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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

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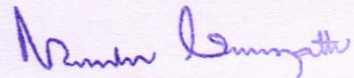
# CRITERION 1- CURRICULAR ASPECTS

## Criteria 1.1

### Curriculum Planning and Implementation

## UNIVERSITY REGULATIONS

2015

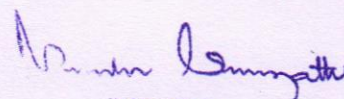


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**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**REGULATIONS GOVERNING**  
**THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**  
**(B.E./B.Tech.)**

**DEFINITIONS OF KEY WORDS:**

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

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

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

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

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

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

**Abbreviations:**

- HSS - Humanities and Social Sciences
- BS - Basic Sciences
- ES - Engineering Sciences
- PS - Professional Subjects

**Credit Structure for Course Work**

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

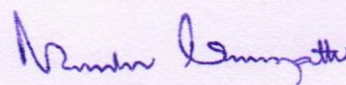
*N. Srinivasulu*

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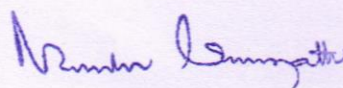
15OB 1	<b>TITLE AND DURATION OF THE PROGRAMME OF STUDY</b>
15OB 1.1	The program of study shall be called the degree Program of study in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
15OB 1.2	The program shall be of four academic years duration divided into eight semesters, each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

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

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



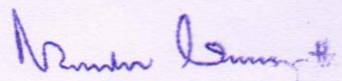
15OB 4.2	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 <sup>th</sup> and 12 <sup>th</sup> week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such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

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



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

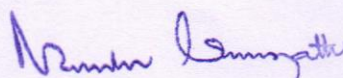
  
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	period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch.
15OB 6.2	The student admitted to 1 <sup>st</sup> year B.E/ B.Tech. shall complete the course within a period of eight academic years from the date of first admission, failing which he/she has to discontinue the course. The students admitted under lateral entry scheme (2nd Year B.E./B.Tech.) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course.
15OB 7	<b>PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS</b>
15OB 7.1	There shall not be any restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
15OB 7.2	A student shall be eligible for promotion from an even semester to the next odd semester (i.e. of the next academic year) if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all the lower semester examinations. A theory or practical shall be treated as a head of passing. <b>Illustrations</b> a. A student seeking eligibility to 3 <sup>rd</sup> semester should not have failed in more than 4 heads of passing of first and second semesters taken together. b. A student seeking eligibility to 5 <sup>th</sup> semester should have passed in all the subjects of 1 <sup>st</sup> and 2 <sup>nd</sup> semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together. c. A student seeking eligibility to 7 <sup>th</sup> semester should have passed in all the subjects up to 4 <sup>th</sup> semester and should not have failed in more than 4 heads of passing of 5 <sup>th</sup> and 6 <sup>th</sup> semesters taken together.  <b>The Subjects:</b> 1. Constitution of India, Professional Ethics and Human Rights, and 2. Environmental Studies are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.
15OB 8	<b>COURSES</b>

