

CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office:

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THE OXFORD COLLEGE OF ENGINEERING

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi,
Approved by A.I.C.T.E. New Delhi&Recognized by UGC Under Section 2(f),
Accredited by NBA, New Delhi, NAAC 'A' Grade with score of 3.24&Diamond Rating by QS I Guage)
Bommanahalli, Hosur Road, Bangalore –560068. ①: 080 -61754601/602
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

TO WHOMSOEVER IT MAY CONCERN

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented for Academic Year 2023-24

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementation of CBCS / elective course system
BE-AIML	Artificial Intelligence and Machine Learning	2021	Yes	2021
BE-BT	Biotechnology	2003	Yes	2015
BE-CSE	Computer Science and Engineering	2000	Yes	2015
BE-CV	Civil Engineering	2008	Yes	2015
BE-ECE	Electronics and Communication Engineering	2000	Yes	2015
BE-EE	Electrical and Electronics Engineering	2001	Yes	2015
BE-ISE	Information Science and Engineering	2000	Yes	2015
BE-ME	Mechanical	2002	Yes	2015

	Engineering			
BE-MT	Mechatronics Engineering	2008	Yes	2015
MCA	Master of Computer Applications	2001	Yes	2016
MBA	Master of Business Administration	2001	Yes	2015
MTech-SAM	MTech in Artificial Intelligence and Machine Learning	2021	Yes	2015
MTech-PE	MTech in Power Electronics	2008	Yes	2015
MTech-LVS	MTech in VLSI Design and Embedded Systems	2012	Yes	2015
MTech - CS	MTech Cyber Security	2021	Yes	2015



The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068

Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

REGISTRAR

Phone: (0831) 2405468 Fax (0831) 2405467

Ref. No. VTU/Aca/A6/2014-15//379

Date: \$ 5 MAY 2015

CIRCULAR

This is to bring to the notice of the Principals of affiliated Engineering colleges that,

"As per the directions of University Grants Commission, New Delhi, the Choice Based Credit System (CBCS) will be introduced for B.E./B.Tech. Programs from the academic year 2015-16. In light of this it is decided to retain 2010 syllabus to the students admitted to B.E./B.Tech. during the academic year 2014-15".

Hence, the students who are admitted to:

- 1. FIRST Semester B.E./B.Tech. during the academic year 2014-15 will study the 2010 scheme and syllabus from III to VIII Semesters without any modification,
- 2. THIRD Semester B.E./B.Tech. (Lateral Entry) during the academic year 2015-16 will study the 2010 scheme and syllabus from III to VIII Semesters without any modification, and
- 3. The Question Paper Pattern (answering 5 out of 8 questions) will remain the same as that of the 2010 scheme.

The Principals of affiliated Engineering Colleges are requested to bring the contents of this circular to the notice of all the concerned.

sd/-Registrar

(Dr. K. E. Prakash)

To, The Principals of affiliated Engineering colleges.

Copy FWCs to:

1. The Registrar (Evaluation), VTU Belgaum, for information and needful.

2. The Special Officers of VTU Regional Offices, for information.

3. The Special Officer, Academic Section, VTU, for information.

4. The Secretary to VC, VIU Belgaum, for information.

REGISTRAR (Dr.K.E.Prakash)

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

DEFINITIONS OF KEY WORDS:

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

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

decimal places.

14. Cumulative Grade Point Average (CGPA): It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

15. First Attempt: If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall

be considered as first attempt.

16. Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

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

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

Semesters	Course Coverage
I –II	HSS, BS and ES; Common for all Branches;
	Mandatory Courses
III-īV	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	Tutorial (hrs/wk/	Lab. Work (hrs/wk/Sem)	Credits	Credits
/Sem)	Sem)	(III S/ WK/ Selli)	(Lec:instruction:Lab)	(Total)
4	0	0	4:0:0	4
3	0	0	3:0:0	3
0	1	2	0:1:2	2

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

	(B.E./B.Tech.)
150B 1	TITLE AND DURATION OF THE PROGRAMME OF STUDY
150B 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.
150B 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.
150B 1.3	The calendar of events in respect of the program of study shall be
	fixed by the University from time to time.
150B 1.4	The examination in all programs of study shall be conducted at the
	end of each semester for all eight semesters.
150B 2	ELIGIBILITY FOR ADMISSION
	(The Government orders issued from time to time in this regard shall
	prevail).
150B 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.
150B 2.2	In addition to 150B 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.
150B 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/
2002 2.0	Technology (Lateral Entry) shall be open to the students
	Diploma Holders
	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
	personal from the same four committation finds and

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%).

Who have completed their Diploma from other than Karnataka state shall provide the Equivalence, Eligibility Certificate from the

Director of Technical Education, Karnataka.

· Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics - III and IV) and Mandatory subjects (CPH and CIV) as specified by the University.

B.Sc. Graduates

Must have passed B.Sc. degree from a recognized University as defined by the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (including all six semesters). In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%). Should have studied Mathematics as subject of study at XII Standard.

Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V

Semester

I. Computer Aided Engineering Drawing (CAED) and

Programming in C and Data Structures II.

CPH and CIV (if not studied at B.Sc. Level).

150B 2.4

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

Explanation: Professional experience means employment on regular basis

a. in Government. Government undertaking, Public Sector undertaking, Corporations or

b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or

c. In Government, Government recognized institutions as technical staff.

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.

150B 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.
150B 3	ATTENDANCE REQUIREMENT
150B 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.
150B 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.
150B 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
- 1	attendance by the end of the semester to the Registrar (Evaluation)
	with a copy to the Registrar.
*. * J	Provided that mere omission by the college to inform the student
	about the shortage of attendance shall not entitle him to appear for
1500.04	examination.
150B 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
150B 3.5	subsequent academic year. TEMPORARY DISCONTINUATION OF THE PROGRAM:
1305 3.3	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
	150B 6.2.
150B 4	INTERNAL ASSESSMENT MARKS
150B 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.

150B 4.2	The Internal Assessment marks in a theory paper shall be based on
	11 - and 11 of od of the end () Um allu 12 Woods of the
	The second of the conditional test may be confidented for the desirons
	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 150B 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
4	made available to University authorities for verification as per the
1505 10	directions of the Registrar (Evaluation)/ Registrar.
150B 4.3	Average of the better marks obtained from any two tests shall be the
150B 4.4	Internal Assessment Marks for the relevant subject.
1305 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.
150B 4.5	In the case of a Practical, the IA marks shall be based on the
150D 4.6	laboratory journals/reports and one practical test
150B 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 of and I
	various branches shall be based on the evaluation of the sheets and
1500 45	one test in the ratio 60:40.
150B 4.7	The IA marks in the case of projects and seminars in the final year
	shall be based oil life evaluation at the end of oth
	Committee consisting of the Head of the concerned Day
	two senior faculty members of the Department, one of whom shall be the project / seminar guide.
150B 4.8	The final list, incorporating corrections (if any) of IA marks awarded to
	the students in the incorv/Practical/Internable/Decision
	Seminar, shall be displayed on the notice heard of the college at 1
	seven days before the closure of the semester and a complete
	the same shall be sent by the Principals to the University E-versity
	because within the supulated date. Every page of the IA months at
	shan bear the signatures of the concerned Teacher/Teachers, Head of
150B 4.9	the Department and Principal. Any corrections or over writing of IA months in the Indian of IA months in the IA months in IA months in the IA months in the IA months in the IA months in IA mo
	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
	shan on every sheet indicate the number of corrections and attent it
	with his signature.
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150B 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.
150D 4 10	The state of the state of the marks shall be 40% of
150B 4.10	For seminars, the minimum requirement of IA marks shall be 40% of
(b)	the maximum.
150B 4.11	Such students as mentioned in 150B 4.10 shall repeat the laboratory
	work/Internship/project work during the subsequent semester(s) and
,	secure at least the minimum marks prescribed.
1500 4 10	
1508 4.12	For theory subjects, there shall not be any minimum requirements of
	IA marks.
150B 4.13	Improvement of IA marks shall not be allowed
	a. In theory subjects and
	b. In Laboratory/Workshop/Seminar/ Internship / Project where the
	of the day the standard the minimum required marks
1255 1 1 1	student has already secured the minimum required marks.
150B 4.14	7-
(1)	sent separately to the Registrar (Evaluation).
150B 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 mortes to the University any request for change of IA
	Assessment marks to the University, any request for change of IA
	marks shall not be considered under any circumstances.
150B 5	ELIGIBILITY FOR PASSING
	A student who obtained Grades O to E shall be considered as passed
	and if a student secured "F" grade in any of the head of passing he
	/she has to reappear for the examination.
150B 5.1	For a pass in a theory subject/drawing, the student shall secure
(a)	minimum of 35% of the maximum marks prescribed in the University
(2)	<u> </u>
	examination and 40% of marks in the aggregate inclusive of the IA
	marks. i.e. Minimum Passing Grade is "E".
150B 5.1	For a pass in a Practical/Internship/Project/Viva-voce examination, a
(b)	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".
150B 5.1	For a pass in Seminar, a student shall secure a minimum of 40% of
(c)	
	the maximum marks prescribed. i.e. Minimum Passing Grade is "E".
150B 5.2	The students who do not satisfy the condition 150B 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 nor remarking 1500 410 ()
,	revised marks will be taken as per regulations 150B 4.10 (a & b) and
150D 5 0	150B 4.11.
150B 5.3	The student who passes a course of a semester as per 150B 5.1 shall

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A. Carallella and Car	not be allowed to appear for the same again, unless he/she opts for
i.	rejection of results as per 150B 5.4, 5.5, 5.0, 5.7 % 5.8.
OB 5.4	A student may of his her degire reject his her total perior mance of a l
	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.
150B 5.5	The student who desires to reject the performance as per 150B 5.4
	shall reject performance in all the courses of the semester, irrespective
1	of whether the student has passed or failed in any subject. However,
	the rejection of performance of 8th semester project result shall not be
	permitted.
150B 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
OB 5.7	130B b) will be counted as per old USN.
05 0.7	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 stilldent in the rejected semester about 1
,	Applications for such rejection shall be sent to the D
	(Evaluation) unrough the Principal of the College within 20. 1
1	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
	Trappers to be of the out semester the student shall L 11
	take autilission to the illimediate next even semester it-
	rejection of the Oniversity result is of the even semester the
	shan not be anowed to take admission to the next odd semester las per
1505.5.5	130b 7.2).
150B 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
150B 5.9	are not engine for the award of ranks.
1305 3.9	A student shall be declared to have completed the program of B.E. /
	Direction, degree, provided the student has undergone the stipulated
	course work as per the regulations and has earned at least 200 Credits.
150B 6	
150B 6.1	MAXIMUM DURATION FOR COURSE COMPLETION A student who has not obtained the still like the still
1000 0,1	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.
150B 6.2	The student admitted to 1st 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
150B 7	has to discontinue the course.
150B 7	PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS
15087.1	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.
150B 7.2	A student shall be eligible for promotion from an even semester to the
1305 7.2	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.
	Illustrations
Adam da Santa	a. A student seeking eligibility to 3 rd semester should not have failed
	in more than 4 heads of passing of first and second semesters
10 19 AV 11 18 18 18 18 18 18 18 18 18 18 18 18	taken together.
	b. A student seeking eligibility to 5th semester should have passed in all the subjects of 1st and 2nd semesters and should not have failed
	in more than 4 heads of passing of third and fourth semesters
J. 12. 4.	taken together.
	c. A student seeking eligibility to 7th semester should have passed in
	all the subjects up to 4th semester and should not have failed in
	more than 4 heads of passing of 5th and 6th semesters taken
	together.
9	
	The Subjects: Constitution of India Professional Ethics and House Division of India Professional Ethics and House Divisional Ethics and Hou
	 Constitution of India, Professional Ethics and Human Rights, and 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.
150B 8	COURSES

	courses to be compulsorily
150B 8.1	There will be Four types of courses (i) Core Courses: This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses requirements of a program in a said discipline of study.
	will have 4 credits per course. The Foundation Courses are of two kinds:
	"Compulsory Foundation": These courses are the computer They are the content that leads to Knowledge enhancement. They are the content that leads to Knowledge enhancement per mandatory for all disciplines. These courses will have 4 credits per mandatory for all disciplines.
	course. "Foundation Electives": These are value based courses aimed at man "Foundation Electives": These are value based courses aimed at man making education. These courses will have 3 credits per course. This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing pool of papers. It may be supportive to some other discipline / extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have
	(iv)Mandatory Non-Credit Courses: These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.
150B 8.2	The minimum number of students to be registered for an elective to be offered shall be not less than ten.
150B 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.
150B 9	INTERNSHIP
150B 9.1	Internship: The student shall undergo an Internship for 8 weeks i.e.
	starting from the end of 7 th semester Examination after availing one week vacation and completing during the initial period of 8 th semester.
	 The college shall nominate a faculty for a group of students to prepare the students for internship.
	2. The students shall report the progress of the internship
	to the guide in regular intervals and may seek his/her advise.
	3. The Internship shall be completed between 7th and 8th
	semesters.
	4. After completion of 7th semester Theory and Practical
	examinations, the students shall have one week vacation. 5. Immediately after availing one week vacation, the
	students shall undergo internship (without waiting for
	the results) which may be a period of 4/5 weeks.

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

				The C	College	shall	lacino	tte wild	THOT	LLOT 42	-
150B9.2		Report on Internship: The College shall facilitate and monitor to student internship program. The internship report of the college management of the college management of the college management of the college management.									
	stude	udent internship program. The internal relationship all be submitted to the Head of the Department of the college with							12		
					u or u	,					1
1505	the a	pproval o	of the Gu	iae.			nnletion	of i	nterns	shin	<u>-</u>
150B9.3	Faili	ng to	undergo	Inter	nship:	Con	interne	shin he	/she	will n	18
	mand	ng to latory; if	any stud	dent fails	s to co	mpiet	e miterii	sinp, m	, one	WIII 1	JUL
		igible for									
150B9.4	Non-	completi	on of I	nternsh	ip: In	such	cases,	the st	udent	has	to
J	redo	1-completion of Internship : In such cases, the student has to the internship.									
150B 10	SEM	NAR AN	D PRO.II	ECT							
150B 10.1		nar topic			ted fro	om th	e emers	ging tec	chnica	al are	as
	only.	topic	Jilan k	DC SCICC	ica ii	J111 C11	011101	56			
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	consi	sting of n	ninimum	n of two	studer	te and	d maxim	um fou	r stu	dents	
150B 10.3	Viva-	voce exar	nination	in proje	ot wor	le chal	l be con	ducted	hatch	1-Wise	<u>:</u>
150B 11	COM	PITATIO	N OF C	an proje	Ct WOI	K Silai	ii be con	uuctcu	Dates		
	;	PUTATIO	ON OF S	GPA AN	D CGF	'A					
	1.	The VTU	adopts	absolut	e grad	ing sy	stem wh	nerein t	he ma	arks a	ıre
,		converte	ed to gra	ides, and	l every	seme	ester res	ults wil	l be d	leclar	ed
	converted to grades, and every semester results will be deci- with semester grade point average (SGPA) and Cumul										
		with se	mester	grade p	oint	averag	re (SGP	A) and	Cur	nulati	ive
		with se	mester	grade p	oint	averag	re (SGP	A) and	Cur	nulati	ive
· / / · ·		Grade P	mester oint Ave	grade p rage (CC	oint : 3PA). 7	averag	re (SGP	A) and	Cur	nulati ed eve	ive
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		Grade P semeste The grade below: Grades Level Letter Grade Grade Grade	oint Ave r, except ding sys and Gra Out- standing O	grade perage (CC) the first tem is verteen to verteen the period of the	ooint GPA). To seme vith the ts Very Good A	Good B	GPA will owing le Above Average C	A) and be calcutter grade	Cunculate ades a	ed evens giv	ren
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	iii.	Grade P semeste The grade below: Grades Level Letter Grade Grade Points A student be require	oint Ave r, except ding sys and Gra Out- standing O 10 t obtain red to re	grade perage (CC) the first tem is vertical te	ooint GPA). The sements to sements vith the sements Very Good A 8 de "F"	Good B Shall	Above Average C be considered.	A) and be calcutter grade Average D	Cunculate ades a Poor E	Fail F OO and w	ery ren
	iii.	Grade P semester The grade below: Grades Level Letter Grade A student be require Such student	oint Ave r, except ding sys and Gra Out- standing O 10 t obtain red to re udents a	grade perage (CC) the first tem is wellent second s	t seme vith the ts Very Good A de "F" in the ssing	Good B Shall exami	Above Average C be considered.	Average D idered f	Cunculate ades a Poor E	Fail F OO	en vill
	iii.	Grade P semester The grade below: Grades Level Letter Grade A student be require Such student	oint Ave r, except ding sys and Gra Out- standing O 10 t obtain red to re udents a	grade perage (CC) the first tem is wellent second s	t seme vith the ts Very Good A de "F" in the ssing	Good B Shall exami	Above Average C be considered.	Average D idered f	Cunculate ades a Poor E	Fail F OO	vill
	iii.	Grade P semeste The grade below: Grades Level Letter Grade Grade Points A student be require Such student examinate	oint Ave r, except ding sys and Gra Out- standing O 10 tobtain red to re udents a tion/s v	grade perage (CC) the first tem is with the Point S grade perage (CC) the first tem is with the first tem is with the point temperate particle particle per in after	t seme vith the ts Very Good A 8 de "F" in the ssing	Good B Shall examing the factorial and an interest and an in	Above Average C be considered su	Average D determined for the content of the conte	Cunculate ades a Poor E	Fail F OO	vill
	iii.	Grade P semeste The grade below: Grades Level Letter Grade Grade A student be require Such student stu	oint Ave r, except ding sys and Gra Out- standing O 10 10 at obtain red to re udents a tion/s ve e/she so	grade perage (CC) the first tem is with the first tem is the first tem is with the first	soint GPA). The seme vith the seme vithe vithe vithe vithe seme vithe vi	Good B Shall examined with the fared with the far	Above Average C be considered su th "E" a	Average D bject ingrade in	Poor E ailed a sub-	Fall F OO and was eque	vill ent
	iii.	Grade P semester The grade below: Grades Level Letter Grade A student be require Such student	oint Ave r, except ding sys and Gra Out- standing O 10 10 at obtain red to re udents a tion/s v e/she so of attem	grade perage (CC) the first tem is with the first tem is the first tem is with the first	soint GPA). The seme vith the seme vithe vithe vithe vithe seme vithe vi	Good B Shall examined with the fared with the far	Above Average C be considered su th "E" a	Average D bject ingrade in	Poor E ailed a sub-	Fall F OO and was eque	vill ent

