredits] \text{ for all the Courses applied in that semester excluding transisional grade}}$$


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$$\text{CGPA} = \frac{\sum[\text{CourseCredits} \times \text{GradePoints}] \text{ for all Courses excluding those with F and transisional grades until that semester}}{\sum[\text{CourseCredits}] \text{ for all Courses excluding those with F and transisional grades until that semester}}$$

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards. SGPA and CGPA calculation.

8.4 Vertical Progression:

Vertical progression shall be as per VTU Regulations and notifications for respective programmes notified from time to time. The Autonomous colleges shall not deviate from the same.

8.5 Class Designation:

Class Designation shall be as per VTU Regulations and notifications for respective programmes notified from time to time. The Autonomous colleges shall not deviate from the same

8.6 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 table may be referred for the conversion of the CGPA on 10-point scale into the percentage of marks for employment / higher studies, etc.

$$\text{Percentage} = \text{CGPA} \times 10$$

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 $40 \leq M \leq 50$

8.7 Minimum CGPA of 5 for award of Degree:

(1) Noncompliance of CGPA ≥ 5.00 at the end of the Program

- (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.
- (B) In such cases, 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.

(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 repeat the procedure.

- (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 repeat the procedure.
- (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 students shall repeat the procedure.
- (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 students shall repeat the procedure.
- (G) The student shall obtain written permission from the Controller of Examination of respective College to reappear in SEE to make up the CGPA equal to or greater than 5.00.

9.0

Other Academic Matters:

9.1 Choice Based Credit System:

9.1 (a) It is compulsory to implement a *Choice Based Credit System* for academic programmes at all the Autonomous Colleges under the University. This will be of considerable benefit to the students for customizing their programmes of direct interest to them, developing their individual capabilities and talents and preparing them for exciting careers ahead in the 21st century.

9.1 (b) The Autonomous Colleges shall provide for the following:

- (i) Easy access to the Schemes of Instruction, Syllabi, *Credit Structure* of programmes and the Courses being conducted by all students (either in print or in electronic form) so as to assist them in course work planning.
- (ii) Institutionalizing the conduct of course work by adopting a centralized time table for all the programmes at a College, with a view to assist the students in customizing their programmes and also optimizing the use of physical facilities.

Establishing a dynamic *Faculty Advisory System* at each College with 5-10 students assigned to an Advisor, for guiding them in planning/implementing their course work in a flexible and effective manner and also monitoring them.

9.2 Time Schedules:

- (a) **Academic Schedules:** It is necessary to specify various time schedules in the Academic Calendar of each Autonomous College to assist the students and also the faculty. These

include, dates assigned for registration of courses, dropping of courses and withdrawal from courses. This enables the students to be well prepared, minimize their chances of failure in CIE and/or SEE and take full advantage of the flexibility provided by the *credit system*. Here again, uniformity across the University shall be followed by the Autonomous Colleges in the interest of the students.

(b) Registration of Courses: Each student of an Autonomous College shall have to register for coursework at the beginning of a semester. The permissible Course load to be either *average number of credits* in the 1st Semester of a programme or to be within the limits of *minimum and maximum credits* prescribed in each later Semester. A period of 2-3 days to be specifically assigned for this event in the Academic Calendar for the students to seek faculty advice, discuss with the course instructors and complete the formalities.

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

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

9.2 Temporary Withdrawal and Readmission:

A student shall be permitted to withdraw temporarily from an Autonomous College under the University on grounds like, prolonged illness, grave calamity in the family or any other serious happening. The withdrawal and readmission shall be as per the regulations / directions issued by the University.

9.3 Rejection of Results :

There shall be a provision for the rejection of total performance of a semester and re-registration for the semester. This shall be done only once in the entire course of studies. However, rejection of performance of 8th semester project work is not permitted.

9.4 Termination from the Programme:

A student shall be required to withdraw from the programme and leave the Autonomous College on the following grounds:


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- (i) Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent Authority.
- (ii) Failure to meet the standards of discipline as prescribed by the Autonomous College from time to time.

9.5

Students' Feedback:

- (a) It is necessary for Autonomous Colleges under the University to obtain feedback from students on their course work and various academic activities conducted under the *credit system*. For this purpose, suitable feedback forms shall be devised by the Colleges and the feedback obtained from the students in confidence regularly, by administering the feedback form in print or on-line in electronic form. A Report on the Feedback received and its Action Taken Report shall be uploaded on the College website regularly in a time bound manner and also be forwarded to the University.
- (b) The feedback received from the students shall be discussed at various levels of decision making at the Autonomous Colleges and the changes/ improvements, if any, suggested shall be given due consideration for implementation at the Colleges.

9.5

Recommendations for Degree Award:

- (a) Each Autonomous College shall upload the every SEE results in the University web portal without fail.
- (b) Each Autonomous College shall forward its recommendations to the University in respect of students qualifying for UG/PG/ Research Degree Awards based on their success in the examinations/adjudication of theses as the case may be after receiving approval from the Authorities/ Bodies of the College concerned.
- (c) The Autonomous College shall also ensure that each such student in (a) has fulfilled all the requirements for the Degree Award.
- (d) Only those students recommended for the Degree Award shall be entitled to receive the relevant Provisional Certificates/Transcripts from the College at this stage.
- (e) The university reserves the right to withdraw a degree even though it has been granted should there be discovery that the work upon which it was based or the academic records in support of it had been falsified. In such a case the degree will be withdrawn promptly upon discovery of the falsification.

9.6

Graduation Ceremony:

- (a) Each Autonomous College shall have its own annual *Graduation Ceremony* for the award of Degrees (Provisional Certificates) to the students completing the prescribed academic and other requirements in each case as per the lists recommended to the University, in prior consultation with the University and by following the provisions in the University Statutes.
- (b) Autonomous Colleges may institute Prizes and Awards to meritorious students, for being given

away annually at the *Graduation Ceremony*. This will greatly encourage the students to strive for excellence in their academic activities.

10.0

Other Issues:

10.1 (a)

Quality/Standard:

The quality/standard of engineering professionals is closely linked with the level of the technical education system. As it is now recognized that these features are essential to develop the intellectual skills and knowledge of the professionals for being able to contribute to the society through productive and satisfying careers as *innovators, decision makers and/or leaders* in the global economy of the 21st century, it becomes necessary that certain improvements are introduced at different stages of their education system.

10.1 (b)

These requirements include:

- (i) Selective admission of students to a programme, so that merit and aptitude for the chosen technical branch or specialization are given due consideration.
- (ii) Faculty recruitment and orientation, so that qualified teachers trained in good teaching methods, technical leadership and students' motivation are available.
- (iii) Instructional/Laboratory facilities and related physical infrastructure, so that they are adequate and at the contemporary level.
- (iv) Access to good library resources and Information and Communication Technology (ICT) facilities, to develop the student's *self-learning abilities*.

Adequate opportunities and facilities for the development of the student's *aptitudes and attitudes* so that the professionals are conscious of social/other responsibilities.