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

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

15OB9.2	<b>Report on Internship:</b> The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide.																											
15OB9.3	<b>Failing to undergo Internship:</b> Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree.																											
15OB9.4	<b>Non-completion of Internship:</b> In such cases, the student has to redo the internship.																											
15OB 10	<b>SEMINAR AND PROJECT</b>																											
15OB 10.1	Seminar topic shall be selected from the emerging technical areas only.																											
15OB 10.2	Project work at 8 <sup>th</sup> semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.																											
15OB 10.3	<i>Viva-voce</i> examination in project work shall be conducted batch-wise.																											
15OB 11	<b>COMPUTATION OF SGPA AND CGPA</b>																											
	<p>i. The VTU adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.</p> <p>ii. The grading system is with the following letter grades as given below:</p> <p><b>Grades and Grade Points</b></p> <table border="1"> <thead> <tr> <th>Level</th> <th>Out-standing</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Poor</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td><b>Letter Grade</b></td> <td><b>O</b></td> <td><b>S</b></td> <td><b>A</b></td> <td><b>B</b></td> <td><b>C</b></td> <td><b>D</b></td> <td><b>E</b></td> <td><b>F</b></td> </tr> <tr> <td><b>Grade Points</b></td> <td><b>10</b></td> <td><b>9</b></td> <td><b>8</b></td> <td><b>7</b></td> <td><b>6</b></td> <td><b>5</b></td> <td><b>4</b></td> <td><b>00</b></td> </tr> </tbody> </table> <p>iii. A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination. Such students after passing the failed subject in subsequent examination/s will be awarded with "E" grade irrespective of marks he/she scores in the subsequent examination/s. Number of attempts taken to clear a subject/s shall be shown in the transcripts.</p>	Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail	<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>
Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail																				
<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>																				
<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>																				



### Grade Points Scale

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

### Computation of SGPA and CGPA

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

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

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

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

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

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

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

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

## Illustration for Computation of SGPA and CGPA

### Computation of SGPA

#### Illustration No.1

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

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

#### Illustration No.2

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

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

#### Illustration No.2(a)

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

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

#### Illustration No.3

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

Course 3	4	B	7	4x7 =28
Course 4	3	O	10	3x10=30
Course 5	3	S	9	3x9 =27
Course 6	3	C	6	3x6 =18
Course 7	2	S	9	2x9 =18
Course 8	2	C	6	2x6 =12
	25			189

Thus, **SGPA= 189/25=7.56**

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

**CGPA after Final Semester**

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

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

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

15OB 12

**CONVERSION OF GRADES INTO PERCENTAGE:**

Conversion formula for the conversion of GPA into Percentage is  
[CGPA Earned - 0.75] x 10= Percentage of marks scored.

**Illustration:** [CGPA Earned 8.2 - 0.75]x 10 = 74.5%

15OB 13

**AWARD OF PRIZES, MEDALS & RANKS**

15OB 13.1

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

15OB 13.2

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

Illustration:

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

15OB  
13.3

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

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

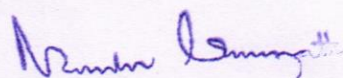
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PRINCIPAL

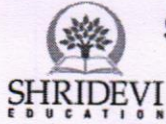


	<p>b) 3<sup>rd</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 2<sup>nd</sup> year (Lateral Entry) shall be considered.</p> <p>A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student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

\*\*\*\*\*

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





Sri Shridevi Charitable Trust (R.)  
**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

ESTD: 2002



## Criteria 1.1

# Curriculum Planning and Implementation

## UNIVERSITY REGULATIONS

2017

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# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

Dr. H. N. Jagannatha Reddy, BE.,ME., Ph.d.  
REGISTRAR

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

Ref No. VTU/Aca/A12/2017-18/4880

Date: 14 SEP 2017

## NOTIFICATION

- Sub: Regulations B.E/B.Tech & Scheme for 2017-18 admitted students and onwards  
Ref: 1. Resolution No 2 of 133<sup>rd</sup> Extraordinary Executive Council Meeting, dated: 11<sup>th</sup> September 2017.  
2. Vice-Chancellor's order, dated 14.09.2017

With reference to the above subject, the Scheme & Regulations governing B.E/B.Tech programme from the academic year 2017-18 has been updated on the website.