Grade I	Points Se	cale			1	Τ	I	1
Level	Out- standing	Excellent	Very Good	Good	Above Average	Average	Poor	Pail
Letter Grade	O	s	A	В	С	D	E	F
Grade Points	10	9	8	7	6	5	4	00
Score (Marks)	≥ 90	<90	< 80 ≥70	< 70 ≥60	< 60 ≥50	< 50 ≥45	<45 ≥40	< 40
Range (%)								

Computation of SGPA and CGPA

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

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

SGPA (Si) =
$$\sum$$
(Ci x Gi) / \sum Ci

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

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

CGPA =
$$\sum$$
(Ci x Si) / \sum Ci

where Si is the SGPA of the ith semester and Ci 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

Computation of llustration No			Grade	Credit Point
Course	Credit Grade		point	(Credit x Grade)
		letter	8	4x8 = 32
Course 1	4	A		4x6 = 24
Course 2	4	C	6	4x7 = 28
Course 3	4	В	7	
Course 4	3	0	10	3x10= 30
Course 5	3	D	4	3x4 = 12
Course 6	3	$+\frac{D}{C}$	6	3x6 = 18
***************************************				2x9 = 18
Course 7	2	S	9	
Course 8	2	С	6	2x6 = 12
	25			174

Thus, SGPA= 174/25=6.96

Illustration No.2

abtracton 1	10.4			
Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade
Course 1	4	Α	8	4x8 = 32
Course 2	4	Ċ	6	
Course 3	4			4x6 = 24
Course 4	3	B	7	4x7 = 28
Course 5		0	10	3x10=30
	3	F	0	3x0 = 00
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	
Course 8	2	C		2x9 = 18
	25		_ 6	2x6 = 12
hus SCDA-	16010=			162

Thus, SGPA= 162/25=6.48

Illustration No.2(a)

Course	.U. 2101	7		
	Credit	Grade letter	Grade point	Credit Point
Course 5	3	E		(Credit x Grade)
	25		+ -	3x4 = 12
,				Ci (First Attempt)162 +
				Ci (subsequent attempt)
Thus, SGPA =	174/05			12= 174

Illustration No.3

Course	Condit	Commence of the Commence of th		
Course 1 Course 2	Credit 4 4	Grade letter A C	Grade point 8	Credit Point (Credit x Grade) 4x8 =32 4x6 =24

<i>V</i>								
7	Course	3	4	В	7	4x7		
	Course	4	3	О	10	3x10		_
	Course	5	3	S	9	3x9		
	Course		3	С	6	3x6		
	Course		2	S	9	2x9	=18	
	Course	$\overline{}$	2	C	6	2x6	=12	
	Course	-	25				189	
	Thus, SGP)A - 1		56				
	inus, sur	M- 1	25x6.	96 + 25 <i>x</i> 7.56	7.0/			
		C	$GPA = \frac{25x6.}{}$	50	: 1.20			
	CGP	A af	ter Final	Semeste	r		-	
	Sem - 1 5	Sem.	- 2 Sem 3	3 Sem 4	Sem 5	Sem 6	Sem 7	Sem 8 Credit : 26
	Credit : 24	Credit-C	24 Credit : 2 .5 SGPA:9.2	7 Credit : 27	Credit :24	Credit: 24 SGPA:7.73	SGPA:8.68	SGPA:9.4
	Thus, CGP	.	1×7+24×85+	27x9.2 + 27x6	.86 + 24x8.18	+24x7.73+2	24x8.68 + 26x9	<u>9.4</u> = 8.2
	Transcript	t (Fo	rmatl: Ba	ased on tl	ne above	recommo	endations	on Letter
		1 .		CCDA or	A CIPA	inc u	aliscript	101
	grades, grades, grades	and a	a consolid	ated tran	script in	dicating	the perfo	rmance in
	all semeste	ers m	av be issi	ued.	•			
150B 12	CONTEDE	MON	OF CRAI	es into	PERCE	NTAGE:		_
1505 12	Conversio	n for	mula for	the conve	rsion of (3PA into .	Percentag	ge is
	[CGPA Ear	med	- 0.751 x	0= Perce	ntage of 1	marks sc	ored.	
	COPA Bai	IICU	0.70, 11		J			
	Illustratio	m· IC	GPA Ear	ned 8.2 - (0.75 x 10	= 74.5%)	
1500 13	AWARD O	F PR	IZES. ME	DALS &	RANKS			
150B 13		-	C D '	and Mad	ale the	condition	s stipula	ted by the
150B 13.1	For the aw	vard	or Prizes	and wice	et to the	provisio	ons of th	e statutes
	Donor ma	y be	consider	ea subje	owards	provide		
	framed by	the U	Jniversity	lor such	awarus.	num of	10 studei	nts should
150B 13.2	For award	of r	anks in a	b semest	a IIIIIIII.	nation T	he total	number of
	have appearanks awa	ared	in the 8	n semest	tal num	her of st	udents a	nneared in
	ranks awa	rded	shall be	10% OI TO	nai num	eee in the	at branch	1.
	ranks awa		10 stude:	nts, wnici	ievel is i	C99 III (II)	ut VICIIOI.	
	1							
	1. If 10)28 \$	students	appeared	for the	Om Sciiid	so numbe	Electronics of ranks
	4	~	aioati	on Hindin	enny o	anch. u	ic mumb	JI OI 1
	to be	e awa	arded for	Electron	ics and	ommun	ncauon e	Engineering
	.11	10						
		·	idents a	ppeared	for the	8 th seme	ester in	Biomedical
٠.	Engi	neeri	ing Branc	ch, the n	umber o	of ranks	to be a	warded for
.,		1 .	-1 Transino	oring will	he ()4			
1500	For award	of ra	nk in a h	ranch of	Engineer	ring / Te	chnology	, the CGPA
150B								
13.3	secured by	CITE	gemeste	r for the	student	s admitt	ted to B.	E./B.Tech.
	a) Ist to	ט סיי	from 1st	ant and	Jeaucit			
	Progr	ram	from 1st y	car, and	······			****

	dents admitted to B.E./B.Tech
	b) 3rd to 8th semester for the students admitted to B.E./B.Tech
	b) 3rd to 8th semester for the State Program from 2nd year (Lateral Entry) Program from 2nd year (Lateral Entry) Program from 2nd year (Lateral Entry)
	Drogram II UIII - V
	shall be colliside to the student
	A student shall be say / Technology, Page 1st semester) or 3rd to
	in each branch of Blad in students joining from the subjects in first
	A student shall be eligible for a rechnology, provided the student in each branch of Engineering / Technology, provided the student in each branch of Engineering / Technology, provided the student in each branch of Engineering / Technology, provided the student some sense and the subjects in first as passed 1st to 8th (students joining from 1st semester) or 3rd to a sense of lateral entry) semester in all the subjects in first
	8th (in case of later)
	attempt only b. Has not repeated/rejected any of the lower semesters. b. Has not repeated/rejected any of the lower semesters. If two students get the same CGPA, the tie should be resolved by leave the number of times a student has obtained higher SGPA;
1505	b. Has not repeated rejosses and CGPA, the tie should be reserved higher SGPA:
150B	
13.4	Considering the number of corresponding the mitting of corresponding
	but, it it is not resolved even and like O. S. A. B etc snail be taken
	but, if it is not resolved even at this stage, the number 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.
150B 14	TRANSPIRE OF COURTENTS
	Transfer of students from one college to another college within
150B14.1	Transfer of students from one college to another of third, fifth,
* =	Transfer of students from one college to allother. Karnataka state shall be permitted only at the beginning of third, fifth,
. * *	
	permitted intake in respective Colleges and subject to the pro-
	approval of the University and the provisions of 150B 7.2.
	In the case of students from Universities other than VTU the students
	should have passed in all the courses of 1st & 2nd semesters for
	admission to 3 rd semester and all the courses of 1 st to 4 th semesters for
	admission to 5th semester and all the courses of 1st to 6th semesters for
	admission to 7th semester.
	The students seeking admission from Universities other than VTU
	shall have to
	a. apply for establishment of equivalence with prescribed fees as
	notined by the VTU and
	b. Obtain No Objection for admission from the university before
150B14.2	confinencement of term as notified by VTII
130814.2	Transfer of students within the College from one branch to another
	orallon at J. Schlester shall be permitted with the miles and the
	the vio and subject to the provisions made by the Government of
150D14.6	The state and the LE in this bensh
150B14.3	The University may prescribe fee for administrative purpose (for updating of the records), which shall be a second to the records.
	and the contest in all thanks of College in all the state of College in all the state of the sta
	to another branch (change of branch within the college).

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





Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

Dr. H. N. Jagannatha Reddy, BE,ME., Ph.4. REGISTRAR

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

Ref No. VTU/Aca/A12/2017-18/ 3615

Date: 7 5 AUG 2017

CIRCULAR

Sub: Introduction of Open Elective- reg

It is hereby informed, that university has introduced Open Electives concept for B.E CBCS Scheme in 5th and 6th semester, you are informed to note the following guidelines in offering of Open Electives (guidelines enclosed) and bring the same to the notice of students and faculty. The Course coordinator for offering open elective has to be identified in each department for proper implementation of the concept.

Sd/-

REGISTRAR

The Principals of Affiliated Engineering Colleges.

Copy FWCs to:

1. The Hon'ble Vice Chancellor, through the Secretary to VC, VTU Belagavi, for information

2. The Registrar, VTU Belagavi, for information.

3. The Registrar (Evaluation), VTU Belagavi, for information & necessary action.

4. The In-Charge Regional Director of VTU Regional Offices, for information.

5. The Office Superintendent, for information.

6. CNC to upload on the website.

Guidelines for offering Open Elective for the B.E 5th & 6th Semester (CBCS) scheme

Note to Students:

- 1) All B.E (CBCS) students (except B.Arch, B.Tech) should study one Open elective each in the 5th and 6th Semester as a part of their Programme.
- 2) Students should register for the Open elective in the beginning of the 5th/6th semester in the department, where the elective is offered. An Open elective is not offered in a department if the registered student's strength is less than 10.
- 3) All Open electives are offered to students of all B.E Programmes (branches) of engineering in general (except B.Arch, B.Tech). However, if a student of a particular Programme has already studied/going to study, in higher semester a similar Core course with majority of topics same as that of a particular Open elective, then that Open elective is not offered to that student. In which case, the student has to select an alternative Open elective.
- 4) Having studied/selected a particular Open Elective, a student is not eligible to take a Professional elective of his/her Programme in the Higher semesters/same semester which will have majority of topics same as that of the Open elective studied/selected. In which case, the student has to select an alternative Professional elective.
- 5) Students are advised to select an Open elective of their interest and if they have a prerequisite knowledge to study that particular Open elective.

Note to Departments:

- 1) Above conditions are to be monitored by an Open elective coordinator of the department to which the student belongs to and the Course coordinator of the department where the student registers for the Open elective in the beginning of the
- 2) The Teaching department(s) for Open Elective is not restricted to only those departments(s) indicated in the list. Any other department faculty who has the requisite expertise to teach a particular Open elective can also teach it.
- 3) Offering department indicated in the list of Open electives is the department/board which is responsible to set the Syllabus and Question paper for the particular Open elective.

Visvesvałaya Technological University, BELAGAVI - 590 018.

Visvesvaraya Technological University, Belagavi

B.E (CBCS) Open Electives Lists

Updated on 06-02-2018 (As per approval of Vice Chancellor's, dated:01.02.18)

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Updated on 06-02-2018 (As per approval of Vice Chancellor's, dated:01.02.18)

B.E (CBCS) 5th Semester Open Electives List:

			B.E (CBCS) 5 Semester 9		Offering
	SL	Course Co	ode Course Title	Teaching Department(s)	Department(s)
	No 1	15NC561	Essentials of NCC	This can be offered only in the Colleges having the NCC unit	Dept. offering the course
	2	15PHY561	Laser Physics and Non-linear Optics	Physics	Basic Science (Physics)
- 1	3	15CV561	Traffic Engineering	CV	cv
ľ	-	15CV562	Sustainability Concepts In Engineering	CV	CV
-	5	15CV563	Remote Sensing and GIS	cv	cv
		L5CV564	Occupational Health and Safety	CV	CV
		5ME561	Optimization Techniques	Any Branch	ME
8		5ME562	Energy and Environment	ME/Auto	ME
9		5ME563	Automation & Robotics	ME/EC/Auto	ME
-		5ME564	Project Management	ME/Auto	ME
1		SIM/IP561	Professional Communication & Report Writing	Any Branch	IP/IEM
13		IM/IP562	Concurrent Engineering	Any Branch	ID (IEs a
14		IM/IP563	Technology Management	Any Branch	IP/IEM
15		IM/IP564 MA561	Human Resource Management	Any Branch	IP/IEM
			Mechatronics	Manufacturing Sc.	IP/IEM Manufacturing Sc.
16	151	MA562	Theory of Elasticity	&Engg Manufacturing Sc.	&Engg Manufacturing Sc.
17	15N	1A563	Knowledge Management	&Engg Manufacturing Sc.	&Engg
8	15E0	C561	A	&Engg	Manufacturing Sc.
9	15E(Automotive Electronics	EC/TC/Mech	&Engg
			Object Oriented Programming	CS/IS/EC/TC/EE	EC/TC
0	15EC	563	using C++	,,, I C/ EE	EC/TC
1	15EE	_	8051 Microcontrollers	EC/TC	· ·
			Electronic Communication	EE/EC/TC	EC/TC
2	15EE	1	Programmable Logic		EE
	15EES	****	Controllers Renewable Energy Sources	EE	EE
			Lifer By Sources	EE/ME	EE

	24 15EE564	Rusina		
	25 15CS561	Business Communication	EE	EE
L	26 15CS562	Programming in JAVA	CS/IS	CS
L	27 15CS563	Artificial Intelligence	CS/IS/EC	CS
	28 15CS564	Embedded Computing Systems	CS/IS/EE/EC	CS
		Dot Net Frame work for	CS/IS	CS
	29 15CS565	Application Development		
	30 15EI/BM/ML56	Cloud Computing	Cloud Computing	CS
	31 15EI562	- Giganization	EI/BM/ML/CS/IS	EI/BM/ML
	32 15BM/ML562	Material Science	El	El
3	33 15EI/BM563		BM/ML/EI	BM/ML/EI
	15ML563	Operating Systems	EI/BM/CS/IS/EC	EI/BM
_	5	Medical Electronics Design	ML/BM	ML/BM
	15EI564	Fundamentals of	El	EI
3	6 150456	Nanotechnology		
_		Medical Physics	BM/ML	BM/ML
3	15ML564	Pharmacology and Drug	ML/BM	ML/BM
-		Delivery		IVILY DIVI
38		Biology for Engineers	Bio-Tech	Bio-Tech
39	9 15BT562	Biomaterials	Bio-Tech	Bio-Tech
40	15BT563	BT for Sustainable	Bio-Tech	
		Environment	DIO-1601	Bio-Tech
41	15AE561	History of Flight & Technology	Acronoutical Face	+
		Forecast	Aeronautical Engg.	Aeronautical Engg.
42	15AE562	Elements of Aeronautics	A	—
43		Aircraft Transportation	Aeronautical Engg.	Aeronautical Engg.
"	13/12/03		Aeronautical Engg.	Aeronautical Engg.
100	1545564	Systems		
44	 	Basics of Rockets & Design	Aeronautical Engg.	Aeronautical Engg.
45	15NT561	Introduction to Nano Science	Nanotechnology/ME	Nanotechnology
		& Technology		
46	15NT562	Nanomaterials& their	Nanotechnology/ME	Nanotechnology
		Applications		0,
47	15NT563	Nano Devices & Applications	Nanotechnology	Nanotechnology
48	15NT564	Nano Materials Synthesis &	Nanotechnology/	Nanotechnology
40	15111504	Characterization Techniques	0 ,,	Maniorecumonoga
40	45011564		Chemistry/ME	
49	15CH561	Industrial Waste Water	Chemical	Chemical
		Management		
50	15CH562	Design of Air Pollution control	Chemical	Chemical
		Equipment		
51	15CH563	Solid Waste Management	Chemical	Chemical
52				Chemical
3 Z	15CH564	Industrial Safety & Disaster	Chemical	Cilcillical
		Management		Annual de la constant
53	15PC561	Composite Materials	Petro-Chem	Petro-Chem
54	15PC562	Organic Chemistry	Petro-Chem	Petro-Chem