10.2

Suggested Improvements:

(a)

These requirements make it necessary for the Autonomous Colleges to introduce improvements in their operations, like:

- (i) Teaching-learning process on modern lines, to provide *Add-On Courses* for *audit/credit* in a number of peripheral areas useful for students' self- development.
- (ii) Facilitating the use of MOOCs (Massive Open Online Courses) in the coursework up to a level prescribed by the Council with a view to enable the students to acquire state-of-the-art Science and Technology knowledge.
- (iii) Life-long learning opportunities for faculty, students and alumni, to facilitate their dynamic interaction with the society, industries and the world of work.
- (iv) Regular updating of the physical infrastructure, laboratories and other academic facilities to be at the contemporary level.
- (v) Generous use of ICT and other modern technologies in everyday activities.


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10.3 Accreditation/Ranking:

10.3(a) Each Autonomous College shall get all its eligible UG/PG programmes periodically assessed and accredited by NBA or any other accrediting Body acceptable to the University and ensure that all of them have a high rating as specified by the UGC and University in its Regulations for Autonomous Colleges/as amended from time to time. Besides, each Autonomous College shall ensure that the accreditation ratings are in the validity period.

10.3(b) Each Autonomous College shall also endeavour to get its performance ranked annually under National Institutional Ranking Framework (NIRF) or any other institutional ranking Body acceptable to the University and take necessary steps to be among the top Colleges nationally.

11 Monitoring :

11.1 IQAC Cell shall be established in College for regular monitoring. The IQAC cell shall have the composition and shall perform functions as defined in University Statutes. The extension of Autonomous Status is subjected to Report of the Peer Team.

11.2 Though Autonomy is granted for the period as notified by the UGC, every year each college/ institute shall upload the data in the University's affiliation portal. There shall visit of University's LIC team every year.

11.3 All the Autonomous Colleges must submit the Academic calendar to the University without fail.

12 Governance :

Each autonomous College shall have the statutory bodies as defined and function defined in University Statutes.

13 Faculty Student and Faculty cadre ratio:

In is mandatory for an Autonomous Institute shall maintain the teacher student ratio of 1: 15 and need to maintain the cadre ration as per AICTE norms.

14 Annual Returns:

Each Autonomous College under the University shall be required to submit (within four weeks of completing an academic year) an *Annual Return* to the University in the prescribed proforma annexed herewith, providing information on the observance of the above during the previous academic year. The University may issue its *observations and directions* periodically to each Autonomous College based on the data/information provided in its Annual Return and the Autonomous College shall comply with these requirements.

15 Interpretation:

15.1 Any question as to the interpretation of these *Guidelines and norms* shall be decided by the University, whose decision shall be final and binding on the Autonomous Colleges in the matter. The University shall also have the power to issue clarifications to remove any doubt, difficulty or anomaly, which may arise in regard to the implementation of these *Guidelines and norms* .

- 15.2 These *Guidelines and norms* should be read as a whole for the purpose of any interpretation.
- 15.3 In case of any doubt or ambiguity in the interpretation of the above *Guidelines and norms* , the decision of the Vice Chancellor is final.
- 15.4 The University may change or amend these *Guidelines and norms* at any time and the changes or amendments made shall be applicable to all the autonomous Colleges with effect from the dates notified by the University.

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Annx I

: Supplementary / Fast Track semester:

- The students who have satisfied CIE and Attendance requirements for the course/s and obtained F grade in SEE are permitted to appear directly in ensuing examination/s as backlog paper/s. The students need not re-register for such course/s in the supplementary/ fast track semester. In case the student wishes to improve CIE/ he/she has to re-register for supplementary / fast track semester as and when offered next.
- The student who obtains required attendance and CIE in supplementary semester, but obtains 'F' grade in SEE, is permitted appear for SEE subsequently as backlog course/s. The student need not repeat course for Attendance and CIE.
- The course/s for which the student does not possess satisfactory attendance and CIE score, shall be marked as NE in the Grade sheet. Such students are not permitted for SEE for the Courses marked as NE in Grade sheet. The students have to re-register only for course/s marked as NE in supplementary/ subsequent semester whenever that course is offered semester and obtain the required CIE and attendance. Subsequently, they are eligible to appear for SEE in such course/s.
- Courses with Transitional Grades Viz "W" , " I", and "X" are also eligible to register in supplementary semester (refer 8.2 (a)(d) for definition of these grades) in case if they wish to improve the score in CIE.
- All courses may not be offered in the Supplementary semester. It is the discretion of the College to offer the courses based on the availability of resources. The Institutes shall notify time table for Supplementary semester well in advance .
- Supplementary Semester is optional; it is for the student to make best use of the opportunity. Supplementary semester is a special semester and the student cannot demand it as a matter of right.
- A student is permitted to register for a maximum of 16 credits in Supplementary / fast track semester.
- A student has to choose those courses which are offered by the Institution in a given Supplementary Semester.
- In the supplementary semester, each course need to be offered for required number of lectures/ tutorial/ laboratory hours as prescribed in the syllabus

When to offer Supplementary semester:

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

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Below said Annexures (are subject revision by the University) should be submitted mandatorily by the end every year. The same shall be verified by the peer committee and submit it's report to University.

(This Proforma to be filled in and returned to the Registrar VTU, Belagavi, *within four weeks* of completion of the previous academic year, both by e-mail and in hard copy form with each page affixed with signature of Principal of respective College.)

1. General:

(a) Name and Address of the College:

(b) Name of the Principal:

(c) E-mail ID:

Tel. No.:

Fax No.:

(d) Autonomy granted for (*Please tick mark, whichever is applicable*): UG/PG/Research

- Cycle of Autonomy :

- List of Programmes covered (Use only approved abbreviations):

i) UG

ii) PG

iii) Ph.D.

- New Programmes launched during the year, if any:

(e) Academic Year Covered:

(f) Date of the Return:

2. Information on Students/Courses:

(a) :Total No. of *students* admitted in the Autonomous Programmes:

- UG Level:

Approved Intake: _____

Year 1	Year 2	Year 3	Year 4	Year 5

- PG& Research Levels:

Approved Intake: _____

Year 1	Year 2	Year 3

(b) Total No. of *Courses/Credits* offered in the Autonomous Programmes:

- UG Level:


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Main Semester 1 (<i>Odd</i>) Courses/Credits	Main Semester 2 (<i>Even</i>) Courses/Credits	Supplementary Semester Courses/Credits

Date on which syllabus revision, if any, was approved by the Academic Council: _____

- PG & Research Levels

Main Semester 1 (<i>Odd</i>) Courses/Credits	Main Semester 2 (<i>Even</i>) Courses/Credits	Supplementary Semester Courses/Credits

Date(s) on which syllabus revision, if any, was approved by the Academic Council: _____

3. Information of Academic Calender:

Semester	Starting Date	Dates of SEE	Date of SEE Results	Closing Date	Recess Dates
<i>Odd</i> UG PG& Research					
<i>Even</i> UG PG& Research					
<i>Supplementary</i> UG PG& Research					

Dates on which *Make-Up* examinations, if any, were conducted:

Odd Semester _____ *Even Semester* _____ *Supplementary Semester* _____

4. Information on Students' Performance:

(Please include additional columns in the following tables, if required.)