In this regard following is brought to the notice:

1. The Course Evaluation shall be carried in the ratio 60 and 40 for SEE (Semester End Examination) and CIE (Continuous Internal Evaluation) respectively.
  - The SEE will be conducted for 100 marks and proportionally reduced to 60 marks.
  - The CIE is prescribed for maximum of 40 marks. Marks prescribed for test shall be 30 and that for assignment is 10. The CIE marks for test in a theory Course shall be based on three tests generally conducted at the end of fifth, tenth and fourteenth week of each semester. Each test shall be conducted for a maximum of 30 marks and the final marks shall be the average of three tests. The remaining 10 marks shall be awarded based on the evaluation of Assignments/Unit tests/written Quizzes that support to cover some of the Course/program outcomes. Final CIE marks awarded shall be the sum of these two out of maximum of 40 marks.
  - In the case of Practical, the CIE marks shall be based on the laboratory journals/ records (30 Marks for continuous evaluation based on conduct of experiment, viva and report writing) and one practical test (10 Marks) to be conducted at the end of the semester.
2. The Scheme of teaching from the academic year 2017-18 admitted batch and onwards has been changed by retaining the contents of the syllabus of 2015-16 scheme as it is.

Principals of Constituent and Affiliated Engineering Colleges are required to conduct an orientation program for the students, clearly mentioning the guidelines of Regulations & Scheme.

Contents of this notification may kindly be brought to the notice of all the concerned.

By order,  
Sd/-  
REGISTRAR

To,  
The Principals of Constituent & Affiliated Engineering Colleges.

Copy FWCs to:

1. The Vice Chancellor, through Secretary to VC, VTU, Belagavi, for information.
2. The Registrar, VTU, Belagavi, for information.
3. The Registrar (Evaluation), VTU, Belagavi, for information and needful.
4. The In-Charge Regional Director's of VTU Regional Offices at Belagavi, Bengaluru, Mysuru & Kalaburagi, for information.
5. The Special Officer, Academic Section, VTU, for information.
6. Office Superintendent, Academic Section, VTU, for information.
7. CNC to upload.

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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 )**



**REGISTRAR**  
Visvesvaraya Technological University  
BELAGAVI - 590 018.

*Munish Kumar*

**PRINCIPAL**  
SHRIDEVI INSTITUTE OF  
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PRINCIPAL  
SHRIDEVI INSTITUTE OF  
ENGINEERING & TECHNOLOGY  
TUMKUR

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

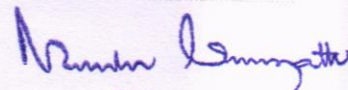
**Preamble:**

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 21<sup>st</sup> 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

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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

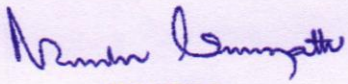
**Academic Programmes:**

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 /

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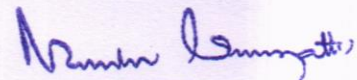
  
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VTU from time to time after getting approval from the University, AICTE/ UGC/ CoA/ Government of Karnataka and their respective Governing Bodies.

- 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

  
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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.).**

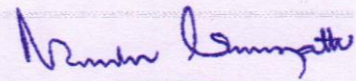
- 4.2 (c) Further, it is necessary that the Diploma and Certificate programmes at Autonomous Colleges shall also be indicated in abbreviated form, like DIP., and CERT with the branch/subject of specialization given in brackets after the abbreviation.

#### 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	As notified in University regulations	

**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

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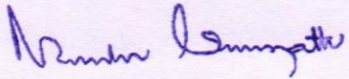
Engineering category of NIRF, amongst all the Engineering and Technology institute in the country for the previous consecutive three years.

- 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 it's 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 basics 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.

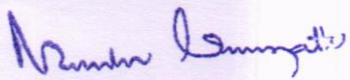
However, the Autonomous Colleges are free to provide syllabus equivalence for such candidates with the approval of it's Academic Council.

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 it's Academic Council.