		1:1	Petro-Chem	Petro-Chem
55	15PC563	Reservoir Rocks & Fluid Properties	Petro-Chem	Petro-Chem Automobile
56	15PC564	Natural Gas Processing	Automobile Engineering	Engineering
57	15AU561	Automobile Engineering	Automobile Engineering	Automobile
58	15AU562	Alternative Energy Sources for Automobiles	Automobile Engineering	Engineering Automobile
59	15AU563	Non Traditional Machining	Automo	Engineering
			Mining Engineering	Mining Engineering
60	15MN561	Industrial Safety Management		Maining Engineering
61	15MN562	Industrial Management and Entrepreneurship	Mining Engineering	Mining Engineering

B.E (CBCS) 6th Semester Open Electives List:

SL No	Course Code	Course Title	Teaching Department(s)	Offering Department(s)
1	15PHY661	Advanced Physics for Engineers	Physics	Basic Science (Physics)
2	15CV661	Water Resources Management		(,)
3	15CV662	Environmental protection and management	CV	CV
4	15CV663	Numerical Methods and Applications	Any Branch/Maths	cv
5	15CV664	Finite element Method	CV	CV
5	15ME661	Energy Auditing	ME/Auto	ME
7	15ME662	Total Quality Management	ME/Auto/IEM	ME
	15ME663	Maintenance Engineering	ME/Auto	
	15ME664	Industrial Safety	ME/Auto	ME
0	15IM/IP661	Management Information Systems	IP/IEM	IP/IEM
L :	15IM/IP662	Advance Machining Process	ID/ICN4	
1	15IM/IP663	Value Engineering	IP/IFM	IP/IEM
_	L5IM664	Development of Enterprises	IP/IEM	IP/IEM
1	L5MA661	Microprocessor &	IEM Manufort	IEM
1	50.00	Microcontrollers	Manufacturing Science & Engg	Manufacturing
1	5MA662	Theory of Plasticity	Manufacturing	Science & Engg
1	5MA663	Sensors	Science & Engg	Manufacturing Science & Engg
1	5MA664	Data Mini.	Manufacturing Science & Engg	Manufacturing
	***************************************	Data Mining	Manufacturing	Science & Engg Manufacturing

1	18 15EC661		Science & Engg	Science 9.5
-		Data Structure: Using C++	CS/IS/EC/TC	Science & Engg EC/TC
19 15EC662 20 15EC663		Power Electronics	EC/TC/EE	EC/TC
		Digital System Design using Verilog	EC/TC	EC/TC
_	1 15CS661	Mobile Application Development	Any Branch	CC
	3 15CS662	Big Data Analytics	CS/IS	CS CS
2		Wireless Networks and Mobile Computing	CS/IS	CS
2		Python Application Programming	CS/IS	CS
26		Service Oriented Architecture	CS/IS	CS
27	-5 45000	Multi-Core Architecture and Programming	IS	CS/IS
28	3 15EE661	Artificial Neural Networks and Fuzzy Logic	EE/EC	EE
29		Sensors and Transducers	EE/EC	EE
30	15EE663	Batteries and Fuel Cells for Commercial, Military and Space Applications	EE	EE
31	15EE664	Industrial Servo Control Systems	EE	EE
32	15EI/BM/ML 661	Mobile Communication	EI/BM/ML/EC/TC	EI/BM/ML
33	15EI662	MEMS and NEMS	EI/BM	EI/BM
34	15BM662	Software Engineering	BM/CS/IS	ВМ
35	15ML662	Embedded Real Time Systems	ML/BM	ML/BM
36	15EI/BM/ML 663	Embedded System Design and Programming	EI/BM/ML	EI/BM/ML
37	15EI/BM664	Statistics and Numerical Methods	EI/BM/Maths	EI/BM
38	15ML664	Biomaterials and Artificial Organs	ML/BM	ML/BM
39	15MAT661	Linear Algebra	Maths/EC	Basic Science (Maths)
40	15BT661	Biological Data Management	Bio-Tech	Bio-Tech
41	15BT662	Nano BT	Bio-Tech	Bio-Tech
12	15BT663	Good Manufacturing Process	Bio-Tech	Bio-Tech
13	15CH661	Food technology	Chemical	Chemical
14	15CH662	Sugar Technology	Chemical	Chemical
5	15CH663	Petro Chemical Engineering	Chemical	Chemical
6	15CH664	Polymer & Plastic Engineering	Chemical	Chemical
7	15PC661	Modern Separation Technology	Petro-Chem	Petro-Chem
8	15PC662	Process Modelling& Simulation	Petro-Chem	Petro-Chem
9	15PC663	Material Science for Petro-	Petro-Chem	Petro-Chem
	131,0003	Chemical Engineering	, eu o-chem	
0	15PC664	Catalysis Science & Technology	Petro-Chem	Petro-Chem

		The Paging	Aeronautical Engg.	Aeronautical
51	15AE661	Unmanned Aerial Vehicles Basics	Actoria	Engg.
		& Applications	Aeronautical Engg.	Aeronautical
52	15AE662	Fundamentals of Aerodynamic	Aeronautica 288	Engg.
		Theory	Aeronautical Engg.	Aeronautical
53	15AE663	Elements of Jet Propulsion	Aeronautical Engs.	Engg.
		Systems		Aeronautical
54	15AE664	Maintenance, Overhaul & Repair	Aeronautical Engg.	
		of Air Craft Systems		Engg.
55	15NT661	Nanotechnology in Electrical &	Nanotechnology/EE/	Nanotechnology
		electronics Engineering	EC	
56	15NT662	Nanotechnology in Civil &	Nanotechnology	Nanotechnology
		Environmental Engineering	/CV/EV	1
57	15NT663	Nanotechnology in Mechanical &	Nanotechnology/ME	Nanotechnology
		Aerospace Engineering	/AE	
58	15NT664	Nanotechnology in Bio-Medical	Nanotechnology/BM	Nanotechnology
		Engineering	/BT	
59	15AU661	Engineering Economics and Cost	Automobile	Automobile
		Estimation	Engineering	Engineering
60	15AU662	Hybrid and Electric Vehicle	Automobile	Automobile
			Engineering	Engineering
61	15AU663	Non- destructive Testing	Automobile	Automobile
-	4-1-1-1-1	<u> </u>	Engineering	Engineering
62	15MN661	Tunneling Engineering	Mining Engineering	Mining
62	150401663	Underground Conse Technol	100	Engineering
63	15MN662	Underground Space Technology	Mining Engineering	Mining
		1		Engineering



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/ 55 0 6

Date: 25 SEP 2017

Circular

Sub: B.E. /B. Tech Regulations and scheme for 2017-18 and onwards-reg...

Ref: 1. This office Notification VTU/Aca/A12/2017-18/4880 dt: 14-09-2017

2. Hon'ble Vice-Chancellor's order dated: 25.09.2017

With reference to the above subject, this is to inform that the office Notification issued under ref (1) (copy enclosed), is applicable to the students seeking admission to I semester / I year B.E./B.Tech Courses during the year 2017-18.

However, w.r.t. the students seeking admission to III semester/ II year Lateral entry during the year 2017-18, the CBCS Regulations notified w.r.t. 2015-16 is applicable.

The Principals are requested to note the same and bring the contents of this notification to the all concerned.

Sd/-**REGISTRAR**

To,

The Principals of All Engineering Colleges (Affiliated / Constituent) under VTU, Belagavi Copy to:

- 1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
- 2. The Registrar (Eval.), VTU, Belagavi for kind information & necessary action.
- 3. The Incharge-Regional Directors of all the Regional Offices of VTU
- 4. The Special Officers of Academic Section, VTU, Belagavi
- 5. The Concerned Case-workers of Academic Section VTU, Belagavi
- 6. The Secretary to Registrar, VTU, Belagavi
- 7. The Circular file at Dispatch section

8. The Computer Network Centre, VTU, Belagavi to upload on VTU webaite

REGISTRAR

Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

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

Phone: (0831) 2405468 : (0831) 2405467

REGISTRAR

Ref No. VTU/Ace/A12/2017-18/4 880

Date: 1 4 SEP 2017

NOTIFICATION

Sub:

Regulations B.B/B.Tech & Scheme for 2017-18 admitted students and onwards 1. Resolution No 2 of 133rd Extraordinary Executive Council Meeting, dated: 11st

Ref: 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 CIB (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.

REGISTRAR

To,

The Principals of Constituent & Affiliated Engineering Colleges.

Copy FWCs to:

The Vice Chancellor, through Secretary to VC, VTU, Belagavi, for information.
 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.

REDISTRAR /4 10 9/17

Visvesvaraya Technological University, Belagavi



REGULATIONS GOVERNING

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

Effective from the academic year 2017 - 18

AUGUST2017

Visvesvaraya Technological University, Belagavi

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

Effective from the academic year 2017 - 18

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Visvesvaraya 'Technological University, Belagavi

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

Effective from the academic year 2017 - 18

Definitions of Keywords

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

- Programme: Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ seminars/ Internship/ assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) Branch: Means Specialization or discipline of B.E/B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.
- 3) Semester: Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety). The odd semester may be scheduled from August and even semester from February of the year.
- 4) Academic Year: Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- Course: Refers to usually referred to as 'papers' and is a component of a programme. All Courses need not carry the same weight. 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.
- 6) Credit: Referstoa unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork per week etc.
- 7) Audit Courses: Means Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 8) Choice Based Credit System (CBCS): Refers to customizing the Course work, through Core, Elective and soft skill Courses to provide necessary support for the students to achieve their goals.
- 9) Course Registration: Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counselor etc.,) in each Semester for the Institution to maintain proper record.
- 10) Course Evaluation: Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. SEE and CIE to carry 60% and 40% respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.
- 11) Continuous Internal Evaluation (CIE): Refers to evaluation of students' achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the Semester, with weightage for the different components being fixed at the University level.

Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech) Under Choice Based Credit System (CBCS) (Effective from the academic year 2017 - 18)

- Semester end examinations (SEE): Refers to examination conducted at the University level covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as university examination.
- 13) First Attempt: Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.
- Credit Based System (CBS): Refers to quantification of Course work, after a student 14) completes teaching - learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.
- Credit Representation: Refers to Credit Values for different academic activities considered, as per the Table.1. Credits for seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examination (Annexure -1).

	Table 1:	Credit Values		·····
Theory/Lectures (L) (hours/week/Semester)	Tutorials (T) (hours/week/Semester)	Laboratory/Practical (P) (hours/week/Semester)	Credits (L:T:P)	Total Credits
4	0	0	4:0:0	4
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	6	0:0:3	3

NOTE: Activities like, practical training, study tour and participation in Guest lectures not to carry Credits.

- 16) 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.
- 17) Grading: Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 170B6.0]. The rubric attached to letter grades are as follows: S - Outstanding, A - Excellent, B - Very Good, C - Good, D - Above Average, E - Average and F - Fail.
- 18) Grade Point (GP): Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

Letter Gra	ue anu c	orrespon	ning Grad	e Points of	a typical	10 - Point	scale
Letter Grade	S	Α	В	C.	D	E	F
Grade Point	10	09	08	07	06	04	00

- Passing Standards: Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 18).
- 20) Credit Point: Is the product of grade point (GP) and number of credits for a Course i.e., Credit Point (CrP) = GP × Credits for the Course

- 21) Semester Grade Point Average (SGPA): Refers to 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 of a semester and the total Course credits taken during that semester. [Refer:170B6.0]
- 22) Cumulative Grade Point Average (CGPA): 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. [Refer: 170B6.0]
- 23) Transcript or Grade Card or Certificate: Refers to a certificate showing the grades earned by a student. A grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) University: Visvesvaraya Technological University (VTU), Belagavi.



Visvesvaraya Technological University, Belagavi Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech.) Under Choice Based Credit System (CBCS)

(With effective from the academic year 2017 - 18)

(With effective from the academic year 2017 – 18)					
17OB 1.0	Title, Duration and Credits of the Programme of Study				
17OB 1.1	The programme of study shall be called the degree of Bachelor of Engineering (Subject of Specialization) /Bachelor of Technology (Subject of Specialization), abbreviated as B.E. / B.Tech. (Subject of Specialization).				
17 OB1.2	The program to which students are admitted to I semester of the programme shall be of four academic year duration divided into eight semesters and each semester is of 16 weeks duration. The programme to which students are admitted to III semester of the programme under lateral entry shall be of three academic year duration divided into six semesters and each semester is of 16 weeks duration. The programme (conducted during evening) to which students are admitted to III semester of the programme under lateral entry shall be of three academic year duration divided into six semesters and each semester is of 16 weeks duration. The deficit contact hours of the programme, conducted during evening are all the state of the programme, conducted during evening are all to the state of the programme, conducted during evening are all to the state of the programme, conducted during evening are all to the state of the programme, conducted during evening are all to the state of the programme, conducted during evening are all to the state of the programme.				
17 OB 1.3	compensated on all Sundays (except on general holidays). The calendar of events in respect of the program of study shall be notified by the University in advance.				
17 OB 1.4	The University examination in all programs of study shall be conducted at the end of each semester for all the eight semesters.				
	 i. Students admitted to I year B.E/ B.Tech shall complete the programme within a period of eight academic years from the date of first admission, failing which they have to discontinue the Course. ii. Students admitted II Year B.E./B.Tech. under lateral entry scheme shall complete the Programme within a period of six academic years from the date of first admission, failing which he/she has to discontinue the Course. b) i. A student who has not obtained the eligibility for III semester even after three academic years from the date of admission to I semester shall discontinue the Programme or get readmitted to I semester of first year B.E./B.Tech. with a new University Seat Number but retaining the same year of admission. ii. A student (under lateral entry scheme) who has not obtained the eligibility for V semester even after three academic years from the date of admission to III semester shall discontinue the Programme or get readmitted to III semester of II year B.E./B.Tech. with a new University Seat Number but 				
17 OB 1.6	retaining the same year of admission. Prescribed Number of Credits for the Programme: (a) The number of credits to be completed by students admitted I semester of B.E./B.Tech. programme shall be 200 (b) The number of credits to be completed by students admitted to III semester of B.E./B.Tech. programme under lateral entry scheme shall be 152				

17 OB2.0	Eligibility for Admission As per the Government orders issued from time to time)
17 OB2.1	Admission to I year/ I semester Bachelor Degree in Engineering/ shall be open to the students who have passed the II PUC/ XII Standard/ Equivalent Examination with English as one of the Languages and obtained a Minimum of 45% of Marks in aggregate in Physics and Mathematics along with Chemistry / Bio-Technology / Biology / Electronics / Computer. In case of SC/ST, Category -1 and OBC (2A, 2B, 3A and 3B) category students from
	Karnataka (Karnataka candidates) the minimum marks for eligibility shall be 40 %. With regard to the qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory for admission to B.E./B.Tech. programme. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the Equivalence committee shall be the final in establishing the eligibility of the student. Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the Diploma holders and B.Sc. graduates.
17 OB2.2	 (i) Diploma Holders (a) Must have passed diploma or equivalent examination as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and 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%). (b) Those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka. (ii) B.Sc. Graduates
	Must have passed B.Sc. degree from a recognized University under the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (considering the marks of all six semesters). In case of SC/ST and OBC students from Karnataka (Karnataka candidates) the minimum marks for eligibility shall be forty percent (40%). Candidates must have studied Mathematics as subject of study at XII Standard.
	(i) Diploma Holders for the programme conducted during evening A candidate who has passed diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (fifth and sixth semesters) diploma examination is eligible to B.E Courses, and 40 % of marks in case of SC/ST and backward classes of Karnataka candidates. In addition to this a candidate after passing the diploma, must have minimum of two years full time professional experience as on first September of the year of admission, in a registered firm/company/industry/ educational / Government / Autonomous organizations in the branch of Engineering/ Technology, in which the candidates hold a diploma, and in which admission is sought by him/her.