(a) UG- *Odd Semester*:

Course No.						
No. of Students <i>Registered</i>						
No. of Students <i>Dropping</i>						
No. of Students Not admitted to <i>SEE</i>						
No. of Students <i>Failing</i>						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade:						
O						
A+						

A						
B+						
B						
C						
P						

(b) UG-Even Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade:						
O						
A+						
A						
B+						
B						
C						
P						

(c) UG-Supplementary Semester:

Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grade: I W X						
% of Students Awarded Grade:						
O						
A+						

A						
B+						
B						
C						
P						

(d) Method of *Grading* employed (Please tick mark, whichever is applicable);

- Absolute Grading:
- Relative Grading:

(e) No. of UG students failing in *mandatory courses*, if any:

(f) PG& Research-*Odd Semester*:

Course No.						
No. of Students <i>Registered</i>						
No. of Students <i>Dropping</i>						
No. of Students Not Admitted to <i>SEE</i>						
No. of Students <i>Failing</i>						
No. of Students with Transitional <i>Grades I</i> <i>W X</i>						
% of Students Awarded <i>Grade</i> :						
O						
A+						
A						
B+						
B						
C						
P						

(g) PG& Research-*Even Semester*:

Course No.						
No. of Students <i>Registered</i>						
No. of Students <i>Dropping</i>						
No. of Students Not Admitted to <i>SEE</i>						
No. of Students <i>Failing</i>						
No. of Students with Transitional <i>Grades I</i>						

W	X						
% of Students Awarded Grade:							
O							
A+							
A							
B+							
B							
C							
P							

(h) PG& Research- *Supplementary Semester*:

Course No.							
No. of Students Registered							
No. of Students Dropping							
No. of Students Not Admitted to SEE							
No. of Students Failing							
No. of Students with Transitional Grades	I						
	W	X					
% of Students Awarded Grade:							
O							
A+							
A							
B+							
B							
C							
P							

(i) Method of Grading employed (Please tick mark, whichever is applicable):

- Absolute Grading:
- Relative Grading:

(j) No. of PG& Research students year wise, detained from *vertical progression*, if any:

5. If **Supplementary Semester is not arranged**, describe the method followed at the College to enable students with *dropped, withdrawn failed courses and/or any other criteria*, to meet the credit requirements for vertical progression:
6. **Any other relevant information** on the functioning of autonomy at the College:

Certificate:

It is certified that the information provided above is true to the best of my knowledge and belief. If required, the records maintained at the College will be made available for the scrutiny of University Authorities.


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PRINCIPAL
 With seal



**Regulations Governing the Degree of Bachelor of
Engineering/Technology (B.E./B.Tech.)
Effective from the Academic Year 2021-22**

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**Regulations Governing the Degree of Bachelor of
Engineering/Technology (B.E./B.Tech.)
Effective from the Academic Year 2021-22**

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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. Semester:** Refers to one of the two sessions of an academic year (vide: serial number 3), each session being of sixteen weeks' duration (with not less than 90 working days).The odd and even semesters shall be as per the University academic calendar.
- 3. Academic Year:** Refers to two consecutive semesters (odd followed by an even) sessions, including intervening periods.
- 4. Course:** Usually referred to as subject and is a component of a Program. All Courses may not carry the same weightage. Each Course will have course objectives and course 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 components etc., or a combination of some of these.
- 5. Credit:** Refers to a unit or weightage by which the Coursework is measured. It represents the number of hours of instructions prescribed per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork etc., per week.
- 6. Choice Based Credit System (CBCS):** The education model refers to customizing the Coursework, through 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.
- 7. Course Registration:** Refers to formal registration to Courses of study in every semester by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor, Class teacher, etc.), in the Institution to maintain the proper record. Registration to the University portal is mandatory.



- 8. Course Evaluation:** Represents the measurement of the impact of the teaching-learning process and offers an opportunity for improving the quality of learning in courses and teaching 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 later part of the evaluation is called Semester End Evaluation (SEE).
- 9. Continuous Internal Evaluation (CIE)**(also known as formative assessment): Refers to the evaluation of students' 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, seminars, etc., conducted during the semester tenure with a weightage for different activities as specified by the University.
- 10. Semester End Examinations Evaluation (SEE)**(also called summative assessment): Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi shall be modularized, and SEE questions shall be set from each module as specified by the University.
- 11. First Attempt:** Refers to some students who have studied in a current semester and have attended any one of the University examinations of that semester after satisfying attendance and CIE requirements of all the prescribed courses of that semester and registering for SEE. Such an attempt shall be considered as the first attempt. Even if students absent themselves for all the semester examinations after registering for SEE, such an attempt shall also be considered the first attempt.
- 12. 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.



Table-1, Calculation of Credits

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.

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

17. 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, B, C, D, E, 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. If a student remains absent for SEE of any of the course/s, the letter grade assigned to that course shall be **F**. If a student is not eligible for appearing, SEE due to non-comply of any of the course/s then the letter grade assigned against that course shall be **NE**

- 18. Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale against a preconceived range of percentage of marks secured by students in a course as shown in Table 2.

Table 2, Letter Grade and corresponding Grade Points on a typical 10 – Point scale

Letter Grade and corresponding Grade Points on a typical 10 – Point scale								
Letter Grade	0	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

- 19. Passing Standards:** Refers to passing a Course only when GP is greater than or equal to **04**.
- 20. 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.
- 21. Semester Grade Point Average (SGPA):** Refers to the measure of a student's academic performance 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.
- 22. 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 a but weighted mean. It is also a number that lies between 0 and 10.
- 23. 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, number of attempts, and alternate course taken instead of successive failure after 4 attempts) along with the SGPA of that semester and CGPA (except for the first semester) earned till that semester.



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- 24. Academic Bank of Credits (ABC):** The Academic Bank of Credits (ABC), is a national-level facility which will promote the flexibility of the curriculum framework and interdisciplinary/multidisciplinary academic mobility of students across the HEIs in the country with appropriate “credit transfer” mechanism.
- 25. Multiple Entry Multiple Exit:** The multiple entries and exit points in the academic programs offered at Higher Education Institutions (HEIs) would remove rigid boundaries and create new possibilities for students. There are occasions when learners have to give up their education mid-way for various reasons. To facilitate flexible learning within the stipulated period (eight years for regular students and 06 years for lateral entry students), multiple exist and entry options are given to the needy students. The student can exit from the program only at the end of the even semester/s (2nd, 4th, and 6th semester) and the entry option is provided to the students at the beginning of the odd semester/s (3rd, 5th and 7th 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	Prescribed Number of Credits for the Program (a) The total number of credits to be earned by students admitted to the first semester of 04 years B.E./B.Tech., the program shall be 160 . (b) The total number of credits to be earned by students admitted to the third semester of 04 years B.E./B.Tech., program under lateral entry scheme shall be 120 . (c) A student shall be eligible to obtain an Undergraduate degree with Honours / Minors , if he/she earns minimum additional 18 credits, as specified by university norms from time to time regarding the earning of additional credits[To be read along with Regulations Governing the Award of Honors/ Minors in B.E./B.Tech., Degree Programs].
	210B1.3	(a) Definition of Credits: 1. 1-hour Lecture (L) per week per semester =1 Credit 2. 2 hours Tutorial / (T)per week per semester =1 Credit 3. 2 hours Practical/Laboratory/Drawing (P) per week per semester =1 Credit. 4. Four-credit theory courses shall be designed for 50 hours of the Teaching-Learning process. 5. Three-credit theory courses shall be designed for 40 hours of the Teaching-Learning process. 6. Two-credit theory courses shall be designed for 25 hours of the Teaching-Learning process 7. One credit theory course shall be designed for 15 hours of the Teaching-Learning process
210B2.0	Academic Eligibility for admission	
	210B2.1	Admission to 1st year: Eligibility for candidates who have Passed Second PUC or equivalent I. As notified by the Government of Karnataka from time to time II. Those students, who have passed a qualifying examination other than