  
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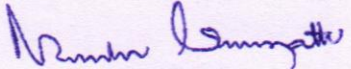
  
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4.5 Semester Scheme

- 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). (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.)
2. Semester Durations (Weeks)	Main Semesters ( <i>Odd/Even</i> ): 19 each. Supplementary Semester: 8.
3. Academic Activities (Weeks)	<b>Main Semester:</b> Registration of Courses- 0.5; Course Work- 15.5; Examination Preparation-1.0; Examinations- 1.0; Declaration of Results- 1.0; Total: 19.  <b>Supplementary Semester (For Repeat/Add-On Courses):</b> Registration of Courses- 0.1; Course Work- 7.0; Examination Preparation-0.2; Examination-0.2; Declaration of Results-0.5; Total: 8.  <b>Inter-Semester Recess:</b> 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).  (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.)
4. Examinations	<b>Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)</b> , both having equal weightages in the students' performance in Course Work/Laboratory Work and other activities. (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'.)

  
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**Table 1: A Typical Breakdown of Academic Year into Semesters  
(to be in line with the regulations made by university in this regard)**

<p><b>5. A Typical Calendar</b></p>	<p><i>1<sup>st</sup> Main Semester(Odd Semester):</i>  <i>1<sup>st</sup> August - 10<sup>th</sup> December, 19 Weeks.</i>  <i>Recess: 11<sup>th</sup> December - 31<sup>st</sup> December, 3 Weeks.</i></p> <p><i>2<sup>nd</sup> Main Semester(Even Semester):</i>  <i>01<sup>th</sup> January - 13<sup>th</sup> May, 19 Weeks.</i></p> <p><i>Recess: 14<sup>th</sup> May - 30<sup>th</sup> May, (2 Weeks);</i></p> <p><i>Supplementary Semester:</i>  <i>01<sup>th</sup> June - 25<sup>th</sup> July, 8 Weeks.</i></p> <p><i>Recess: 26<sup>th</sup> July-31<sup>st</sup> 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>
<p><b>6. Other Items</b></p>	<ul style="list-style-type: none"> <li>• Care shall be taken by each Autonomous College to ensure that the total number of days for academic work is <math>\geq 180</math>/year.</li> <li>• Academic schedules prescribed at each College shall be strictly adhered to by it for success of the <i>Semester Scheme</i>.</li> <li>• <i>Supplementary Semester</i> shall be mainly used by the Colleges for conducting <i>Repeat Courses</i> for the benefit of slow learners/ repeaters.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<p><b>Note : The Autonomous Institutes shall follow any other notification issued by the University in this regard from time to time.</b></p>	

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**Credit System:**

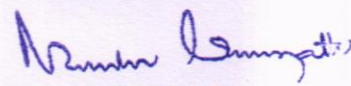
**5.1 General:**

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

  
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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.

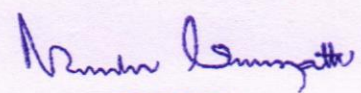
5.2 **Credit Structure:**

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)

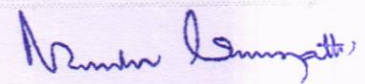
**Major Benefits:** Major benefits accruing to Autonomous Colleges by adopting the *Credit System* are listed below:

- 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)).

  
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**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:

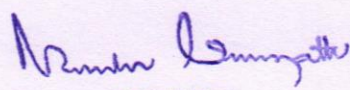
- Advise the students in the group on all academic matters (like registration of courses, dropping of courses and/or withdrawing from courses),
- Monitor the students' in the group for their individual academic performance,
- Identify students in the group who are slow, average or fast learners to help 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/ 28credits). 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.

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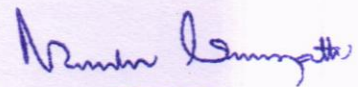


- 5.3(b) (iv) The above will enable any student to properly plan his/her course load in each succeeding semester, by fixing it to be between  $\geq 16$  and  $\leq 28$  credit limits based on faculty advice and his/her academic performance in the previous semester. Faculty advice to be also useful to 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	B.E./B. Tech.	4.0 (8)	160
	B.E / B.Tech. (Lateral entry)	3.0 (6)	120
	B. Arch.	5.0 (10)	260 -300(as per COA)
PG Degree	M. Tech.	2.0 (4)	88
	M. Arch.	2.0(4)	100
	M.B.A.	2.0(4)	100
	M.C.A.	2.0(4)	100
	M.Plan.	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.