17 OF

COD

	Further that employment shall be in an establishment situated within the 15 km.
45 OD2 2	Further that employment shall be in an establishment seeking admission.
17 OB2.2	Further that employment shall be in an establishment of the specific from the place of the institution to which the candidate is seeking admission. from the place of the institution to which the candidate is seeking admission.
(continued)	from the place of the institution to which the candidate is a semployee on Professional experience refers to the experience earned as an employee on
	regular basis in, Public Sector Undertaking,
	regular basis in, (a) Government, Government Undertaking, Public Sector Undertaking,
	(a) Government, Government,
	Corporation or, (b) In a private company registered under the Directorate of Industries and
	Commerce or the Directorate of Small Scale Industries or,
	(c) Government, Government recognized Institutions as technical staff.
	(c) Government, Government recognized institutions and also be treated as Provided that the period of apprenticeship undergone shall also be treated as
	Provided that the period of apprenticeship undergone state Provided that the period of Apprenticeship Training,
	professional experience, if sponsored by the Board of Apprenticeship Training,
	Southern Region, Chennai or by Government, Government undertakings and
	Public Sector undertakings.
	Further, those candidates who have completed Diploma from other than
	Karnataka state shall provide the Equivalence/ Eligibility Certificate from the
	Director of Technical Education, Karnataka.
17 OB2.3	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
1	Visvesvaraya Technological University, Belagavi.
17 OB3.0	Courses
17 OB3.1	There shall be the following types of Courses:
1. 020.2	a) Humanities and Social Sciences (HSS) including Management. These are
	mandatory for all disciplines.
	b) Basic Sciences (BS): Physics, Chemistry and Mathematics. These are mandatory
a	for all disciplines.
	c) Engineering Sciences (ES): Materials, Workshop, Drawing, and Basics of
	Electronics/ Instrumentation/ Civil/ Mechanical/ Computer
,	Engineering. These are mandatory for all disciplines.
,	d) Professional Subjects (PS) - Core: Are the professional Core (PC) Courses,
4.	relevant to the chosen specialization/ branch. The core Courses are to be
	compulsorily studied by a student and are mandatory to complete them to fulfill
	the requirements of a programme.
	e) Professional Subjects (PS) - Elective: Are the professional Electives (PE),
	relevant to the chosen specialization/ branch and can be chosen from the pool of
	papers. It shall be supportive to the discipline providing extended
	scope/enabling an exposure to some other discipline /domain and nurturing
	student proficiency skills.
	f) Open Subjects - Electives (OE): Are from other technical areas and/ or from
	emerging fields.
	g) Mini project and Main Project: Carried out at the Institution or at an Industry.
	h) Seminar: Deliverable at the Institution under the supervision of a Faculty.
	i) Internship: Preferably at an industry/R and D organization/IT company/
	Government organization of significant repute for a specified period mentioned
1	in the Scheme of Teaching and Examination.
	j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of
	a grade or credit, for students admitted to B.E./B.Tech. program. A pass in each
	mandatory Course is required to qualify for Degree award from the University.

	the state of the s
ì	k) Audit Courses (AC): Knowledge/ skill enhancement Courses without the benefit
7 OB3.1	of a grade or credit for a Course.
ontinued)	i) The Audit Course/s (other than the Course/s considered for completing the
	prescribed program credits) can be any Course offered by the program to
	which the student is admitted to other programs offered in the institution
	where the student is studying.
	ii) The students who are interested in audit Courses can register for one audit
	Course at a time during III to VIII semesters. Students, who have opted for
	audit Courses and considered on par with students registered for creat
1	Courses, have to satisfy the attendance and CIE requirements. However, they
	need not have to appear for SEE.
	The number of registrations to an audit Course is restricted to 10 % of the
	AICTE intake.
	iii) Registration for any audit Course, in writing, shall be completed at the
	beginning of semesters. The Institution should intimate the Registra
	(Evaluation) about the registration at the beginning of the semester and
	obtain a formal approval for inclusion of the audit Course/s in the Grade
	cards/ Transcripts issued to the students.
17 OB3.2	The minimum number of students registered to any Elective offered by the Department
1, 02012	shall be not less than ten
17 OB3.3	A student shall exercise his option in respect of Elective Courses and register for the
	same at the beginning of the concerned semester.
	The student may be permitted to opt for a change of Elective Course within 15 days
	from the date of commencement of the semester as per the calendar of the University.
17 OB3.4	Course Registration: Every student shall register for the Courses of a semeste (Credits) under the supervision of a Faculty Advisor (also called Mentor Counselor etc.,) in each Semester for the Institution to maintain proper record.
17OB4.0	Internship/Professional Practice
17OB4.1	Internship / Professional Practice:
1,02	1) The Internship shall be completed during the period specified in the Scheme of
	Teaching and Examination.
	2) The internship can be carried out in any industry/R and D Organization/Research
	Institute/ Educational institute of repute.
	3) (a) The Department/college shall nominate staff member/s to facilitate, guide and
	supervise students under internship.
	(b) The Internal Guide has to visit place of internship at least once during th
	student's internship.
	4) The students shall report the progress of the internship to the guide in regular
	intervals and seek his/her advice.
	5) After the completion of Internship, students shall submit a report with completio
	and attendance certificates to the Head of the Department with the approval of bot internal and external guides.
	6) There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 mark
1	for Viva – Voce conducted during SEE. The minimum requirement of CIE mark
	shall be 50% of the maximum marks. [To be read along with 17 OB 8.6]
	7) The internal guide shall award the marks for seminar and internship report after
i	evaluation. He/she will also be the internal examiner for Viva - Voce conducte

	(0) The	al auda fra	m the in	duetra, chal	l he an e	xaminer t	or the vi	Va voce o
	8) The extern	al guide iro	m the mo	LUSUY SHAL	a omdusto	d at the co	ollege ond	the data
		Viva-Voce o						
		shall be f			with the e	xternal G	uide. Ine	Examine
	1	y award the \						
	9) In case the		_		_			
	Superinten	dent of the in	nstitution	shall appo	int a senio	r faculty	of the De	partment
	conduct vi	va-voce alor	ng with t	he internal	guide. T	he same s	shall be i	nformed
		the concerne						
	10) The studen	its are permi	tted to ca	rry out the	internehir	anunyhar	aj. Ain India	on oh
	The Unive	rsity will no	t provide	any kind a	nitornoni of financia	l appietant	c III IIIIIII	student 6
1505	Carrying Of	ut the interns	מות.					
17OB4.2	Failing to unde	ergo Internsh	ip: Intern	iship is one	of the he	ad of pas	sing Con	unletion o
	meniship is it	nandatory. If	any stude	ent fails to a	undergo /c	omnlete ti	he interna	hin ha/ah
	shall be consider	dered as faile	d in that (Course and	chall not b	ompiete ti	ne mienis	mp, ne/sn
	in that Course	. However	student of	hall appear	for CEE	e permitte	to appe	ar for SEI
	prescribed for	Internship T	he reanne	aranaaL.	TOT SEE (arter satisf	tying the	condition
17OB5.0	Seminar and	Project	reappe	carance sna	n de consid	iered as ai	attempt.	····
17OB5.1	Seminar: Sem		F4L 1	1 0				
	i) Each can	ngigate ar in	une head	or passing	•			
	-) Duch Call	ididate shall	deliver	seminar a	as per the	Scheme	of Teac	ching and
	Evaminat	in 11 .				10.41.00	_	
	Examinat	ion on the to	pics chose	en from the	relevant fi	elds for ab	out 30 mi	nutes
	ii) The Head	of the Depar	tment sha	ll make arm	Televant II	elds for ab	out 30 mi	nutes.
	ii) The Head through c	of the Depar	tment sha	ll make arra	angements	for condu	out 30 mi	nutes. ninars
	ii) The Head through c for the pu	of the Depar concerned fac- urpose by the	tment sha culty men	all make arrangers of the	angements Departme	for conduction of the conducti	out 30 mi cting sen mmittee c	nutes. ninars onstituted
	ii) The Head through c for the pu seminar.	of the Depar concerned fac- urpose by the The committ	tment sha culty mem Head of	all make arrangements of the Depart	angements Departme	for conduction to the conduction of the conducti	out 30 mi cting sen mmittee c c CIE mar	nutes. ninars constituted ks for the
	ii) The Head through c for the pu seminar.	of the Depar concerned fac- urpose by the The committ	tment sha culty mem Head of	all make arrangements of the Depart	angements Departme	for conduction to the conduction of the conducti	out 30 mi cting sen mmittee c c CIE mar	nutes. ninars constituted ks for the
17OR5 2	ii) The Head through c for the pu seminar. ' senior mo 8.6].	of the Depar concerned fac- urpose by the The committee ost acting as	tment sha culty mem e Head of see shall c the Chai	all make arrangers of the Depart onsist of the Irman/Chair	angements Departments shall ree faculty reerson. [T	for conduction to the conduction of the conducti	out 30 mi cting sen mmittee c c CIE mar	nutes. ninars constituted ks for the
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	(iii) A student obtaining Grade 'F' in a Course shall be considered failed and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his / her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts.
17OB 6.2	Computation of SGPA and CGPA (as per UGC Guidelines)
	The following procedures shall be used to compute the Semester Grade Point Average
	(SGPA) and Cumulative Grade Point Average (CGPA) respectively:
	i) The SGPA is the ratio of sum of the product of the number of credits with the
	grade points secured by a student in all the Courses taken by him/her and the
	sum of the number of credits of all the Courses undergone by a student, i.e.,
	$SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$
	Where C _i is the number of credits of the i th Course and G _i is the grade point
	scored by the student in the i th Course.
	ii) The CGPA is also calculated in the same manner taking into account all the
	Courses undergone by a student over all the semesters of a programme, i.e.,
	$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$
u.	Where S _i is the SGPA of the i th semester and C _i is the total number of credits in that semester.
	The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

Illustration for Computation of SGPA and CGPA

Mazn	auom -	-	
Comp	utation	of	SGPA

Illustration			a la soint	Credit Point = (Credit × Grade)
Course	Credit	Grade letter	Grade point	4 × 08 = 32
		В	08	4 × 08 - 32 4 × 06 = 24
Course 1	4 	D	06	$4 \times 00 - 24$ $4 \times 07 = 28$
Course 2 Course 3	4	C	07	$3 \times 10 = 30$
Course 4	3	S	10	$3 \times 04 = 12$
Course 5	3	E	04	3 × 06 = 18
Course 6	3	D	06	2 x 09 = 18
Course 7	2	A	09	$2 \times 06 = 12$
Course 8	2	D	06	174
Total	25			
Thus SGP	A = 174/25	5 = 6.96		

Illustration No.2							
Course	Credit	Grade letter	Grade point	Credit Point = (Credit × Grade)			
Course 1	4	В	08	4 x 08 = 32			
Course 2	4	D	06	4 × 06 = 24			
Course 3	4	C	07	$4 \times 07 = 28$			
Course 4	3	S	10	$3 \times 10 = 30$			
Course 5	3	F	00	3 × 00 = 00			
Course 6	3	D	06	3 × 06 = 18			
Course 7	2	A	09	$2 \times 09 = 18$			
Course 8	2	D	06	2 ×06 = 12			
Total	25	_	-	162			

If a Student secures letter grade C during reappearance then the SGPA is Calculated as shown below.

Illustration No. 2(a)

Course	Credit	Grade letter	Grade point	Credit Point = (Credit X Crade)
Course 5	3	С	07	$7 \times 03 = 21$

Total Credit Points = Credit Points of first Attempt) + Credit Points of subsequent attempt =162 + 21 = 183

Total credits of the semester = 25

Thus, SGPA= 183/25=7.32

Ilustratio	n No.3			• }
Course	Credit	Grade letter	Grade point	Credit Point = (Credit x Grade)
Course 1	4	В	08	4 x 08 = 32
ourse 2	4	D	06	$4 \times 06 = 24$
Course 3	4	C	07	$4 \times 07 = 28$
ourse 4	3	S	10	$3 \times 10 = 30$
ourse 5	- 3	A	09	$3 \times 04 = 18$
ourse 6	3	D	06	3 x 06 = 18
ourse 7	2	A	09	$2 \times 09 = 18$
ourse 8	2	D	06	$2 \times 06 = 12$
Total	25		-	189

CGPA (from litustrations 2 and 8) = $\frac{25 \times 7.52 + 25 \times 7.56}{50} = 7.44$

17OB 6.2	Semester	1	II	Ш	IV	V	VI	VII	VIII
(continued)	Credits of the semester	24	24	27	27	24	24	24	26
	SGPA	7.00	8.50	9.20	6.86	8.18	7.73	8.68	9.40
	bolk	7.00	1	1					
	Thus CGPA = (24 × 7.30 + 24 × 8.50 +	27×9.20	+ 27 × 6.8	6+ 24 × 8.	18 – 24 X	7.73 + 24>	< 8.68 + 26	x 9.40)	= 8. 20
				200					
17OB 6.3	Transcript Format:	Based o	on the se	cured let	ter grade	s, grade	points,	SGPA ar	nd CGPA,
	the transcript for each	h semest	er and a	consolid	ated trans	script inc	licating t	he perfo	rmance in
	all semesters shall be								
17OB 7.0	Conversions of Grad			_					
17OB 7.1	Conversion Formula						age Is Gi	ven Belo)W
	Percentage Of Marks	Secured	I, P = [C]	GPA Earr	red - 0.7:	5] X 10			
	Illustration For A CG			71500					
17OB 7.2	P = [CGPA Earned 8] Class Declaration:	6.2 - 0.75]X 10 =	/4.5 %					
1705 7.2	After the conversion	of final	CGPA i	nto perce	entage of	marks	(P), a gra	aduating	student is
	declared to have pass			ano pere	ozungo oz	120112	(-), - 6-	.	
	(i) First Class with D		n (FCD)	if P ≥ 70°	%				
	(ii) First Class (FC)	if $P \ge 6$	0% but <	70% and					
	(iii) Second Class (S	C) if P <	60%.						
17OB8.0	Continuous Interna	al Evalu	ation			*************************************		***************************************	
17OB8.1	For each theory and	•				l be 40.			
	For Technical semin	-							
	For Internship/ Profe For Project Phase -							CIE ab	JI L. 100
	respectively.	-1 and 1	Toject se	Jililiai ai	iu Trojec	ot I Hase	-11, the	CIE Sna	ill be 100
17OB8.2	CIE Marks in each	theory	Course	shall be	the sum	of mar	ks presc	ribed fo	r test and
	assignment.								
	Marks prescribed fo	r test sha	ill be 30 a	and that f	or assign	ment is 1	0.		
	The CIE marks for	test in a t	theory Co	ourse sha	ll be base	ed on thre	ee tests g	enerally	conducted
	at the end of fifth, to	enth and	fourteent	th week o	of each se	mester.	Each test	shall be	conducted
	for a maximum of 3	U marks	and the f	inal mark	s shall b	e the ave	rage of th	rree tests	
	The remaining 10 tests/written Quizze	marks sn es that si	iall be av	warded b	ased on	the evaluation	uation of	Assign	ments/Unit
	CIE marks awarded	shall be	the sum	of these t	wo out o	f maximi	se/progra	m outco marke	mes. Final
	The candidates sh	all wri	te the	Internal	Assessi	ment T	ests and	Assign n	nents/Tinit
	tests/written Quizze	s in Blu	ie Books	which :	shall be	preserve	ed by th	e Princi	heal \leni
	of the Department	for at	least	three yea	urs after	the ar	mouncen	nent of	I Iniversity
	results and shall	be made	availab	le for v	erification	on at th	ne directi	on of the	e Registrar
	(Evaluation).								