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		<p>the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain an eligibility certificate for seeking admission to 1st year B.E./B.Tech. Degree Program from Visvesvaraya Technological University, Belagavi.</p>
	210B2.2	<p>Admission to 2nd year (Lateral Entry): Eligibility for candidates who have Passed a 3-years Diploma in Engineering and B.Sc. Degree</p> <p>I. As notified by the Government of Karnataka and university from time to time for admission to 3rd-semester B.E./B.Tech., degree program</p> <p>II. Those candidates who have completed Engineering Diploma from other than Karnataka state shall submit the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</p>
	210B2.3	<p>Qualification earned from foreign countries:</p> <p>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 in this regard shall be final and binding on all concerned.</p>
210B3.0	Minimum and Maximum Duration of the program	
	210B3.1	<p>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</p> <p>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.</p>



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210B4.0	Courses and Course Registration	
	210B4.1	<p>There shall be the following types of Courses:</p> <p>(a) Humanities, Social Sciences, and Management Courses (HSMC): These are mandatory for all disciplines.</p> <p>(b) Basic Science Courses (BSC): Physics, Chemistry, and Mathematics. These are mandatory for all disciplines.</p> <p>(c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Civil/ Mechanical/ Computer Engineering, etc. These are mandatory for all disciplines.</p> <p>(d) Professional Core Courses (PCC): These are the professional Core Courses, relevant to the chosen specialization/ branch. The core courses shall be compulsorily studied by students and it is mandatory to complete them to fulfill the requirements of a Program.</p> <p>(e) Professional Elective Courses (PEC): These 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</p> <p>(f) Open Elective Courses (OEC): These are the Elective Courses from other technical areas and/ or from emerging fields. Students of other departments shall opt for these courses to fulfilling of eligibility and prerequisite mentioned in the syllabus.</p> <p>(g) Integrated Professional Core Courses (IPCC): It refers to Professional Theory Core Course Integrated with Practical of the same course. Credit for IPCC shall be 04 considering L: T: P as 3:0:1 or L:T:P as 2:1:1, (where L,T and P represents credits not hours per week)</p> <p>(h) Project Work: Mini-project and Project work carried out at the parent Institution or any university / Government recognized organization without affecting the regular class work.</p>



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		<p>(i) Seminar: Each student has to present the seminar on specific topic chosen from the relevant field /list provided by the department under the supervision of a faculty coordinator.</p>
		<p>(j) Internship (INT): The internship (a form of experimental learning) program not only helps fresh pass-outs in gaining professional know-how but also benefits corporate sectors. The internship also enhances the employability skills of the student passing out from Technical Institutions</p>
		<p>(k) Non-Credit Mandatory Courses (NCMC): These Courses are mandatory, without the benefit of a grade or credit, passing in each mandatory Course is required to qualify for the award of degree.</p>
		<p>(l) Ability Enhancement Courses (AEC): These courses are designed to help students to enhance their skills in communication, language, and personality development etc. They also promote a deeper understanding of courses like social sciences, ethics, culture, human behavior human rights, and the law. Ability Enhancement Courses are based upon the content that leads to Knowledge enhancement.</p>
		<p>(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</p>
	210B4.2	<p>Course Registration: In order to maintain a proper academic record at the Institution, every student shall register for the Courses of a semester (Credit) under the supervision of a Faculty Advisor (also called Mentor, Counselor, class teacher, etc.,) at the beginning of each semester. The registration of courses in each semester with the University portal is mandatory.</p>



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	21OB4.3	The minimum number of students registered to any professional Elective Course/Open Elective Course /Ability Enhancement course (from 3 rd 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.
	21OB4.4	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.
21OB5.0	Attendance Requirement	
	21OB5.1	Every prescribed course shall be considered as a unit for the calculation of attendance. All students are required to attend all the lectures, tutorials, practicals, and other prescribed curricular and co-curricular activities, and thus the attendance is 100%. However, the candidate has to put in a minimum attendance of 85% in each course with a provision for condoning up to 10% 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 NSS/NCC/Red cross/National level Republic Day and Independence Day Parade/participation in University/State/ National/ International levels 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).



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	210B5.2	<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>
	210B5.3	The Course Instructor/ Mentor/Class-teacher or the College office 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.
	210B5.4	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 grade card for such courses shall be marked as NE (not eligible). The candidate shall be required to repeat that course/s whenever that course/s offered next.
	210B5.5	<p>If a student fails to satisfy the attendance requirement of the course/s of the semester, he/she will not be permitted to appear for SEE of that course/s. However, the student will be allowed to appear for the Semester End Examination (SEE) for other courses of the semester.</p> <p>The student will repeat the course/s in which he/she falls short of attendance only, whenever the course/s is offered next.</p> <p>These courses of shortage of attendance will not be considered for vertical progression.</p>
210B6.0	Internship	
	210B6.1	Internship: 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.

The Internship shall be completed during the period specified in the Scheme of Teaching and Examinations. There will be three internships:

- 1) **Inter/Intra Institutional Internship:** (In the case of the students admitted to 1st-year B.E./B.Tech. program) All the students admitted to engineering programs shall have to undergo a mandatory summer internship of 03 weeks during the intervening semester period of the II and III semesters. The internship shall include Inter / Intra Institutional activities (refer to Annexure-IV). CIE shall be carried out during the Internship period/III semester and prescribed marks shall be included in the IV semester grade cards.

Inter/Intra Institutional Internship: (In case of students admitted under Lateral Entry): All the students admitted to engineering programs under the lateral entry category shall have to undergo a mandatory internship of 03 weeks during the intervening semester period of the III and IV semesters. The internship shall include Inter / Intra Institutional activities (refer to Annexure-IV). CIE shall be carried out during the Internship period/IV semester and prescribed marks shall be included in the IV semester grade cards.

Inter /Intra Institutional Internship will have only CIE and no SEE.

- 2) **Innovation/Societal/Entrepreneurship-based Internship:** During the intervening period of IV and V semester the Internship of 04 weeks period shall be carried out in industries /Govt. organization/NGO/MSME. Focus may be given to Rural Internship/Innovative activities and Entrepreneurship (Social/Industrial). CIE shall be carried out during the Internship



period/V semester and prescribed marks shall be included in the VI semester grade cards. **Innovation/Societal/Entrepreneurship based, will have only CIE and no SEE.**

3) Research Internship/Industry Internship of 24 weeks duration:

At the beginning of the IV academic year, students can opt for VII semester course work or VII semester Internship depending on the opportunities available for enrolling to either Research Internship or Industry Internship. With reference to this, both VII and VIII semesters shall be in progress simultaneously. Research Internship / Industry Internship shall be carried out at Industry / government organizations, non-governmental organizations (NGOs)/ Micro, Small & Medium Enterprises (MSME) /Research and development organizations/Organizations of National or international repute/Institution Research Centers / Innovation and Incubation Centres/Start-ups /entrepreneur cells. The institution shall encourage students to take up (i) interdisciplinary Research Internship or Industry internship and (ii) rural internship, a work-based activity carried out to learn practical experiences in rural areas, for the upliftment of living standards. In case students want to undergo an internship at his/her family business, he/she shall be permitted to provide; a declaration by a parent that is submitted directly to the Principal of the Institution. With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside the state or abroad), provided favourable 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 organization.