  
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- 5.3 (d) **Contact Hours:** Considering the expectations from engineering professionals with UG, PG and Research Degrees in the 21<sup>st</sup> 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)

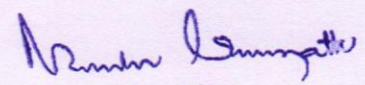
Curriculum Framework is important in setting the right direction for a Degree/ PG Diploma/Certificate programme at an Autonomous College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen branch or specialization 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 (NMC)
- Ability Enhancement Courses (AEC)
- Universal Human Values Courses (UHV)

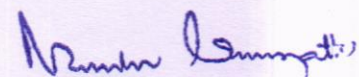
6.2 (b) **Mandatory Courses (MC) and Other Requirements:** The UG Degree programmes also require the inclusion of certain courses necessary for familiarity of subjects, like Environmental Studies, Constitution of India, Communication Skills, Chosen Language Knowledge/ Proficiency, NSS, NCC, Sports, Yoga 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 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 1<sup>st</sup> 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

  
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professionals to be able to meet the 21<sup>st</sup> 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

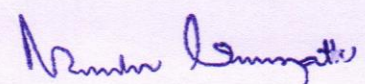
\*Minor variation is allowed as per need of the respective discipline (As per report of Expert Committee)

- 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

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launched at Autonomous Colleges under the University.

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

### 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

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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.

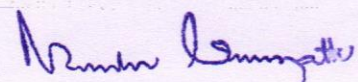
#### 7.0 Suggested Assessment Guidelines:

##### 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:**

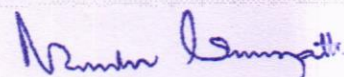
7.2 (a) **Question Paper Pattern:** For an effective *achievement testing* of students in a course, a good question paper needs to be used as the principal tool. This makes it necessary for the question papers used at CIE and SEE to;

- 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

  
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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.

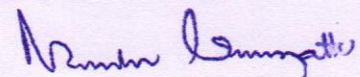
Every autonomous College will have Moderation Committee for CIE. The Constitution and functions will be same as that defined in University Regulation and directions issued from time to time.

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*.

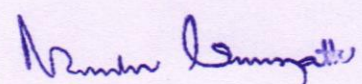
7.3 (g) **Successive Failures:**

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

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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)

## 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	O	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.

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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 ( $\mu$ ) value and standard deviation ( $\sigma$ ) 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.

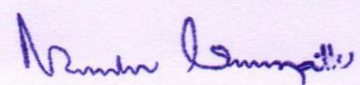
## 8.2 **Grade Points:**

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

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:

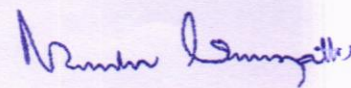
- Illness or accident, which disabled him/her from attending SEE;
- A calamity in the family at the time of SEE, which required the Student to be away from the College;
- Any other verifiable exigency.

(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 ( $\geq 90$ ) 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.

  
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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.

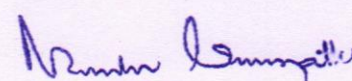
#### **Computation of SGPA and CGPA**

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

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

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

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  $\geq 5.00$  at the end of the Program

- (A) Students, who have completed all the courses of the Program but do not have a CGPA  $\geq 5.00$  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

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calculated considering the improved grade/s. If it is  $\geq 5.00$ , 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  $\geq 5.00$ , 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  $\geq 5.00$ , 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 21<sup>st</sup> 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.

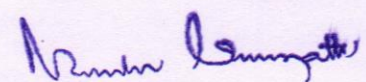
Establishing a dynamic *Faculty Advisory System* at each College with 5-10 students assigned to an Advisor, for guiding them in planning/implementing their course work in a flexible and effective manner and also monitoring them.