Marks on continuous evaluation based on conduct of experiment, viva and report writing) one practical test (10 Marks) to be conducted at the end of the semester. (i) The CIE marks for I year Computer Aided Engineering / Drawing: a) 24 marks for class work (sketching and Computer Aided engineering Drawing). b) 16 marks for sets conducted in the same pattern as that of SEE (The marks secured be taken as best of the two tests). (ii) The CIE marks for other Drawings/ Design Drawings offered by various branches shat based on the evaluation of the sheets and one test in the ratio 60:40. 170B8.5 The CIE marks in the case of projects and seminars in the final year shall be based on evaluation at the end of VIII semester by a committee consisting of the Head of the concern Department and two senior faculty members of the Department, one of whom shall be project / seminar guide. 1. For theory Courses, there shall not be any minimum requirements of CIE marks. iii. Minimum requirement of CIE marks for Practical/ Internship/Project work shall be of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maxim marks. 170B8.7 Students failing to secure a minimum of 50% of the CIE marks in Practic Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall appear for SEE. ii) If any student fails to secure a minimum of 40% of the maximum CIE marks in seminar fails to deliver the seminar, beshe shall be considered as failed in that Course and shall not be eligible for the award of degree. However, the student shall become eligible for subsequent semester/s. iii) The Course/s under 170B8.6 (ii) and (iii), when repeated are con		
one practical test (10 Marks) to be conducted at the end of the semester. (i) The CIE marks for I year Computer Aided Engineering / Drawing: a) 24 marks for class work (sketching and Computer Aided engineering Drawing). b) 16 marks for test conducted in the same pattern as that of SEE (The marks secured be taken as best of the two tests). (ii) The CIE marks for other Drawings/ Design Drawings offered by various branches sha based on the evaluation of the sheets and one test in the ratio 60-40. The CIE marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of VIII semester by a committee consisting of the Head of the concert Department and two senior faculty members of the Department, one of whom shall be project / seminar guide. 170B8.6 1. For theory Courses, there shall not be any minimum requirements of CIE marks. ii. Minimum requirement of CIE marks for Practical/ Internship/Project work shall be 5 of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks. iii. Students failing to secure a minimum of 50% of the CIE marks in Practical Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project works shall end to be eligible for the Practical / Internship/Project works shall end to be eligible for the Practical / Internship/Project works shall shall not be eligible for the Practical / Internship/Project works shall appear for SEE. ii) Students after satisfying the prescribed minimum CIE marks in the Course/s when offer dearer satisfying the prescribed minimum CIE marks in the Course/s when offer fails to deliver the seminar, he/she shall be considered as failed in that Course and she to deliver the seminar, he/she shall be considered as failed in that Course and she eligible for the award of degree. However, the student	17OB8.3	In the case of a Practical, the CIE marks shall be based on the laboratory journals/records (30
(i) The CIE marks for I year Computer Aided Engineering / Drawing: a) 24 marks for class work (sketching and Computer Aided engineering Drawing). b) 16 marks for test conducted in the same pattern as that of SEE (The marks secured be taken as best of the two tests). (ii) The CIE marks for other Drawings/ Design Drawings offered by various branches sha based on the evaluation of the sheets and one test in the ratio 60.40. The CIE marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of VIII semester by a committee consisting of the Head of the concern Department and two senior faculty members of the Department, one of whom shall be project / seminar guide. i. For theory Courses, there shall not be any minimum requirements of CIE marks. ii. Minimum requirement of CIE marks for Practical/ Internship/Project work shall be 5 of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks. iii. Students failing to secure a minimum of 50% of the CIE marks in Practical Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for the Practical / Internship/Project work shall not be eligible for University examinations conducted by the University and they shall be considered as failed that/those Course/s. However, they can appear for University examinations conducted other Courses of the same semester and backlog Courses if any. Students after satisfying the prescribed minimum CIE marks in the Course/s when offer if if any student fails to secure a minimum of 40% of the maximum CIE marks in seminar fails to deliver the seminar, he/she shall be considered as failed in that Course and shout he eligible for the award of degree. However, the student shall become eligible for the award of degree. However, the student s		
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170B8.9 If a student remains absent for all the CIE tests conducted, the CIE Marks shall be marked at AB for the Courses against the University Seat Number (USN) of the student in the mark sheet submitted to the University by the Principal of the College. Improvement of CIE marks shall not be allowed in a. Theory Courses and b. Laboratory/Workshop/Seminar/Internship/Project where the student has already secure the minimum required marks. 170B8.11 The final list, incorporating corrections (if any) of CIE 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 Principal to the University Examination Section within the stipulate date. Every page of the CIE marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal. Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall indicate the number of the concerned to the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the Head of the Department shall indicate the number of the cases the head of the De		Registrar (Evaluation)
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leacher(s) and in such cases the Head of the Department shall indicate the number of	17OB8.12	Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned
corrections on every thank and the		Teacher(s) and in such cases the Head of the Department shall indicate the number of
corrections on every sheet and attest it with his/her signature.		corrections on every sheet and attest it with his/her signature.
	7OB8.12	Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall indicate the number of

17OB8.13	CIE marks shall reach the University before the commencement of examination as per the
1,020.20	notification issued from the office of the Registrar (Evaluation) from time to time. After the
	submission of CIE marks to the University, any request under any circumstances for change
	of CIE marks shall not be considered.
17OB 9.0	Eligibility for Passing and Award of Degree(To be read along with 170B4.2, 5.1, 5.2, 8.6
	and8.7)
17OB 9.1	(a) For a pass in a theory Course/Drawing, the student shall secure minimum of 35% of the
	maximum marks prescribed in the University examination and in total 40% of the
	maximum marks (i.e., prescribed for SEE and CIE) including the CIE marks secured by
	the student.
	(b) The Minimum Passing letter grade in a Course is 'E'.
	(c) 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.
	The Minimum Passing Grade in a Course is 'E'.
17OB 9.2	1) A student who obtain any grade from 'S' to 'E' shall be considered as passed.
	2) If a student secure F grade in any of the head of passing (17 OB 4.2, 17 OB 5.1, 17 OB 5.2
	and 17 OB 11.2) he/she has to reappear in that head for the SEE. 3) A student will be declared successful at the end of academic year if he/she has not more
	than four 'F' grades in the immediate preceding two semesters.
	4) A student will be declared successful at the end of program, when he/she has none of the
	Courses remaining with F grade and shall have CGPA of greater than or equal to 5.00.
	5) In case, the CGPA falls below 5.00 at the end of the program, the student shall be
	permitted to appear again for SEE in full or part of the previous semester Courses by
	rejecting the performance for required number of Course's (other than seminar, Project
ŭ	and Practical's) and times, subject to the provision of 170B1.5, to make up CGPA equal
1	to or greater than 5.0. The student should reject the SEE results of the previous attempt
	and obtain written permission from the Registrar (Evaluation) to reappear in the
	subsequent SEE.
17OB 9.3	The students who do not satisfy the provision 170B9.2 (1) and the students who remain
	absent for the University examinations shall be deemed to have failed in that Course/s. They
	have to reappear for the University examination in the subsequent examinations. The CIE marks awarded to the student/s at first attempt in the concerned theory Course/s will be
	carried forward. Revised CIE marks are considered only in cases under the provisions of 170B8.7.
1505.01	Students who pass a Course of a semester as per 170B 9.1 and has earned CGPA equal to or
17OB 9.4	greater than 5.00 shall not be allowed to appear for any individual Course/s again, unless they
	opt for rejection of results of entire semester as per 170B 9.5.
17OB9.5	A student may, at his/her desire, reject the total performance of a semester (including CIE
	marks) or reject only the result of his/her performance in University examination of a
15000	semester. The rejection is permitted only once during the entire programme of study.
17OB9.6	The student who desires to reject the results of a semester shall reject performance in all the
	Courses of the semester, irrespective of whether the student has passed or failed in any
	Course. However, the rejection of performance of VIII semester project shall not be permitted.
L	panning.

15000	A student, who desires to reject the total performance of a semester including CIE marks, has
17OB9.7	
	of readmission shall be sent to the Registral through the I interpar of
	Application for approval of readilission shall be selected by 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 and
	therefore the student will continue to have the same University Seat Number, which was
	allotted earlier. The Course duration (as per 170B1.5) will be counted with reference to old
	USN.
17OB9.8	The student, who rejects only the results of University examination of a semester, shall be
	permitted to re-appear for University examinations of all the Courses of that semester in the
	subsequent examinations. However, the CIE marks obtained by the student in the rejected
	semester shall be retained.
	Applications for rejection and approval to reappear for University examination 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 results of University examination is of odd semester, the student shall be
	anowed to take admission to the immediate next even semester. However, if the rejection of
	results of Omversity examination is of even semester, then the student shall not be allowed to
17OB9.9	take admission to the next odd semester (as per 170R11.2)
17009.9	Students who opt for rejection of results of University examination are eligible for the award
17OB9.10	of class and distinction, but are not eligible for the award of ronks
-/-025/10	A student shall be declared to have completed the program of B.E. / B.Tech. degree, provided the student has undergoes the still 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 Scheme of Teaching and
	Examination and has earned the prescribed number of credits as per the provision 170B1.6,
17OB10.0	having CGPA \geq 5 with none of the registered courses remaining with 'F' grade.
17OB10.1	Attendance Requirement
270210.1	Courses of each semester shall be treated as a separate unit for calculation of the
	attendance. The california lias to but in a minimum attendance of 050/:
	provision to conduite 10% of the attendance by the Vice Channel
	of the fillicipal of the condidate
	medical grounds, participation in University/State/ National/ In-
	outlines, schilliars, workshops paper presentation at a continue of the contin
	The supporting documents for condoning the shortage of attendance are to be submitted along with the recommendations.
17OB 10.2	The two recommendations.
17OB 10.2	The datum for the calculation of attendance shall be the number of Teaching hours prescribed for a Course 150 hours for 04 credit Course (1)
	The state of the s
	To a serious more than the date of commencement of the semester In account to
	decined as (caching hollrs) is equal to the mumber of
	. The individual incauling.
	In case of late admission, approved by competent authority (DTE/VTU), to I semester/III
	The second secon
	The state of the s
	admission to the programme.

17OB10.3	The Course Instructor/ Mentor/College shall inform the students as well as their parents about the attendance status periodically. Students who are facing the shortage of attendance be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance.
17OB10.4	A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 170B10.1 shall not be eligible to appear for the SEE of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.
17OB 10.5	The list of the candidates falling short of attendance shall be sent to Registrar (Evaluation) at least once in a month and final list shall be sent one week prior to the commencement of the examination. The detained students should obtain permission from Registrar, VTU for readmission to the semester concerned as a repeater.
17OB 11.0	Promotion and Eligibility
17OB 11.1	There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
17OB 11.2	A student shall be eligible for promotion from an even semester to next odd semester 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 Courses of all the lower semester examinations. Each credit Course shall be treated as a head of passing.
	Illustrations:
	a) A student seeking eligibility to III semester should not have failed in more than 4 heads of passing of I and II semesters considered together.
	b) A student seeking eligibility to V semester should have passed in all the subjects of I and II semesters and should not have failed in more than 4 heads of passing of III and IV semesters considered together.
	c) A student seeking eligibility to VII semester should have passed in all the subjects up to IV semester and should not have failed in more than 4 heads of passing of V and VI semesters considered together.
	 Lateral entry scheme: a. A student seeking eligibility to V semester should not have failed in more than 4 heads of passing of III and IV semesters considered together. b. A student seeking eligibility to VII semester should have passed in all the subjects of III and IV semesters and should not have failed in more than 4 heads of passing of fifth and sixth semesters considered together.

All students admitted to I semester and to III semester under lateral entry 170B 11.3 scheme to B.E./B.Tech. programme have to undergo the Mandatory non - credit Courses viz., Environmental Studies and English Language. However these Courses shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. b. The Courses viz., Advanced Mathematics I and II, to be completed by the candidates (diploma holders) admitted to III semester under lateral entry scheme shall not be considered for the eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree. c. The Courses Viz., (i) Computer Aided Engineering Drawing (ii) Programming in C and Data structure and (iii) Environmental Studies (if not studied at B.Sc. level), to be completed by the candidates who have passed B.Sc. degree and admitted to III semester of the programme, shall not be considered for the award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree. 17OB 12.0 Temporary Discontinuation/Break in the Program 170B 12.1 a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the programme during any semester intentionally, he/she may be permitted to continue the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining Course work subject to the provision 17 OB 1.5. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank. b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank.

17OB 13.0	Award of Prizes, Medals and Ranks
17OB 13.1	For the award of Prizes and Medals, the conditions stipulated by the Donor shall be
	considered subject to the provisions of the statutes framed by the University for such
	awards.
17OB 13.2	1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the
	CGPA secured by the students from III to VIII semester is considered.
	2) A student shall be eligible for a rank at the time of award of degree of
	Bachelor of Engineering/ Technology, provided the student,
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	(i) Has passed I to VIII semester in all the Courses in first attempt only in case
	of candidates admitted I year
	(ii) Has passed III to VIII semester in all the Courses in first attempt only in case
	of candidates admitted under lateral entry scheme.
	(iii) Has completed all the prescribed Audit/mandatory Courses.
	b) Is not a repeater in any semester because of rejection of result of a semester
	shortage of attendance etc.
	c) Has completed all the semesters without any break/discontinuity.
	d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college
7	or in any VTU affiliated non-autonomous college.
	e) Has not been transferred from autonomous institution affiliated to VTU or from
	any other University. 3) The total number of ranks awarded shall be 10% of total number of students
	appeared in VIII semester subject to a maximum of 10 ranks in a Specialization.
	4) For award of ranks in a Specialization, a minimum of 10 students should have
	appeared in the VIII semester examination.
	Illustration:
	a. If 1228 students appeared for the VIII semester in Electronics and
	Communication Engineering programme, the number of ranks to be
	awarded for Electronics and Communication Engineering shall be 10.
	b. If 90 students appeared for the VIII semester in Biomedical Engineering, the
	number of ranks to be awarded for Biomedical Engineering will be 09.
	5) In case of fractional number of ranks, it is rounded to higher integer only when the
	first decimal place value is greater than or equal to 5.
17 OB 13.3	Ranks are awarded based on the merit of the students as determined CGPA. If two
	or more students get the same CGPA, the tie shall be resolved by considering the number
	of times a student has obtained higher SGPA. If it is not resolved even at this stage, the
	number of times a student has obtained higher grades like S, A, B etc., shall be taken
	into account to decide the order of the rank.

17OB 14.0	Transfers of Students
17OB 14.1	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.
	(a) Transfer of students from one non - autonomous to another non - autonomous
	college affiliated to VTU is permitted with the approval of the Registrar, VTU
	subject to the provision 170B11.2.
	The students seeking transfer shall have to,
*	(i) Obtain No Objection certificate for admission from the University and from
	both the colleges before the commencement of term as notified by VTII
	(ii) Complete the programme subject to the provision 170P1 5
	(b) Transfer of students from an autonomous to non – autonomous college affiliated
	be permitted with the approval of the Registrar VIII manifeld
,	Probable in the Courses of the previous semesters
	The students seeking transfer shall have to
	(i) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notifically are supported by the contract of terms are notifically as a contract of terms are not of terms a
	establishing equivalence between two and racting of Engineering, on
	issued to that effect. A Grade card shall be
	Additional Course/s shall not be considered for the Eligibility criterion prescribed for promotion, Class, calculation of SGPA and CGPA.
ì	prescribed for promotion, Class, calculation of SGPA and CGPA. However, a
	Degree.
	III I COMplete the programme and the state of
	() All the edge of singleting from I intromplet
, ,	passed in all the Courses of I and II semesters for admission to III semester and all the Courses of I to IV semesters for admission to V semester and all
,	the Courses of I to IV semesters for admission to V semester and all I to VI semesters for admission to VII semester and all the Courses of
	I to VI semesters for admission to VII semester.
	The students seeking admission from other Universities to VTU shall have to,
	i) Apply for establishment of equivalence with prescribed fees as notified by the
	before commencement of term as notify 11 admission from the University
	ii) Produce No Objection certificate for admission for a
	commencement of term as notified by VTU.
	111) Complete additional Course/s if any an and the
	of Studies and approval of Dean, Faculty of Engineering, on establishing
	equivalence between two schemes. A Grade card shall be issued to that effect.
	for promotion, Class, calculation of SCRA and GCRA
	additional Courses, if any, is mandatory before the completion of Degree.
	(ii) Complete the programme subject to the provision 170B1.5.
17 OB 14.2	Transfer of students within the College from and by
	Transfer of students within the College from one branch to another branch at the start of
1507	provisions made by the Government of Kamatal of the Registrar, VTU subject to the
17OB 14.3	The University may prescribe fee for administration and AICIE in this behalf.
	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)
	branch to another branch (change of branch within the college).
	or or oranger within the confess,

17 OB 15.0	Applicability and Power to Modify
17 OB15.1	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.
17 OB15.2	 i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty. ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.



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			AD RAYA TECHNOL	nexure -1	ERSITY.	BELAGAVI					
		VISVESVA	home of Teaching	and Examination	II LUI / L	018					
			Choice Resed	Credit System (CDCO						
		I	SEMESTER B.E./	B.Tech. (PHYSIC	CS GROU	aching		Exami	netton	·····	T
						rs /Week		LIADE	BRUOR		┦ _
Sl. No	Course Code	Course Title	Teaching Department	Board	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17MAT11	Engineering Mathematics	Mathematics	Basic Science	04		03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04		03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04		03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04		03	60	40	100	4
5	17ELE15	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04		03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering		Instruction Practical	03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	3	Instruction Practical	03	60	40	100	2
8	17ENG18	Language – English (Audit Course)	Humanities		01				-	-	-
				TOTAL		21 hours al: 06 hours	21	420	280	700	24
		II	SEMESTER B.E./I	Tech (CHEMIS	TDV CD	OTID:					
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	-]	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	. 04	-	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	_	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering		Instruction r Practice	03	60	40	100	4
5	17ELN25	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	-	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	1	Tutorial Practical	03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science		r Tutorial r Practical	03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tuto			30	20	50	
-				TOTAL		y:21 hours cal: 08 hours	21	450	300	750	24

(w.e.f. academic year 2017 - 18)

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

_		1 26	MESTER B.E./B.7	een (Chewist)	Te	aching		Exami	nution		
	Course Code	Course Title	Teaching Department	Board	Theory	Practical/ Drawing yas	Duration in hours	SEE Marks	CIE Marks	Total Marks	- Stanton
+	10) (AT)	Engineering Mathematics -I	Mathematics	Basic Science	04	-	03	60 60	40	100	4
+	17MAT11	Engineering Chemistry	Chemistry	Basic Science	04		03	60	40	100	\vdash
+	17PHY12 17PCD13	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04		03	60	40	100	
	17CED14	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour 04Hour	Instruction Practice	03	60	40	100	
5	17ELN15	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04		03	60	40	100	_
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	1
8	17CIV18	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01 Hour I			30	20	50	
				TOTAL		21 hours d: 08 hours	21	450	300	750	
				n Task (DUVSIC	S CDOUB						_
			SEMESTER B.E./	Basic Science	04		03	60	40	100	T
1	17MAT21	Engineering Mathematics -II	Physics	Basic Science	04		03	60	40	100	†
3		Engineering Physics Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04		03	60	40	100	T
4	17EME24	Elements of Mechanical Engineering	Me hanical Engineering	Mechanical Engineering	04		03	60	40	100	
5	17ELE25	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04		03	60	40	100	
6	17WSL26	Workshop Practice	ME, Auto, IP, 1EM, Mfg Engineering	Mechanical Engineering	02-Hour	Instruction Practical	03	60	40	100	
7	17PHYL27	Engineering Physics Laboratory	Physics	Basic Science		Instruction Practical	03	60	40	100	1
8	17ENG28	Language – English (Audit Course)	Humanities		01						\downarrow
_						21 hours					