University Viva-Voce examination shall be conducted at the end of



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the internship period. Research Internship /Industry Internship shall be considered as head of passing and shall be considered for the award of the degree. Those who do not complete the internship shall be declared fail and shall have to complete it during subsequent University examinations after stratifying the internship requirements during subsequent semesters.

Responsibilities of Department and Guides:

1. The Department/college shall nominate department coordinator /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/diary 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 100 marks for CIE for Inter/Intra Institutional Internship and Innovation/Societal /Entrepreneurship based Internship. For Research /industry internship 100 marks for CIE and 100 marks for SEE. The minimum requirement of CIE and SEE marks shall be 40% and 35% of the maximum marks respectively. In total, the student has to secure 40% of the course maximum marks i.e., the sum of the CIE and SEE marks prescribed for the course.
5. The internal Guide and one senior faculty shall be the internal examiners for CIE Inter/Intra Institutional Internship and Innovation/Societal /Entrepreneurship based Internship.
6. For Research /Industry Internship, 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 /examination Chief Superintendent of the



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		Institute appointed by the University shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide.
210B7.0	Technical Seminar	
	210B7.1	Technical Seminar: Technical Seminar is one of the heads of passing. <ul style="list-style-type: none">i. Each student has to present the seminar on a specific topic chosen from the relevant field /list provided by the department under the supervision of a faculty coordinator.ii. The Head of the Department/designated coordinator for technical seminar shall make arrangements for the conduct of seminars through a committee of faculty members of the Department. The committee constituted for the purpose of 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 senior-most among them is to act as the Chairperson. There is no SEE for the seminar.
210B8.0	210B8.1	Mini-Project: A Mini Project is a laboratory-oriented course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications Based on the ability/abilities of the student/s and recommendations of the mentor, a single disciplinary or a multidisciplinary Mini-project can be assigned to an individual student or a group having not more than 4 students. There is only CIE and no SEE for Mini-Project.
	210B8.2	Project Work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single disciplinary or a multidisciplinary 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.



210B9.0 Continuous Internal Evaluation (CIE)	
210B9.1	At the beginning of the semester, the course instructor or the faculty who is teaching the course shall have to announce the methods used for CIE.
210B9.1a	<p>Continuous Internal Evaluation Procedure:</p> <p>The minimum CIE marks to be secured in all courses shall be 40% of the maximum marks for successful completion of courses having only CIE marks and appearing for SEE in case of courses having both CIE and SEE marks. (refer Annexure VIII)</p> <p>Theory Courses (03 Credits):</p> <p>Three 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>Seminar/quiz/group discussion suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)</p> <p>The total CIE marks shall be the sum of the marks secured in each of the tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks.</p>
210B9.1b	<p>Integrated Professional Core Courses (IPCC): Theory Integrated with practical Courses. (4 Credits)</p> <p>The CIE marks for the theory component of the IPCC shall be 30 marks and for the laboratory component 20 Marks.</p> <p>CIE for the theory component of IPCC</p> <p>Two 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



Two assignments each of **10 Marks**

- First assignment at the end of 4th week of the semester
- Second assignment at the end of 9th week of the semester

CIE for the practical component of IPCC

- 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.

Scaled-down marks of write-up evaluations and tests added will be CIE marks for the laboratory component of IPCC for **20 marks**.

- The minimum marks to be secured in CIE to appear for SEE shall be the 12 (40% of maximum marks) in the theory component and 08 (40% of maximum marks) in the practical component. The laboratory component of the IPCC shall be for CIE only. However, in SEE, the questions from the laboratory component shall be included. The maximum of 05 questions to be set from the practical component of IPCC, total marks of all questions should not be more than the 25 marks.

The theory component of the IPCC shall be for both CIE and SEE.



210B9.1c	Theory Course with 01 credit Three Tests (preferably in MCQ pattern with 20 questions) each of 20 Marks (duration 01 hour) <ol style="list-style-type: none">1. First test at the end of 5th week of the semester2. Second test at the end of the 10th week of the semester3. Third test at the end of the 15th week of the semester Two assignments each of 10 Marks <ol style="list-style-type: none">1. First assignment at the end of 4th week of the semester2. Second assignment at the end of 9th week of the semester Quiz/Group discussion/Seminar, any two of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours) The sum of total marks of three tests, two assignments, and quiz /seminar/ group discussion will be out of 100 marks and shall be scaled down to 50 marks
210B9.1d	Theory Course with 02 credits CIE will same as 1 credit theory course for the 1st and 2nd semester; however, for higher semesters depending upon the type of the course, the CIE pattern may be MCQ type (100 questions) or the same as other core theory courses. CIE methods /question paper is designed to attain the different levels of Bloom’s taxonomy as per the outcome defined for the course. At the beginning of the semester, the instructor/faculty teaching the course has to announce the methods of CIE for the course.
210B9.2 210B9.2a	Engineering Graphics/ Drawing /Field Works: Engineering Graphics /Drawing / Engineering Visualization Course <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



210B9.2b	<p>added and scaled down to 30 marks.</p> <p>2. One class test similar to SEE will be conducted after completion of the syllabus for 100 marks and scaled down to 20 marks.</p> <p>3. CIE marks (out of 50) scored by the student shall be the sum of class work evaluation and test marks.</p> <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> <p>Continuous Evaluation(CIE) of Field Work</p> <p>Surveying Practice / Socio-Economic survey/ Marketing survey/traffic survey/ environmental survey. 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 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.</p> <p>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 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	<p>Practical Courses:</p> <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>



- 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. (Split-up of marks for CIE is as 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 shall be 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 split up of marks can be designed to evaluate each student's performance and learning ability (Split-up of marks is as suggested in Annexure-I).
- The average of 02 tests is scaled down to **20 marks** (40% of the maximum marks).

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.

Internal tests for laboratory courses with software experiments will be conducted for 100 marks

Observation, write-up of procedure/ Algorithm/program, and execution of experiment will be assessed for 80 marks and Viva-voce for 20 marks.