#### 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

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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 1<sup>st</sup> 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 :

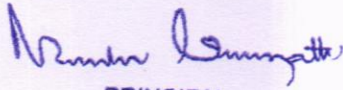
There shall be a provision for the rejection of total performance of a semester and re-registration for the semester. This shall be done only once in the entire course of studies. However, rejection of performance of 8<sup>th</sup> semester project work is not permitted.

#### 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:**

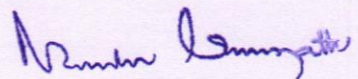
- (a) Each Autonomous College shall upload the every SEE results in the University web portal without fail.
- (b) Each Autonomous College shall forward its recommendations to the University in respect of students qualifying for UG/PG/ Research Degree Awards based on their success in the examinations/adjudication 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.

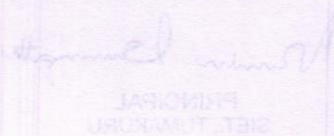
**9.6 Graduation Ceremony:**

- (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

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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 21<sup>st</sup> 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:**

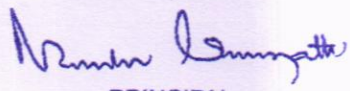
(a)

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:**

It 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.

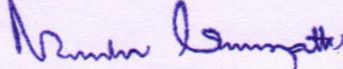
**15**

**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*.

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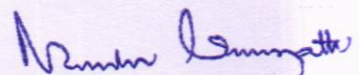
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- 15.2 These *Guidelines and norms* should be read as a whole for the purpose of any interpretation.
- 15.3 In case of any doubt or ambiguity in the interpretation of the above *Guidelines and norms* , the decision of the Vice Chancellor is final.
- 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

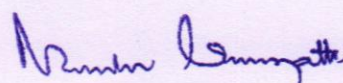
### When to offer Supplementary semester:

A student of UG programme will have opportunity to register for supplementary semester which is offered after 4<sup>th</sup> semester for courses from 1<sup>st</sup> to 4<sup>th</sup> semester and after 8<sup>th</sup> semester for courses from 5<sup>th</sup> to 8<sup>th</sup> 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 4<sup>th</sup> and 5<sup>th</sup> semester must comply the missed internship requirement in the subsequent semester in the gap between 5<sup>th</sup> and 6<sup>th</sup> 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:

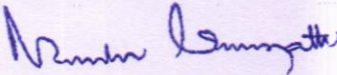
Approved Intake: \_\_\_\_\_

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 (Odd) Courses/Credits	Main Semester 2 (Even) 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 (Odd) Courses/Credits	Main Semester 2 (Even) 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
Odd UG PG& Research					
EvenUG PG& Research					
Supplementary UG PG& Research					

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

Odd Semester \_\_\_\_\_ Even Semester \_\_\_\_\_ Supplementary Semester \_\_\_\_\_

**4. Information on Students' Performance:**

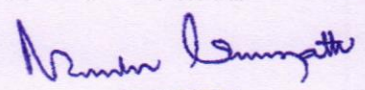
(Please include additional columns in the following tables, if required.)

(a) UG- Odd Semester:

Course No.					
No. of Students 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+					

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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+						

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*Principals Signature*  
 PRINCIPAL  
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*Principal Signature*  
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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:

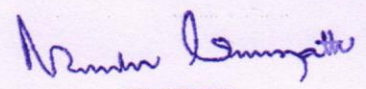
Course No.						
No. of Students Registered						
No. of Students Dropping						
No. of Students Not Admitted to SEE						
No. of Students Failing						
No. of Students with Transitional Grades	I					
	W	X				
% of Students Awarded Grade:						
O						
A+						
A						
B+						
B						
C						
P						

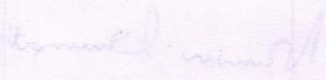
(g) PG& Research-Even Semester:

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 Grades	I					

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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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With seal

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