(w.e.f. academic year 2017 - 18)

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

B.E./B.Tech

SL	Comme			#	Teachi	ng Hours /Week	Examination				Т
No	Course Code	Course	Course Title	Teaching Department	Theory	Practica <i>V</i> Drawing	Duration in hours	SEE Marks	CIE Marks	Total	JAI NO
1	17MAT31	Core Course	Engineering		······		Ã	SE	2		1
2	17XX32	Core Course	Mathematics-III		04	~~	03	60	40	100	7
3	17XX33	Core Course			04	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	03	- 75			_
4	17XX34	Core Course		54	04	*-		60	40	100	
5	17XX35	Core Course			04		03	60	40	100	7
6	17XX36	Foundation		-	04		03	60	40	100	I
		Course			03			- 60	40	100	1
7	17XXL37	Laboratory		-	01-Hour	Instruction	03	60	40	100	1
8	17XXL38	Laboratory		-	U2-Hour	Practical	03	60	40	100	t
					01-Hour	Instruction Practical	03			,,,,,	\downarrow
			Kannada/Constitution	SS	32 210th	1 Idelical	03	60	40	100	1
9	17KL/CPH39/49	Core Course	of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	1
				1	Theory:	4hom-					
			To be computed it	OTAL	Practica	1: 06 hours	25	510	340	850	_

- 1. Core Course: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme 2. Foundation Course: The courses based upon the content that leads to Knowledge enhancement.
- 3. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.
- (i) All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics I which is 04 contact hours per week.
- (ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Se candidates)

(w.e.f. academic year 2017 – 18)

Annexure -1 (page -4)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E./B.Tech

IV SEM	IESTER										-
					Teach	ing Hours /Week		Exami	nation		
Sl. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17MAT41	Core Course	Engineering Mathematics-IV		04	-	03	60	40	100	4
2	17XX42	Core Course			04		03	60	40	100	4
3	17XX43	Core Course			04	-	03	60	40	100	4
4	17XX44	Core Course	 		04		03	60	40	100	4
5	17XX45	Core Course			04		03	60	40	100	4
6	17XX46	Foundation Course			03	_	03	60	40	100	3
7	17XXLA7	Laboratory			1	Instruction Practical	03	60	40	100	2
8	17XXL48	Laboratory			1	Instruction Practical	03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
		-	T	OTAL		:24hours al: 06 hours	25	510	340	850	28

- 1. Core Course: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Foundation Course: The courses based upon the content that leads to Knowledge enhancement.
- 3. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.
- 4.Audit Course
- (i) All lateral entry students (except B. Sc candidates) have to register for Additional Mathematics II which is 04 contact hours per week.
- (ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

(w.e.f. academic year 2017 - 18)

Annexure -1 (page -5)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

B.E./B.Tech

V SE	MESTER			T	Teacl	ing Hours /Week		Exan	nination		_
SI. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total	Marks
1	17XX51	Core Course	Management and Entrepreneurship Excluding CSE, ISE and EV Programs. (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04	<u></u>	03	60	40	100	4
2	17XX52	Core Course	The state of the s		04		03	60	40	100	4
3	17XX53	Core Course			04	-	03	60	40	100	4
4	17XX54	Core Course			04		03	60	40	100	4
5	17XX55X	Professional Elective			03		03	60	40	100	3
6	17XX56Y	Open Elective			03		03	60	40	100	3
7	17XXL57	Laboratory			,	Instruction Practical	03	60	40	100	2
8	17XXL58	Laboratory			1	Instruction Practical	03	60	40	100	2
			T	OTAL		22hours al: 06 hours	24	480	320	800	26

Professional Elective		Offered by the D	Open Elective
Courses under Code 17XX55X	Course Title	Courses under Code 17XX56Y	Course Title
17XX55,1		17XX561	
17XX552		17XX562	
17XX553		17XX563	
17XX554		17XX564	

Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

- The candidate has pre requisite knowledge.
- The candidate has not studied during I and II year of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

- 1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective: Electives relevant to chosen specialization/ branch.
- 3. Open Elective: Electives from other technical and/ or emerging subject areas

(w.e.f. academic year 2017 – 18)

Annexure -1 (page -6)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

B.E./B.Tech

VI SE	MESTER			T	Taachi	ng Hours /Week		Exam	nation		
Sl. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17XX61	Core Course	Management and Entrepreneurship Excluding CSE, ISE and EV Programs. (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04		03	60	40	100	4
		Core Course	per the programme requirements.		04		03	60	40	100	4
2	17XX62				04		03	60	40	100	4
3	17XX63	Core Course		•	04		03	60	40	100	4
5	17XX64 17XX65X	Core Course Professional			03	-	03	60	40	100	3
		Elective			03		03	60	40	100	3
7	17XX66Y	Open Elective Laboratory		***************************************	01-Hour	Instruction Practical	03	60	40	100	2
8	17XXL68	Laboratory			01-Hour	Instruction Practical	03	60	40	100	2
			T	OTAL	Theory:	22hours 1: 06 hours	24	480	320	800	26

Profe	ssional Elective	Electives Offered by the D	Open Elective
Courses under Code 17XX65X	Course Title	Courses under Code 17XX66Y	Course Title
17XX651		17XX661	
17XX652		17XX662	
17XX653	The state of the second	17XX663	
17XX654	The state of the s	17XX664	

Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

- The candidate has pre requisite knowledge.
- The candidate has not studied during I and II year of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

- 1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective: Electives relevant to chosen specialization/ branch.
- 3. Open Elective: Electives from other technical and/ or emerging subject areas.

(w.e.f. academic year 2017 - 18)
Annexure -1 (page -7)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

B.E./B.Tech

					Teac	hing Hours /Week		Exa	mination		
Sl. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total	Marks
1	17XX71	Core Course			04		03	60	40	100	, ,
2	17XX72	Core Course			04		03	60	40	100	, 4
3	17XX73	Core Course			04		03	60	40	100	_
4	17XX74 X	Professional Elective			03	-	03	60	40	100	+ -
5	17XX75Y	Professional Elective			03		03	60	40	100	3
6	17XXL76	Laboratory				r Instruction r Practical	03	60	40	100	2
7	17XXL77	Laboratory			01-Hou	r Instruction r Practical	03	60	40	100	2
8	17XXP78	Core Course	Project Phase — I and Project seminar			03	1/24	4	100	100	2
	:			TOTAL	Theory Practice hours	: '8 hours at and Project: 09	21	420	380	800	24

	Electives				
essional Elective	Professional Elective				
Course Title	Courses under Code 17XX75Y	Course Title			
,	17XX751				
	17XX752				
and the second s	17XX753	- April 19 A			
	17XX754	and the state of t			
_		Course Title Courses under Code 17XX75Y 17XX751 17XX752 17XX753 17XX754			

^{1.} Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

^{3.} Project Phase – I and Project seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and seminar presentation skill.

(w.e.f. academic year 2017 – 18) Annexure -1 (page -8)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E./B.Tech

VIII SI	EMESTER		e in the second of the second		Teach	ing Hours /Week		Exami	nation		l
SI. No	Course Code	Course	Course Title	Teaching Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	Credits
1	17XX81	Core Course			04	<u></u>	03	60	40	100	4
				-	04	. -	03	60	40	100	4
2	17XX82	Core Course			04				40	100	3
3	17XX83X	Professional Elective			03		03	60	40		-
4	17XX84	Core Course	Internship/ Professional	V	Working of Inter	hours of the place	03	50	50	100	2
		<u> </u>	Practice	3,5		06	03	100	100	200	6
5	17XXP85	Core Course	Project work Phase -II	10 × 10 × 10 × 10 × 10	r comb	04			100	100	1
6	17XXS86	Core Course	Technical Seminar								
				TOTAL	Project : hours	11 hours and Seminar: 10	15	390	310	700	20

Professional Electives

Courses under Code 17XX83X	Course Title
17XX831	
17XX832	
17XX833	
17XX834	

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Electives relevant to chosen specialization/ branch.

3. Internship/ Professional Practice: To be completed between the V and VI semester vacation and/or VI and VII semester vacation period.





Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

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

Ref No. VTU/Aca/A12/2017-18/4 880

Phone: (0831) 2405468 : (0831) 2405467

Date: 1 4 SEP 2017

NOTIFICATION

Sub:

Regulations B,E/B.Tech & Scheme for 2017-18 admitted students and onwards

Ref:

1. Resolution No 2 of 133rd Extraordinary Executive Council Meeting, dated: 11sd

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 &

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

By order, Sd/-REGISTRAR

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.

The Special Officer, Academic Section, VTU, for information.
 Office Superintendent, Academic Section, VTU, for information.

Office Superintendent, Academic Section, VTU, for information.

7. CNC to upload.



Visvesvaraya Technological University

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

Prof. A S. Deshpande B.E. M.Tich., Ph.D. REGISTRAR

Ref VTU/BGM/Aca-OS/Gen-Cirs/2019-20/ 3013

NOTIFICATION

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

ate : - 1 AUG 2014

Sub: Regulations Governing the Degree of B.E./ B.Tech. under OBE and CBSE (Revised-2018) - reg...

Ref: Executive Council Resolution. No. 2.2.1 dt: 30th May, 2019

Pursuant to the aforesaid Executive Council Resolution, the "Regulations Governing the Degree of B.L./ B.Tech. under outcome Based Education and Choice Based Credit System - (Revised - 2018)" are hereby notified.

These Regulations are applicable for the following students:

- 1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXX18XXXXX)
- 2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN XXX19XX4XX)

You are hereby directed to bring the same to the notice of all the concerned and to follow them scrupulously.

The previous regulations in this regard (published on VTU website and printed in syllabus books are treated as null and void.

Encl: as above

REGISTRAR

To,
The of Principals of All Engineering Colleges under the ambit of VTU, Belagavi

Copy to:

- 1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
- 2. The Registrar (Evaluation), VTU, Belagavi
- 3. The Regional Directors (I/C) of all the Regional Offices of VTU for circulation
- 4. The Computer Network Centre, VTU, Belagavi- to upload on VTU website
- 5. PS to Registrar, VTU, Belagavi
- 6. All the concerned Special Officer and Case-workers of Academic Section, VTU, Belagavi



Visvesvaraya Technological University

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

Prof. A S. Deshpande RE. M.Tech., Ph.D. REGISTRAR

Ref VTU/BGM/Aca-OS/Gen-Cirs/2019-20/ 3013

NOTIFICATION

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

Date :

Sub: Regulations Governing the Degree of B.E./ B.Tech. under OBE and CBCs (Revised-2018) - reg...

Ref: Executive Council Resolution. No. 2.2.1 dt: 30th May, 2019

Pursuant to the aforesaid Executive Council Resolution, the "Regulations Governing the Degree of B.E./ B.Tech. under outcome Based Education and Choice Based Credit System - (Revised - 2018) " are hereby notified.

These Regulations are applicable for the following students:

- 1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXXX81XXXX
- 2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN

You are hereby directed to bring the same to the notice of all the concerned and to follow them scrupulously.

The previous regulations in this regard (published on VTU website and printed in syllabus books are treated as null and void.

Encl: as above

BY ORDER

REGISTRAR

0

The of Principals of All Engineering Colleges under the ambit of VTU, E

Copy to:

- 1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind
- 2. The Registrar (Evaluation), VTU, Belagavi
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- 4. The Computer Network Centre, VTU, Belagavi- to upload on VTU website
- 5. PS to Registrar, VTU, Belagavi

....

... al. ...

6. All the concerned Special Officer and Case-workers of Academic Section, VIU,

Definitions of Keywords

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

1) Programme: Is an educational Programme in a particular stream/ branch of Engineering/branch of specialization leading to award of the Degree. It involves events/activities, comprising of lectures/tutorials/laboratory work/field work, outreach activities/project work/vocational training/viva voce/ seminars/ internship/assignments/ presentations/ self-study etc., or a combination of some of these.

2) Branch: Means Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.

3) Semester: Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety). The odd and even semesters shall be as per the University academic calendar.

4) Academic Year: Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.

Course: Refers to usually referred to as 'papers' and is a component of a Programme. All Courses need not carry the same weight. 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 voce/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.

Credit: Refers to a unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork per week etc.

Audit Courses: Means the Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.

8) Choice Based Credit System (CBCS): Refers to customizing the Course work, through Core, Elective and soft skill Courses, to provide necessary support for the students to achieve their goals.

9) Course Registration: Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor etc.) in each semester for the Institution to maintain proper record.

- 10) Course Evaluation: Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. CIE and SEE to carry 40 % and 60 % respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.
- 11) Continuous Internal Evaluation (CIE): Refers to evaluation of students' achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the semester, with a weightage for the different components being fixed by the University.
- 12) Semester End Examinations (SEE): Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as University examination.

13) First Attempt: Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019

- 14) Credit Based System (CBS): Refers to quantification of Course work, after a student completes teaching learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.
- 15) Credit Representation: Refers to the Credit Values for different academic activities considered, as per the Table. I Credits for seminar, project phases, project viva—voce and internship shall be as specified in the Scheme of Teaching and Examinations.
- 16) Letter Grade:

	Table 1: C	redit 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	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
NOTE: Activities like	0	6	0:0:3	1 3

NOTE: Activities like, practical training, study tour and participation in Guest lectures not to carry Credits.

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.

- 17) Grading: Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in CIE and SEE. Grading is done by Absolute Grading [Refer: 18 OB 6.0]. The rubrics attached to letter grades are as follows: S Outstanding, A Excellent, B Very Good, C Good, D Above Average, E Average and F Fail.
- 18) Grade Point (GP): Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

).	etter Gra	ide and co	rrespondin 10 – Point	g Grade P	oints on a	typical	
Letter Grade	S	Λ	В	C	D	F.	F 6
Grade Point	10	09	08	07	06	04	00

- 19) Passing Standards: Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 18).
- 20) Credit Point: Is the product of GP and number of credits for a Course i.e., Credt points (CrP) = GP × Credits for the Course.
- 21) Semester Grade Point Average (SGPA): Refers to the measure of academic performance of student/s in a semester. [Refer: 18OB6.2]
- 22) Cumulative Grade Point Average (CGPA): Is a measure of overall cumulative performance of a student over all semesters. [Refer:180B6.2]
- 23) Grade Card: Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester end examination. The grade card will display the Programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) University: Visvesvaraya Technological University (VTU), Belagavi.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019

ſ	180B1.0	Title, Duration and Credits of the Programme of Study.
+	180B1.1	The Programme of study shall be called the degree of Bachelor of Engineering /Bachelor of
İ	100	Technology, abbreviated as B.E./B.Tech.
+	180B1.2	(a) The Programme to which students are admitted to First semester of B.E./B.Tech.
Ì	100	Programme shall be of four academic year duration divided into eight semesters. The lactoria
		Teaching and Learning days shall be for at least UI WORKING GAVS III & SCHROUSI.
		(L) The December to which students are admitted to third sellicity of District Control of the co
		The same and the learning and the same and t
		semesters. The actual Teaching and Learning days snall be at least 50 working
	,	semester. (c) The Programme (conducted during evening) to which students are admitted to third
1		
-		
ļ		for at least 90 working days in a semester. The deficit conducted on all Sundays (except conducted during evening on all working days, shall be compensated on all Sundays (except
		1 (1.1/1)
	180B1.3	The calendar of events in respect of the Programme of study shall be notified by the
	100210	University in advance.
	180B1.4	Maximum Duration for Programme Completion:
	,	(a) In case of students admitted to First semester of First year B.E./B.Tech. Programme
	1	(i) Students admitted to First semester B.E./B.Tech. shall complete the Programme within a period of eight academic years from the date of first admission, failing which they
		have to discontinue the Programme.
		(ii) A student who has not obtained eligibility to third semester even after three academic
		years from the date of first admission to first semester shall discontinue the Programme or
		get readmitted to first semester of first year B.E./B.Tech. with a revised University Seat
		Number having the same year of admission but serial number of the student starting with
	1	SIX hundred series (6XX).
	STATE OF THE PARTY	(iii) A student who has joined first year (to I or II semester) as a repeater and has not obtained eligibility to third semester even after three academic years from the date of
	N. Ilea	readmission to first year shall discontinue the Programme or get readmitted to first semester
	220	of first year B.E./B.Tech., subject to the provision of 180B1.4 (a)(i), with a revised
Á	A San	University Seat Number having the same year of admission but serial number of the student
	4.3	starting with SIX hundred series (6XX).
Y		(iv) A student, who has been readmitted to First year [as per 180B1.4 (a) (ii) and (iii)], does
•	7	not get eligibility to third semester even after two academic years from the date of
		readmission, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.
		(v) A student who gets admitted to III semester from I year in three or less than three years
		Islan complete the Programme, with or without break within a paried of sinks and a
		I years from the date of first admission, failing which they have to discontinue the December 1
		To sook it will additionally to the prevailing admission procedure at the admission
		(b) In case of lateral entry students admitted to Third semester of Second ways
	1	
		(i) Students admitted to second year third semester B.E./ B.Tech. shall complete the
		Programme within a period of six academic years from the date of first admission, failing which they have to discontinue the Programme.
	1	(ii) A student who has not obtained all the
		(ii) A student who has not obtained eligibility to fifth semester even after two academic years from the date of first admission to third semester shall discontinue the Programme or get readmitted to third semester of second year B.F./B. Tack with
		get readmitted to third semester of second semester shall discontinue the Programme or
		Number having the same year of admission but serial number of the student starting with
		(iii) A student who has the starting with
		(iii) A student who has joined second year (to III or iV semester) as a repeater and has not
	Ap	proved by VTU Executive Council: Resolution No. 2.2.1 in the 1400