	Scored marks out of 100 is scaled down to 50 marks
210B9.4	<p>Internship: The Internship shall be taken up during the period specified in the Scheme of Teaching and Examinations.</p> <p>The Department/ College shall nominate faculty member/s to facilitate, 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">• Inter/Intra Institutional Internship 03 weeks• Innovation /Societal /Entrepreneurship based Internship 04 weeks• Industry / Research Internship 24 weeks <p>There shall be only a CIE of 100 marks for Inter/Intra Institutional Internship and Innovation /Societal /Entrepreneurship based Internship.</p> <p>Inter/Intra Institutional Internship and Innovation /Societal /Entrepreneurship based Internship (refer 210B6.1, part B point 4 and 5). However, Research / Industry internship will have both CIE and SEE components (refers to 210B6.1, part B point 6 to 9).</p> <p>Report evaluation for Research / Industry internships shall be evaluated for 50% maximum marks – The split-up of marks suggested for report evaluation shall 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)



	<p>for report) and</p> <ul style="list-style-type: none">• Technical content of the report (40% of marks for CIE for report) <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>Viva-Voce conducted for 50% of marks of CIE. The split-up of marks 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>
210B9.5	<p>Technical Seminar:</p> <p>The Technical Seminar performance evaluation shall be through CIE only. The Technical Seminar is one of the heads of passing. The maximum marks prescribed for CIE shall be 100. The 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>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 senior-most acting as the Chairperson.</p> <p>Split up of Marks suggested</p>



	<p>Report marks to be allotted by the seminar guide/s</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>Seminar Presentation marks to be allotted by the committee: (25 marks)</p> <p>Viva-Voce (Question answer session): 25 marks</p> <ul style="list-style-type: none">• Understanding of fundamentals and concepts (15 marks)• Clarity in answering the questions (10 Marks)
210B9.6	<p>Mini – Project: (also refer 210B8.1 page 15)</p> <p>The Mini-Project shall be under CIE only. The maximum marks prescribed for CIE shall be 100. 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>50 marks of CIE for the report shall be evaluated by the faculty guide /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 two senior faculty members of the Department. This committee shall evaluate Mini-project Work for 50 marks considering project presentation and question-answer session.</p> <ul style="list-style-type: none">• Project presentation: 25 marks• Question and answer session:25 marks
210B9.7	<p>Project Work: The project work shall be evaluated considering both CIE and SEE; the maximum mark for CIE is 100.</p> <p>The maximum marks prescribed for CIE shall be 100. The CIE marks awarded for Project Work shall be based on the evaluation of the Project Report, Project Presentation skill, and Question and Answer session in the ratio of 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.</p>



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	<p>50 marks of CIE for the report shall be evaluated by the faculty guide /mentor who is guiding the project work.</p> <p>The Head of the Department shall make arrangements for the conduct of viva-voce evaluation of the project work. The committee shall consist of a guide/mentor and two senior faculty members of the Department. This committee shall evaluate Project Work for 50 marks considering project presentation and question-answer session.</p> <ul style="list-style-type: none">• Project presentation: 25 marks• Question and answer session: 25 marks <p>Split-up of marks to be followed for evaluation is suggested in Annexure-II</p>
210B9.8	<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 3 years after the announcement of University results and shall be made available for verification as per the direction of the Registrar (Evaluation).</p>
210B9.9	<p>Maximum and Minimum CIE and SEE Marks:</p> <p>The maximum CIE marks shall be 50. To appear for the SEE, the minimum CIE marks to be secured in all the courses shall be 40 % of the maximum marks.</p> <p>Inter/Intra Institutional Internship and Innovation /Societal /Entrepreneurship based Internship, Technical Seminar, Mini-Project Works will have only CIE component, maximum CIE marks shall be 100. Minimum CIE marks to be secured shall be 40% of the maximum marks, to qualify in these courses.</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 40% of the maximum marks i.e., 40 out of 100 marks.</p> <p>Maximum and Minimum SEE Marks:</p> <p>The maximum SEE marks for Research /Industry Internship, Major Project Work is 100, and minimum SEE marks to secure shall be 35% of the maximum marks i.e. 35 marks.</p>



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	<p>For remaining all the courses mentioned in the scheme of teaching and examination maximum SEE marks are 50 and minimum SEE marks to secure shall be 35% of the maximum marks i.e. 18marks</p> <p>No SEE component for Inter/Intra Institutional Internship and Innovation/Societal /Entrepreneurship based Internship, Technical Seminar and, Mini Project.</p>
210B9.10	<p>Any corrections or overwriting of CIE marks on the blue book/drawing sheet laboratory record etc., where CIE marks are awarded, shall bear the signature(s) of concerned Teacher(s) and the Head of the Department.</p>
210B9.11	<p>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 change of CIE marks shall not be considered.</p>
210B9.12	<ol 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 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.ii. 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.iii. Each appearance to SEE or absence after completing CIE and attendance requirements to complete a course shall be treated as an attempt.iv. The student shall be permitted to register for total courses not exceeding 28 credits. These 28 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



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		prescribed fee as notified by the University from time to time.
	210B9.13	CIE marks of those students, who come under 210B9.12 (i) and (ii), shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.
	210B9.14	<p>i. 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.</p> <p>ii. The college/institution shall enter the CIE marks of each semester in the format of the University 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.</p>
	210B9.15	<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 Moderating 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.</p> <p><i>Guideline for the moderation Committee-</i></p> <p>Moderation 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,</p>



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		<ul style="list-style-type: none">• Split-up of marks used for each of the different types of assessment in the course to be checked• Checking of the questions whether it maps with course outcomes.• Checking of the level of difficulty of questions paper i.e is difficulty level on the extremes, very easy or otherwise.• 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 (scheme of evaluation).</p>
21OB10.0	Semester End Examination (SEE) Marks and Passing standards	
	21OB10.1	<ol style="list-style-type: none">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.b. The University examinations for all the Programs of study shall be conducted at the end of each semester.c. 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<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.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.e. For all 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

- f.** For Practical/Fieldwork/ 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. Inter/Intra Institutional Internship, Innovation /Societal /Entrepreneurship based Internship, Technical Seminar and Mini-Project are not having any SEE component.
- g.** For 24 weeks of Research / 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.
- h. Students who satisfy the conditions (e), (f), and (g) above, and obtain any grade from O to P in a course shall be considered to have passed that course.**
- i. A student shall be declared fail if he/she**
- Fails to satisfy the conditions (h) above
 - Absents himself/herself to the University examination.
 - 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.
 - The course/s in which student/s fail to satisfy attendance and CIE requirement (NE courses) are also considered as F only.
- 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 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 NE (not eligible to appear for SEE due to non-comply of attendance and CIE) cases.

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



210B10.1a	Theory Course with 3 Credits Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the course(duration 03 hours) <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. The students have to answer 5 full questions, selecting one full question from each module.
210B10.1b	Integrated Professional Core Courses (IPCC): Theory Integrated with Practical Course SEE for the theory part (Duration 03 hours) is the same as that mentioned in serial no. 02 (questions mentioned in the SEE paper shall include questions from the practical component).
210B10.1c	Theory Course with 1 Credit SEE paper shall be set for 50 questions, each of 01 mark. The pattern of the question paper is MCQ (multiple choice questions). The time allotted for SEE is 01 hour
210B10.1d	Theory Course with 2 Credits SEE paper will be set for 100 questions each of 01 mark. The pattern of the question paper is MCQ (multiple choice questions). The time allotted for SEE is 120 minutes . Marks scored are scaled down to 50 Marks. The suggested question paper pattern is MCQ for the 1 st and 2 nd semester however, for higher semester/s depending on the type of the course SEE may be a written examination, a pattern similar to other theory courses as mentioned in clause 210B10.1a
210B10.1e	Engineering Graphics and Drawing(Laboratory Course) SEE shall be conducted and evaluated for maximum marks 100. Marks



<p>210B10.1f</p>	<p>obtained shall be accounted for SEE final marks, reducing it by 50%</p> <ol style="list-style-type: none">1. SEE will be conducted by the two examiners of same institute one act as Internal Examiner and other act as External Examiner.2. 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.3. Evaluation shall be carried out jointly by both the examiners as per the scheme. <p>Scheme of Evaluation: To be defined by the examiners jointly as per VTU norms</p> <p>Fieldwork</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.</p> <p>The duration of SEE is 03 hours.</p>
<p>210B10.1g</p>	<p>Practical Course</p> <p>SEE marks for the practical course shall 50 Marks.</p> <p>SEE shall be conducted jointly by the two examiners of the same institute one act as internal and another as external examiner. Examiners are appointed by the University.</p> <ul style="list-style-type: none">• All laboratory experiments are to be included for practical examination.• 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, a split-up of marks for evaluation 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 split-up of marks for SEE mentioned are procedure / writeup-20%, Conduction and result in -50%, Viva-voce 30% of maximum



<p>210B10.1h</p>	<p>marks. SEE for the practical course shall be evaluated for 100 marks and scored marks shall be scaled down to 50 marks (however, based on course type, split-up of the marks shall be decided by the examiners)</p> <ul style="list-style-type: none">● 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). <p>The duration of SEE is 03 hours.</p> <p>Research /Industry Internship</p> <p>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 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 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.</p> <p>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.</p>
<p>210B10.1i</p>	<p>Project Work:</p> <p>As project work is evaluated for 200 marks (CIE: 100 marks, SEE:100 marks), the marks awarded in SEE for 100 marks must take as it is to decide the letter grade along with the CIE marks also awarded for 100 marks. SEE for Project Work will be conducted by the two examiners one internal and one external examiner appointed by University. 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</p>



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	<p>ratio 50:25:25 as per the University norms jointly by the examiners.</p> <p>Split up marks to be followed are suggested for CIE or Internal and external examiners shall decide the split-up of marks for SEE and the same may be submitted to the University along with evaluation marks</p>
210B10.2	<p>Rejection of Result:</p> <p>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.</p>
210B10.3	<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 (210B14.1-7 and 210B3.1)</p> <p>(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.</p> <p>(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 (applicable only from 3rd semester onwards as per clause no. 210B14.1-1).</p> <p>(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</p>



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		<p>University Seat Number (USN).</p> <p>(iv) 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.</p> <p>(v) 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.</p>
	21OB10.4	<p>Registration for SEE is compulsory if the student/s has satisfied the attendance and CIE requirement of ODD /EVEN semester.</p> <p>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.</p> <p>In case, students fail to register for 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 student appearing for SEE, he/she has to register for SEE of odd and even semesters before completing the academic year.</p>
	21OB10.5	<p>Students who opt for rejection of results of University examination shall be eligible for the award of the degree and Minor Degree but not for the award of ranks and Honors degree.</p>
21OB11.0	Multiple Entry and Exit Option	
	21OB11.1	Entry 1: (at 1 st semester) A program of study leading to entry into the first



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		<p>year of the Bachelor's degree is open to those who have met the entrance requirements, including specified levels of attainment at the secondary level of education specified in the program admission regulations at clause no. 21OB2.1</p> <p>Exit 1: The exit option is given to the student at the end of year 1 (after the 2nd semester). The student has to complete all academic requirements of 1st year of the undergraduate program and earned requisite credits of 1st and 2nd semester and recommendation of the counselling team of the Institute.</p>
	21OB11.2	<p>Entry 2: (at 3rd semester) A program of study leading to the second year of the Bachelor's degree is open to those who have met the entrance requirements, including specified levels of attainment, in the program admission regulations clause no. 21OB2.2. Admission to a program of study is based on the evaluation of documentary evidence (including the academic record) of the applicant's ability to undertake and complete a Bachelor's degree program.</p> <p>This option is open to those who have left after completion of the 1st year of the program and want to join back for the continuation of their study subject to the condition of a maximum duration of 8 years from the date of 1st admission.</p> <p>Student opting for multiple entries a3rd-semester level has to undergo a mandatory Summer Internship-I (21INT49) of 03 weeks during the intervening period of semester III and IV. CIE shall be conducted in the 3rd semester and prescribed credits earned for the internship shall be entered into the grade card of the IV semester.</p> <p>Exit 2: The exit option is given to the student at the end of year 2 (after the 4thsemester). The student has to complete all academic requirements to complete the two years of the undergraduate program and earned requisite credits of 1st 2nd3rd and 4thsemesters and recommendation of the counselling team of the Institute</p>



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	210B11.3	<p>Entry 3. This option is open to those who have left after completion of the 2nd year of the program and want to join back for the continuation of their study subject to the condition of a maximum duration of 8/6 years from the date of 1st admission.</p> <p>A program of study leading to the Bachelor's degree is open to those who have met the entrance requirements, including specified levels of attainment. Admission to a program of study is based on the evaluation of documentary evidence (including the academic record) of the applicant's ability to undertake and complete a Bachelor's degree program.</p> <p>Students opting for multiple entries at the 5th-semester level have to undergo mandatory Summer Internship-II (21INT69) of 04 weeks during the intervening period of semesters V and VI. CIE shall be conducted in the 5th semester and prescribed credits earned for the internship shall be entered into the grade card of VI semesters.</p> <p>Exit 3. (after 6th semester) On successful completion of three years, the relevant degree shall be awarded. The student has to complete all academic requirements to complete the three years of the undergraduate program and earned requisite credits of 1st to 6th semester and recommendation of the counselling team of the Institute.</p>
	210B11.3	<p>Counselling Team:</p> <p>The students who choose to drop out (exit) undergo counselling to understand why they are making such decisions. The exit option is given to students only after the recommendation of the counselling team constituted by the Principal of the Institute.</p>
210B12.0	Grading	
	210B12.1	<p>The University adopts an absolute grading system wherein the marks are converted to grades, and every examination result shall be declared in terms of Semester Grade Point Average (SGPA) considering all the courses that appeared in that Semester End Examinations including backlog</p>



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course/s or 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 up to an academic session semester, except for the first semester.

210B12.2

The grading system with the letter grades and the assigned range of marks under the absolute grading system shall be as given below:

Letter Grade and corresponding Grade Points on a typical 10 - Point scale								
Letter Grade	0	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

If a student remains absent for SEE of any of the courses, the letter grade assigned in the grade card to that course shall be **F**. If a student is not eligible to appear for SEE due to non-comply of any of the course/s then letter grade assigned against that course/s shall be **NE**.

In the case of all the courses of the program, the maximum CIE marks shall be 50 and the maximum SEE marks shall be 50. The minimum CIE marks secured shall be **40%** of maximum marks, i.e. 20 out of 50 marks for passing. The minimum SEE marks to be secured shall be **35 %** of the maximum marks i.e., 18 out of 50marks for passing. In total, the student has to secure **40 % of the course maximum marks i.e.,** the sum of the CIE and SEE marks prescribed for the Course.