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		Effective from the Academic Year 2018 – 19
	18OB1.5	obtained eligibility to fifth semester even after three academic years from the date of readmission to second year shall discontinue the Programme or get readmitted to third semester of second year B.E./B.Tech., subject to the provision of 18OB1.4 (b) (i), with a revised University Seat Number having the same year of admission but serial number of the student starting with SEVEN hundred series (7XX). (iv) A student, who has been readmitted to second year [as per 18OB1.4 (b) (ii) and (iii)], does not get eligibility to fifth semester even after two academic years from the date of readmission to second year, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time. (v) A student who gets admitted to V semester from II year in two or less than two years from the date of first admission, failing which they have to discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time. Prescribed Number of Credits for the Programme [to be read along with 18OB12.2]:
		(b) The number of credits to be completed by students admitted to first semester of B.E./B.Tech. Programme under lateral entry scheme shall be 135. (c) A student shall be eligible to get Undergraduate degree with Honours, if he/she earns additional 20 credits, as per VTU norms issued from time to time regarding the earning of B.E./B.Tech. Degree Programmes.]
	18OB1.6	(a.1) 1 hour Lecture (L) per week per semester = 1 Credit (a.2) 2 hours Tutorial (T) per week per semester = 1 Credit (a.3) 2 hours Practical/Laboratory/Drawing (P) per week per semester = 1 Credit (a.4) Four credit theory courses shall be designed for 50 hours of Teaching - Learning process. (a.5) Three credit theory courses shall be designed for 40 hours of Teaching - Learning
	18OB2.0	Eligibility for Admission to B.E./B.Tech. Programmes (As per the Government orders
9	180B2.1	(a) Day Engineering College (Eligibility: Candidates who have Passed Second PUC/ Twelfth standard) (i) Passed Second PUC/12 th standard/Equivalent examination with English as one of the Languages and obtained a minimum of 45 % of Marks in aggregate in Physics and Mathematics along with Chemistry/Bio-Technology/Biology/Electronics/Computer. 40 % for SC, ST, Category – 1, 2A, 2B, 3A and 3B category candidates of Karnataka only. (ii) 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.
		(b) Day Engineering College (Eligibility: Candidates who have Passed 3 year Diploma) (i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semester) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case of SC, ST and Backward Classes of Karnataka candidates. (ii) Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 - 19 (c) Evening Engineering College (Eligibility: Candidates who have Passed 3 year Diploma): (i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semesters) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case SC, ST and Backward Classes of Karnataka candidates. In addition to this a candidate after passing the diploma, must have minimum of Two years full-time work experience as on 1th September of the year of admission, in a registered firm/Company/Industry/Educational Institution /Government/Autonomous Organizations in the branch of Engineering/Technology, in which the candidates holds a diploma and in which admission is sought by him/her. Professional experience refers to the experience earned as an employee on regular basis in Government, Government Undertaking, Public Sector Undertaking, Corporation or Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or Government recognized Institutions as technical staff. 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 Government, Government Undertakings and Public Sector Undertakings. Note: In case where genuineness of the employment certificate is questionable, such candidates have to produce supportive documents specifying the registration details of the Industry/Company (e.g., SSI Registration) and or identity cards provided to them together with latest salary certificate and provident fund certificate. However, the employer has to fill up the NOC duly signed by the company authority. (d) Day Engineering College (Eligibility: Candidates who have Passed B.Sc Degree) Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject. With regard to the qualification earned from foreign countries, Equivalence certificate from 180B2.2 the University/ Association of Indian Universities is mandatory for admission to B.E./B.Tech. Programmes. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University Equivalence Committee shall be the final in establishing the eligibility of the student. 180B3.0 There shall be the following types of Courses: 180B3.1 (a) Humanities, Social Sciences and Management Courses (HSMC): These are mandatory for all disciplines. (b) Basic Sciences Courses (BSC): Physics, Chemistry and Mathematics. These are mandatory for all disciplines. (c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines. (d) Professional Core Courses (PCC) - Core: Are the professional Core Courses, relevant to the chosen specialization/ branch. The core Courses are to be compulsorily studied by students and are mandatory to complete them to fulfill the requirements of a Programme. (e) Professional Elective Courses (PEC): Are the professional Electives, relevant to the chosen specialization / branch and can be chosen from the pool of papers. It shall be supportive to the discipline providing extended scope/enabling an exposure to some other

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(f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/

(g) Project Work (PROJ): Mini project and Main Project. Carried out at the Institution or

discipline /domain and nurturing student proficiency skills.

elsewhere without affecting with the regular classwork.

or from emerging fields.

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

	Under Outcome Based Education (October 2018 – 19 Effective from the Academic Year 2018 – 19
	(h) Seminar: Deliverable at the Institution under the supervision of a Faculty. (h) Seminar: Deliverable at the Institution under the supervision of a Faculty. (h) Organization/IT company/Government
	(h) Seminar: Deliverable at the Institution under the supervision of a recompany/Government (i) Internship: Preferably at an industry/R and D organization/IT company/Government period as mentioned in
	organization or elsewhere of significant repute for a specific
	G) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade
	or credit, for students admitted to B.E./B. Iccn. Programme. A pass in case.
	La
18OB3.2	The minimum number of students registered to any Elective Course offered by the
	Departments shall be not less than ten.
i	However, the above condition shall not be applicable to Programmes having class strength
	of less than 10. In such cases, only one elective course shall be offered.
18OB3.3	A student shall exercise his option in respect of Elective Course/s and registered for the
	same at the beginning of the concerned semester. The student may be permitted to opt for a
	change of Blective Course/s within 15 days from the date of commencement of the semester
	as per the calendar of the University.
18OB3.4	Course Registration:
	In order to maintain proper academic record of each student at the Institution, every student
er egyptitistade	shall register for the Courses of a semester (Credits) under the supervision of a Faculty
	Advisor (also called Mentor, Counselor, etc.,) in each semester.
18OB4.0	Internship/Professional Practice
18OB4.1	Internship / Professional Practice
	The Internship shall be completed during the period specified in the Scheme of Teaching
	and Examinations.
	1) The internship shall preferably be at an industry/R and D organization/IT company/
	Government organization of significant repute for a specified period as mentioned in
	Scheme of Teaching and Examinations.
	2) The Department/college shall nominate staff member/s to facilitate, Guide and supervise
	students under internship.
	3) The students shall report progress of the internship to the Guide in regular intervals and
	seek his/her advice. The Guide shall maintain the progress record of the candidates
	undergoing internship.
ĺ	4) After the completion of Internship, students shall submit a report with completion
324	certificate and attendance certificate to the Head of the Department with the approval of
, weith	both internal and external Guides.
, Unit	5) There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of
ALTERNATION.	CIE marks shall be 50% of the maximum marks.
	6) The internal Guide shall be the internal examiner for the SEE.
Will. 3	7) The external Guide for Internship shall be the external examiner for SEE. Examination
HAT 1.58 PIT. BERT	for internship shall be conducted at the college and the date shall be fixed in consultation
₹	with the external Guide. The Examiners shall jointly award the SEE marks. [To be read along with 180B8.9 (f)]
l i	8) In case the external Guide expenses by
1	8) In case the external Guide expresses his inability to conduct the Examination, the
	Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the
	Department to conduct the Examination along with the internal Guide.
	9) Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the
1	Principal /Chief Superintendent of respective institute shall appoint a senior faculty of the Department to conduct the Examination.
	10) The students are permitted to company the beautiful to the students are permitted to company the beautiful to the students are permitted to company the beautiful to the students are permitted to company the students are students.
	10) The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any kind of financial and the control of the contro
	University will not provide any kind of financial assistance to any student for carrying out the Internship.
18OB 5.0	Technical Seminar and Project
180B 5.1	Technical Seminar: Technical Seminar is one of the head of passing.
	(i) Each candidate shall deliver Technical seminar as per the Scheme of Teaching and
	Examinations on the topic chosen from the relevant field.
	(ii) The Head of the Department shall make arrangements for the conduct of seminars
	mane ditaillements for the conduct of seminars

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					r of Engine nd Choice lemic Year	Dasea Cr		(CBCS)	
	through con	remed 19	iculty mem	bers of th	e Denarti	ment The	committee	constitute	d for the
	Larbone of the	iic iicau	or the Deb	anment.	Shall awa	ird the Ci	F marke f	or the cami	mar The
	Communice St	ian consi	st of two s	entor fac	cuity men	nhers of t	he Denarti	ment and the	ne senio
	THOSE acting a	s me Cha	urperson.	l o be rea	d along w	ith 180B	8.2 (e)]		
18OB 5.2	Project: Proj	ject (Min	i and Mair	ı) is one	of the hea	id of pass	ing.		_
	Mini Project	work an	d Main Pro	ject Wo	rk shall p	referably	be batch v	vise, the st	rength of
	each batch st (f), (g) 180B								
18OB 5.3	Examinations								
18OB 6.0	Computation				am riojec	- TOLK SI	idii bo coin		
8OB 6.1	(i) The Univ				na systen	whereir	the mark	s are con	verted to
GOD VIX	grades, and	every ser	mester resu	its shall	be declar	red in ter	ms of Sei	mester ura	oe rom
	Average (SG	PA) cons	sidering all	the cour	ses annea	red in tha	t Semester	LEUO EYRI	IIIIIauou
	including had	aklan aau	realclarraar	nanere (refers to	courses o	ther than t	ne current	SCHLOSIO
	courses that	have not	vet been co	moleted	and Cun	nulative (irade Poin	1 Average	(CGPA)
	TL - CCDA	.:11 1 1	1-4-d f		sorter BY	rent tor in	e misi sem	Calci.	
	(ii) The grad	ling syste	em with th	e letter i	grades an	d the ass	igned ran	go or man	
	absolute grad	ling syste	m shall be a			T	Above	Average	Fail
	Level	Outstand	ling Exce	llent 3	ery Good	Good	Average		
	Letter Grade	S	,	١	В	С	D	E	F
	Grade Points	10)	8	7	6 < 60	< 45	00
	Percentage of Marks Scored	≥ 90	1	90 30	< 80 ≥70	< 70 ≥60	≥ 45	≥40	< 40
	in a Course	(90 -10	0) (80	89)	(70 - 79)	(60- 69)	(45 - 59)	(40 - 44)	(0 - 39)
	(iii) A studer	nt obtaini	na Grade F	i- a Car	irce chall	he consid	lered fail	and is re	guired to
			ng Chauc i	m a Co	113¢ SHOTT	DD T U			
	1 -		CET	11/hatas	AF IDA IATI	Pr Oralie	sciulcu di	LIIC SIGO	IL COLUMN
	reappear in	the subsopearance	equent SEE shall be av	. Whatev warded. T	AF IDA IATI	Pr Oralie	sciulcu di	LIIC SIGO	IL COLUMN
	reappear in his /her reap	the subsopearance cated in t	equent SEE shall be av the grade ca	. Whatev warded. I rd.	AF IDA IATI	Pr Oralie	sciulcu di	LIIC SIGO	IL COLLE
18OB6.2	reappear in his /her reap shall be indic	the subsopearance cated in to of SG	equent SEE shall be avenue the grade carrier PA and Co	, Whatev warded. I rd. GPA	The numb	er graue er of atte	mpts take	n to clear	Course/
18OB6.2	reappear in his /her reap shall be indicated. Computation The following	the subsopearance cated in to on of SG	equent SEE shall be averaged the grade care PA and Consistent Shall	warded. Trd. GPA be used	to comp	er grade er of atte	emester C	n to clear Grade Poir	Course/
18OB6.2	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsopearance cated in to of SG ng express GPA) and	equent SEE shall be avenue ca PA and Co ssions shall Cumulati	, Whatev warded. T rd. GPA be used we Grade	to comp	er grade er of atte ute the S verage (C	emester C	n to clear Grade Poir spectively	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsopearance cated in to of SG ng express GPA) and	equent SEE shall be avenue ca PA and Co ssions shall Cumulati	, Whatev warded. T rd. GPA be used we Grade	to comp	er grade er of atte ute the S verage (C	emester C	n to clear Grade Poir spectively	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG in gexpress GPA) and course Cr	equent SEE shall be average ca PA and Community Community Seedits × Gr	warded. Trd. GPA be used ve Grade	to comp	er of atte	emester CCGPA) re	n to clear Grade Poir spectively that Seme	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG ang express GPA) and course Cr	equent SEE shall be averaged the grade ca PA and Constitution of the state of the s	warded. I rd. GPA be used ve Grade rade Politits I for	to comp Point A all the C	ute the S verage (C all the Co	emester CCGPA) recurses in that Ser	Grade Poir spectively that Sementer	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG and expressible and course Cr	equent SEE shall be averaged the grade ca PA and Consistent Sections shall Cumulative edits × Grade care credits × Grade care care care care care care care car	warded. I rd. GPA be used ve Grade rade Politits] for	to comp Point A nts] for all the C nts] for	ute the S verage (C all the Co ourses in	emester CCGPA) recurses in that Ser	Grade Poir spectively that Sementer	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG in gexpress GPA) and course Cr course Cr the course Cr	equent SEE shall be averaged the grade ca PA and Constitution of the second second the s	warded. Trd. GPA be used ve Grade Politis for grade Poier	to comp Point A nts] for all the C nts] for	ute the S verage (C all the Co ourses in all Cour	emester CCGPA) recurses in that Serves exclusive	Grade Poir spectively that Sementer	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG and express GPA) and course Cr	equent SEE shall be averaged the grade ca PA and Constitution of the state of the s	warded. Ind. GPA be used we Grade Politis I for grades Its I for grades	to compe Point A all the Counts for countil the countil the countil the countil counti	ute the S verage (C all the Co ourses in all Cour at Semes	emester CCGPA) recurses in that Serves exclusive adding	Grade Poir spectively that Sementer	Course/
	reappear in his /her reap shall be indiced. Computation The following Average (SC	the subsoppearance cated in to on of SG and express GPA) and course Cr	equent SEE shall be averaged the grade ca PA and Constitution of the second second the s	warded. Ind. GPA be used we Grade Politis I for grades Its I for grades	to compe Point A all the Counts for countil the countil the countil the countil counti	ute the S verage (C all the Co ourses in all Cour at Semes	emester CCGPA) recurses in that Serves exclusive adding	Grade Poir spectively that Sementer	Course/
	reappear in his /her reap shall be indiced as following the following Average (SC $SGPA = \frac{\sum [C]}{\sum [C]}$ The SGPA are the soft as following the followin	the subsoppearance cated in to on of SG and express GPA) and course Cr to to the course Cr	equent SEE shall be averaged the grade care PA and Cossions shall a Cumulative edits × Grant care Credits × Grant care with 1 course Credits with 1 course	warded. Tord. GPA be used ye Grade Points I for grades lits I for grades grades	to comp Point A nts] for all the C nuts] for all the cuntil the	ute the S verage (C all the Co ourses in all Cour at Semes	emester CCGPA) recurses in that Services exclusive uding	Frade Poir spectively that Sementer ading	Course/
	reappear in his /her reap shall be indiced as following the computation of the computati	the subsoppearance cated in to on of SG and express Cr \(\sum_{\subset} \subseteq \text{Course Cr} \(\subseteq \subseteq \text{Course Cr} \) Source Cr \(\text{till} \subseteq \text{Course Cr} \) The course Cr \(\text{till} \subseteq \text{Course Cr} \)	equent SEE shall be averaged the grade care PA and Consistent Sections shall be consistent to the constant of	warded. I rd. GPA be used ve Grade rade Polits I for rade Poi grades lits I for grades unded of	to compe Point A all the Counts for all Countil the co	ute the S verage (C all the Co ourses in all Cour at Semes at semes cimal poi	emester CCGPA) recurses in that Services exclusive reduing stervints and recursions and recursive reduing stervints and recursions and recursive reduing stervints and recursive reductions and reductions and reductions are reductions and reductions and reductions are reductions and reductions and reductions and reductions are reductions and reductions are reductions and reductions and reductions are reductions are reductions and reductions are reductions and reductions are reductions are reductions and reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reduction	Grade Poir spectively that Sementer ading	Course/
	reappear in his /her reap shall be indiced as following the computation of the computati	the subsoppearance cated in to on of SG and express Cr \(\sum_{\subset} \subseteq \text{Course Cr} \(\subseteq \subseteq \text{Course Cr} \) Source Cr \(\text{till} \subseteq \text{Course Cr} \) The course Cr \(\text{till} \subseteq \text{Course Cr} \)	equent SEE shall be averaged by the grade care PA and Consistency of the state of t	warded. I rd. GPA be used ve Grade rade Polits I for rade Poi grades lits I for grades unded of	to compe Point A all the Counts for all Countil the co	ute the S verage (C all the Co ourses in all Cour at Semes at semes cimal poi	emester CCGPA) recurses in that Services exclusive reduing stervints and recursions and recursive reduing stervints and recursions and recursive reduing stervints and recursive reductions and reductions and reductions are reductions and reductions and reductions are reductions and reductions and reductions and reductions are reductions and reductions are reductions and reductions and reductions are reductions are reductions and reductions are reductions and reductions are reductions are reductions and reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reduction	Grade Poir spectively that Sementer ading	Course/
	reappear in his /her reap shall be indiced as following the computation of the computati	the subsoppearance cated in to on of SG and express Cr \(\sum_{\subset} \subseteq \text{Course Cr} \(\subseteq \subseteq \text{Course Cr} \) Source Cr \(\text{till} \subseteq \text{Course Cr} \) The course Cr \(\text{till} \subseteq \text{Course Cr} \)	equent SEE shall be averaged the grade care PA and Consistent Sections shall be consistent to the constant of	warded. I rd. GPA be used ve Grade rade Polits I for rade Poi grades lits I for grades unded of	to compe Point A all the Counts for a until the all Countil the autil the countil the coun	ute the S verage (C all the Co ourses in all Cour at Semes at semes cimal poi	emester CCGPA) recurses in that Services exclusive reduing stervints and recursions and recursive reduing stervints and recursions and recursive reduing stervints and recursive reductions and reductions and reductions are reductions and reductions and reductions are reductions and reductions and reductions and reductions are reductions and reductions are reductions and reductions and reductions are reductions are reductions and reductions are reductions and reductions are reductions are reductions and reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reductions are reductions are reductions and reductions are reductions are reduction	Frade Poir spectively that Sementer adding	Course/
180B6.2	reappear in his /her reap shall be indiced. Computation The following Average (SC $SGPA = \frac{\sum [C]}{\sum [C]}$ The SGPA are cards. (a) SGPA and the same shall be indiced.	the subspectated in too of SG and expression of SG and course Cr to the co	equent SEE shall be averaged by the grade care PA and Consistency of the state of t	whatever warded. I rd. GPA be used we Grade Politis I for grades lits I for grades ounded on the control of the	to compe Point A all the Counts for a until the all Countil the autil the countil the coun	ute the S verage (C all the Co ourses in all Cour at Semes asses exclusions at semes cimal poi	emester CCGPA) recurses in that Services exclusive and recurses and recurses and recurse a	Frade Poir spectively that Sementer adding	course/