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	210B12.3	A student obtaining Grade F in a Course/s shall be considered to fail in that course/s and is required to reappear for the corresponding course/s in the subsequent SEE. Whatever the letter grade secured by the student in his /her reappearance shall be awarded. The number of attempts taken to clear courses/s shall be indicated in the grade card.
210B13.0 Computation of SGPA and CGPA		
	210B13.1	<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> <p>SGPA $= \frac{\sum[\text{CourseCredits} \times \text{GradePoints}] \text{ for all the Courses applied in that semester}}{\sum[\text{CourseCredits}] \text{ for all the Courses applied in that semester}}$</p> <p>CGPA = $\frac{\sum[\text{CourseCredits} \times \text{GradePoints}] \text{ for all Courses excluding those with F grades until that semester}}{\sum[\text{CourseCredits}] \text{ for all Courses excluding those with F grades until that semester}}$</p> <p>The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards. SGPA and CGPA calculation: An illustrative example for one academic year is shown in Annexure-III.</p>
	210B13.2	<p>Conversions of CGPA into Percentage of marks and Class Equivalence</p> <p>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;</p> <p>Percentage of marks secured, $M = \text{CGPA Earned} \times 10$</p> <p>Illustration for a CGPA of 8.20;</p> <p>Percentage of marks secured $M = 8.20 \times 10$ $= 82.0 \%$</p>
	210B13.3	<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</p>



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	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 $40\% \leq M \leq 50\%$
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210B14.0	Vertical progression
210B14.1	<p>All the below clauses are subject to a maximum duration of eight (for Regular Students) / six years (for Lateral Entry Students) as applicable.</p> <ol style="list-style-type: none">1) In case of students admitted to the first year:<ol style="list-style-type: none">(a) Students have to fulfill the attendance and CIE requirement to appear for SEE of course/s of 1st year (refer to clause no. 210B5.4)(b) Students having not more than four F grades in the 1st and 2nd semesters of the first year of the program shall be eligible to move to the 3rd semester (2nd year) of the program. These courses include courses marked as NE as per clause no. 210B12.2 and 210B10.1i(c) The students who fail to satisfy CIE and attendance requirement has to repeat the courses whenever offered next and become eligible for the 2nd year. (refer to clause no. 210B9.9 and 210B5.1)2) 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 has to mandatorily obtain the required CIE in the subsequent semester. Obtaining minimum CIE marks for the course is mandatory. It may also be noted that the student shall not be permitted to appear for SEE in such courses until he/she obtains the required CIE.(refer to clause no.210B9.9)3) Carryover of backlog courses: From 3rd semester onwards the student/s who obtains required attendance, CIE, and appears for university examinations but fails (F Grade) to pass a course/s is allowed to move forward to the next semester (odd /even) irrespective of a number of F



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		<p>grades. However, for the award of degree, the student has to pass in all courses as per applicable scheme and regulations and earn the prescribed credits. This is subject to a permitted maximum duration. It may also be noted that the student will be given admission to the IV year (7th semester/8th semester) provided he/she passes all courses of 1st and 2nd semesters.</p> <p>4) From the second year onwards there shall be no restriction from 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.</p> <p>5) Permitted Maximum credits for registration: The student shall be permitted to register for total courses not exceeding 28 credits. These 28 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.</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 may choose a course of his / her choice with the same number of credits from the pool of courses suggested by the concerned Board of Studies. The course so selected should not have been studied by the student or to be studied in higher semester/s. The faculty advisor shall guide/advise the student in this regard. The college has to make arrangements for the registration and conduction of CIE for the selected course.</p> <p>b) This provision is given only for two courses (one at a time) during the entire maximum duration of a course.</p>
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7) This provision is **optional**; the student/s can continue appearing for SEE with the same course without opting for a change of course as mentioned in clause 210B14.1-6a.

Readmission:

- a) 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.
- b) 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.
- 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.
- 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 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.

8) Permitted Maximum credits for registration:

The student shall be permitted to register for total courses not exceeding 28 credits. These 28 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..



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210B14.2	<ol style="list-style-type: none"> 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. 2) 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. 3) In case of any difficulty, Vice-Chancellor shall decide on individual cases, which shall be final. 												
210B15.0	Award of Degree												
210B15.1	<p>B.E./B.Tech. degree</p> <ol style="list-style-type: none"> (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: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Students Category</th> <th style="text-align: center;">Activity points prescribed by AICTE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Regular students admitted to the 4 years Degree program</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Students entering 4 years Degree programs through lateral entry</td> <td style="text-align: center;">75</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Students transferred from other Universities to the fifth semester</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>	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 programs through lateral entry	75	3	Students transferred from other Universities to the fifth semester	50
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		<p>The Activity Points earned shall be reflected on the student's eighth semester Grade Card.</p> <p>(i) AICTE 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 are listed in Annexure -VII</p>
	210B15.2	<p>B.E./B.Tech. (Honors) 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> <ul style="list-style-type: none">• (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 admitted students as per 210B15.1• (a.2) has earned additional 18 or more credits through University-approved online Courses.• (a.3) satisfied the Regulations Governing the Award of Honors at B.E./B.Tech. Degree Programs – Guidelines – Annexure-V
	210B15.3	<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> <ul style="list-style-type: none">• (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



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		<p>semester admitted student and 120 for III semester admitted student</p> <ul style="list-style-type: none">• (a.2)Has earned additional 18 or more credits through a University-approved courses list submitted by the board of studies. For Guidelines refer to Annexure-VI
210B15.4	Award of Degree for an Extraordinary Student:	<p>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 program 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 University and Institute immediately after completion of the program, notwithstanding the minimum duration.</p> <p>Aspirant students have to register with University through the Principal of the college at the 5th-semester level, with the prescribed registration fee as fixed by the University from time to time. A special provision to registering for more credits other than regular semester credits shall be made only after registration.</p> <p>The extraordinary student is one with a CGPA ≥ 9 in 2nd, 3rd, and 4th semesters and maintains the same in all the semesters. Otherwise, his/her registration will stand canceled automatically.</p>
210B15.5	(1) Noncompliance of CGPA ≥ 5.00 at the end of the Program	<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</p>



		<p>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 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.</p> <p>(3) Noncompliance of Major-project</p>
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		<p>The Project Work shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the Major-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Major-project requirements.</p> <p>(4) Noncompliance of Internship</p> <p>All the students of B.E./B.Tech. shall have to undergo mandatory internship as per 210B 6.1. 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.</p>
210B16.0	Award of Prizes, Medals, and Ranks	
	210B16.1	<p>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.</p>
	210B16.2	<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 semesters 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> <ul style="list-style-type: none">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 Courses/semesters of the same Scheme of



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		<p>Teaching and Examinations without any break/discontinuity.</p> <p>d) Has completed all the semesters (I to VIII for regular/III to VIII for 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 an 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 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>
	21OB16.3	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.
21OB17.0	Change of College: Transfer of students: The Regulations Governing the Change of College shall be followed (Annexure-IX).	
21OB18.0	Change of Branch: The Regulations Governing the Change of Branch shall be followed (Annexure-X)	
21OB19.0	Applicability and Power to Modify	
	21OB19.1	The regulations governing the degree of Bachelor of Engineering/Technology



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		of Visvesvaraya Technological University shall be binding on all concerned.
	210B19.2	<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>