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May. 2019

Absent(F)

A

F

0

9

5x0=00

3x9 = 27

2x0=00

3:2:0=5

3:0:0 = 3

0:1:1 = 2

XX102

XX103

XX104

I

 $SGPA = \frac{11}{25}$ = 4.68

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

	Under Ou		d Education fective from						n (CBC\$)				
	Ī	XX105	4:1:0 = 5				6	5x6=30		****			
	I	XX106	5:0:0 = 5				4	5x4=20					
		Total				L	Total	117	+				
	(18*): Tot	(18*): Total credits of the semester excluding the credits of the courses under F grade.											
	Considere	Considered for the calculation of CGPA of the two consecutive semesters under											
	consideration.												
	II	XX107	3:1:1=5	C		Γ	7	5x7=35		,			
	II	XX108	4:0:0=4				8	4x8=32		201			
	II	XX109	3:0:0=3			-	6		<i>SGPA</i>	=			
	II	XX110	4:1:0=5		E			3x6=18	-	$SGPA = \frac{201}{32} = 6.28$			
	II	XX111	2:1:1=4				4	5x4=20	_				
	TI .	XX112	2:0:0=2			9		4x9=27					
	II	XX113	J:2:0=2		F		0	2x0=00		CGPA			
	I semeste	11111		2 B	8		8	2x8=16		7 + 201)			
	I YY102 200 d									18 + 30			
	I				D		6	5x6=30	4X				
		Total		2 C	C		7	2x7=14					
	(30*): To	(30*): Total credits o		7	<u> </u>		Total	201					
	(30*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.												
	considera	tion.		ii oi coi	.	ot tu	e two	consecutive	e semest	ers under			
	(b) CGPA	(b) CGPA Calculation of the Programme: An Illustrative Example											
/	Semester	I	II	III	I	V	V	VI	VII				
July 1	Credits of	the 20	20	24		24	25	24	20	VIII			
Appendix 40.	semester						- 3		20	18			
STAR SECTION	SGPA	4.6	6.28	9.20	6.	86	8.18	7.73	9.18	9.40			
E.M.	∑CrP	117		22	1	65	204	185	184				
S. Co.	CGP	$CGPA = \frac{[117 + 201 + 220 + 165 + 204 + 185 + 184 + 169]}{[1445]}$											
				175			-		$\frac{75}{75} = 8.7$	26			
18OB6.3	Grade Card: Based on the secured letter grades, grade points, SGPA and CGPA, a grade												
	card for each semester and a consolidated grade card indicating the performance in all												
-	semesters shall be issued.												
18OB7.0													
180B7.1	Formula f	Conversions of CGPA into Percentage of marks and Class Equivalence Formula for the conversion of CGPA into percentage of marks.											
ĺ	Percentage of marks secured, P = [CGPA Earned - 0.75] x 10												
	Illustration for a CGPA of 8.20:												
	$P = [CGPA Earned 8.20 - 0.75] \times 10$												
	= 74.5 9								Α,				
18OB7.2	Class Equivalence:												
1	Subsequent to the conversion of final CGPA, after successful completion of the Programme,												
	into percentage of marks (P), a graduating student is reckoned to have passed in												
	(ii) First C	(1) First Class with Distinction (FCD) if $P \ge 70\%$											
1	(ii) First Class (FC) if P≥60% but <70% and (iii) Second Class (SC) if P < 60%.												
180B8.0	Continuous Internal Evaluation, Semester End Evaluation and Minimum CIE and												
	SEE Mai	rks	. = . 41AGN	on, beines	fet.]	elia 1	CANINA(I)	nii siki V	rationin with	CIE AND			
18OB8.1	Continuous Internal Evaluation Marks and Minimum CIE Marks:												
	(a) For Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika												
	Kannada)	the maxim	ium CIE mi	arks shall b	e 10	0. Fo	r the awa	rd of credi	t, the min	imum CIE			
	marks to	be secured	shall be 40	% of the m	axin	านทา ท	narks i.e.	. 40 marks.					
,	(b) For Pi	roject work	Phase -1 ar	nd Technic	al se	minat	the max	imum CIE	marks sh	all be 100.			
	ror the	award of c	redit, the n	ninimum (CIE	marks	to be	secured sha	all be 50	% of the			
1		u marks t.e.	. DU MARKS										

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maximum marks i.e., 50 marks.

(c) For Practical/ Mini-project/Internship/Project work- Phase 2 the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 20 marks.

(d) For all other theory Courses of the Programme, the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.

(f) For Additional Mathematics I and II (to be completed by diploma lateral entry students) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 16 marks.

(g) For Engineering Graphics and Elements of Civil Engineering and Mechanics (of First Year Engineering and to be completed by B.Sc graduates under lateral entry) the maximum CIE marks shall be 40. To appear for the SEE, the minimum CIE marks to be secured shall be respectively 50 % and 40 % of the maximum marks i.e., 20 and 16 marks.

180B8.2

Continuous Internal Evaluation Procedure: [To be read along with 18 OB 8.1 and 8.3]

(a) Theory Courses:

(i) CIE Marks in each theory Course [including 'Technical English I and II', 'Constitution of India, Professional Ethics and Cyber Law', 'Environmental Studies', 'Additional Mathematics I and II'], shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 30 and that for assignments 10.

(ii) The CIE marks awarded for tests in the theory Courses shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a maximum of 50 marks and the final test marks shall be the average of three tests, proportionately reduced to a maximum of 30 marks.

(iii) The remaining 10 marks shall be awarded based on the evaluation of assignments/unit tests/written quizzes that support to cover both lower and higher order thinking skills as per Revised Bloom's Taxonomy.

(iv) Final CIE marks awarded shall be the sum of 180B8.2 (a) (ii) and (iii) for a maximum

of 40 marks.

(v) The candidates shall write the tests, assignments/unit-tests /written quizzes in Blue Books which shall be preserved by the Principal/ Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).

(b) Engineering Graphics/ Drawing/Field work Courses:

The CIE marks awarded for I year Engineering Graphics Course shall be based on

(i) Classwork for 24 marks (sketching and Computer Aided Engineering Drawing).

(ii) Two Tests conducted in the same pattern as that of SEE for 16 marks (The marks secured can be taken as best of the two tests).

(iii) Final CIE marks awarded for Engineering Graphics shall be the sum of 18OB8.2 (b) (i) and (ii) for a maximum of 40 marks.

(iv) The CIE marks awarded for higher semester Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio

(v) The CIE marks awarded for field work (like Surveying Practice) shall be based on the evaluation of the associated field work and one test in the ratio 60:40.

(c) Practical Courses:

The CIE marks awarded in case of Practical shall be based on the weekly evaluation of laboratory journals/ reports after the conduction of every experiment and one practical test in the ratio 60:40.

(d) Internship:

The CIE marks awarded for internship shall be based on the evaluation of Internship Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

(e) Technical Seminar:

The CIE marks awarded for Technical Seminar shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

(f) Mini - Project:

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 1461 meeting held on 304 May, 2019

		Effective from the Academic 1ear 2018 - 19
		The CIE marks awarded for Mini - Project, shall be based on the evaluation of Mini -
		Project Report, Project Presentation skill and Question and Answer session in the ratio
		50:25:25. The marks awarded for Mini - Project report shall be the same for all the batch
		mates.
		(g) Main Project Work:
	1	(i) Project Work Phase – 1
		The CIE marks awarded for project work phase -1 shall be based on the evaluation of
	}	project work phase -1 Report, Project Presentation skill and Question and Answer session in
	1	the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the
	1	Datch mates.
	1	(fi) Project Work Phase - 2
	1	The CIE marks awarded for project work phase -2 shall be based on the evaluation of
		project work phase 2 Paper Project work phase 2 snall be based on the evaluation of
		project work phase -2 Report, Project Presentation skill and Question and Answer session in
		the ratio 50:25:25. The marks awarded for Project report shall be the same for all the batch
		, mateur,
		(h) Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika
-		(i) CIE Marks in Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada
		F
	1	(ii) The CIE marks awarded for the tests shall be based on three tests generally conducted at
]	the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted at maximum of 25 marks and the finel CIF marks.
	1	maximum of 25 marks and the final CIE and semester. Each test shall be conducted for a
	1	maximum of 25 marks and the final CIE marks shall be the sum of the marks of all the three
	1	(HI) The many is
	1	(iii) The remaining 25 marks shall be awarded based on the evaluation of assignments/oral
	الأير .	discussions/ quizzes that supports communication skills.
-	A AMERICA	(iv) Final marks awarded shall be the sum of 180B8.2 (h) (ii) and (iii) for a maximum of
/	A AUG	100 marks.
Y .	A. 4.	(v) Students shall write the tests in Blue Books and complete the exercises/activates/
13	200	questions given in the University Kannada textbook. These shall be preserved by the
4		Principal/ Head of the Department for at least six months after the announcement of
	9 .	University results and shall be made available for verification at the direction of the
4		Registrar (Evaluation).
- 4	180B8.3	(a) The CIE marks in the case of Internship/Technical Seminar/Mini-Project and Project Work Phase 1 and 2 shall be awarded by a common state of the case of Internship/Technical Seminar/Mini-Project and Project
		Work Phase 1 and 2 shall be awarded by a committee consisting of the Head of the
	,	concerned Department and two senior faculty months of the Head of the
		concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
9		
		(b) A committee constituted by the Head of the Department of Humanities and Social
	′	
		********* \ \ \ \ \ \ \ \ \ \ \ \ \ \
		the control of two scinor faculty lifelibers of the Department and the control many
	10000	
	18OB8.4	(i) Students satisfying the attendance requirement but failing to secure the minimum
		they can appear for University examinations conducted in other Courses of the same
		semester and backlog Course/s if any.
		(ii) Students who have satisfied the attendance requirement but not the CIE requirements shall be permitted to register afresh and arrange of CVP.
		(iii) Each appearance to SEE to complete a course shall be treated as an attempt.
	18OB8.5	CIE marks of those students, who come under 10000 to the
		CIE marks of those students, who come under 180B8.4, shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.
	anonte de la companya	with other course CIE Marks.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146* meeting held on 30* May, 2019

180B8.6 (i) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Technical Seminar / Mini - Project/Project work -phase 1 and 2, shall be displayed on the notice board of the college much before the closure of the (ii) The institution shall enter the CIE marks of each semester in the format of the VTU online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal. Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned 18**OB8.7** Teacher(s) and in such cases the Head of the Department shall indicate the number of corrections on every sheet and attest it with his/her signature. CIE marks shall reach the University before the commencement of examination as per the 180B8.8 notification from the office of the Registrar (Evaluation) from time to time. After the submission of CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered. Semester End Examination Marks and Passing standards (a) University examination for all Courses under SEE shall be conducted for a maximum of 18OB8.9 100 Marks. The marks secured by the students for 100 marks shall be proportionately reduced to a maximum of 60 marks to add the same with the CIE marks for the award of (b) The University examinations for all the Programmes of study shall be conducted at the letter grade. end of each semester for all the eight semesters. (c) Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog course/s may face a situation where they may have (i) Two examinations scheduled at the same time of the day. (ii) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and (iii) Examinations on consecutive days. As changing the examination dates is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in second and third cases, the students shall manage the examinations as per their decision. (d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Cyber Law, and Environmental Studies shall be objective type [Multiple Choice Questions (MCQ)]. (e) For a pass in a theory Course/Drawing, students shall secure a minimum 35 % of the maximum marks prescribed for the University examination and in total 40 % of the Course maximum marks, i.e., the sum of the CIE and SEE marks prescribed for the Course. (f) For a pass in Practical/ Mini-project / Internship/Technical Seminar/Project work. students shall secure a minimum of 40 % of the Course maximum marks prescribed for the University examination (SEE). (g) Students who satisfy the conditions 18OB8.9 (e) and (f), and obtain any grade from S to E in a Course shall be considered to have passed that Course. (h) A student shall be declared fail if the candidate (h.a) Fails to satisfy the conditions 180B8.9 (g). (h.b) Absents himself / herself to the University examination. (h.c) Is held guilty of examination malpractice and for any other reasons and declared the performance of any Course/s null and void by a competent authority. (i) If a student secures F grade in any of the Course/s, he/she shall reappear for that Course/s during the subsequent SEE. The CIE marks awarded to the student at first attempt in the concerned Course/s shall be carried forward. Revised CIE marks is considered only in cases under the provision of 180B8.4 (ii).

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)

Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

Effective from the Academic Year 2018 – 19

	Students who pass a Course of a semester as per 180B8.9 (g) shall not be allowed to appear
18OB8.10	for any individual Course again, unless they opt for rejection of results of entire semester.
	However, students who have CGPA less than 5.00 at the end of academic Programme.
	subject to the provision 160B1.4, shall be allowed to appear for only SEE of Course/s to
	make up the deficiency in CGPA.
180B8.11	
10000.11	A student may, at his/her desire, can reject the total performance of a semester (including
	CIE marks) or reject only the result of his/her performance in University examinations of a
	semester. The rejection is permitted only once during the entire Programme of study.
18OB8.12	Students who desire to reject the SEE results of a semester shall reject the total performance
1	(the spective of the earned Course grades) in all the Courses of the semester either rejecting
	of tetaining the CIE marks. However, rejection of the performance of VIII semester project
	and not be permitted.
	(i) Students, who desire to reject the total SEE performance of an add
	(ii) If the rejection of SEE results excluding CIE marks is of odd semester, students shall be
	allowed to take admission to the immediate next even semester, students shall be
	1 V AT THE RECEIVED OF NEW PARTIES AND
	shall not be allowed to take admission to the next odd semester as per 180B10.3. In such
	cases, students shall take admission to the next odd semester as per 180B10.3. In such during the subsequent academic year/s, after obtaining the allocations scheme
	semester. They shall also be governed to the bottaining the eligibility to move to higher
	semester. They shall also be governed by 180B12.1, 12.2 and 1.4.
, i	(iv) Readmission to odd/even semester as per 180B8.12 (i) and (iii) shall not be considered Number, which was allotted earlier. The maximum duration of the same University Seat
C Miles	Number, which was allotted earlier. The maximum districts same University Seat
STAND STANDARDS	Number, which was allotted earlier. The maximum duration of the Programme (as per (v) Applications for rejection and approved to the state of the Programme (as per v).
11 1000	(v) Applications for rejection and approval to reappear for University examinations shall be
Mary B.	sent to the Registrar (Evaluation) through the Principal of the College within 30 days from
OF	the date of announcement of the results. Late submission of applications shall not be
4	(vi) Application for approved of
	(vi) Application for approval of readmission shall be sent to the Registrar through the
	SUDMISSION of application shall not be supplied to a modification of the results. I am
18OB8.13	Students who out for rejection of results from the students.
	Students who opt for rejection of results of University examination shall be eligible for the award of degree and not for the award of ranks and Honours Degree.
18OB9.0	Attendance Requirement
18OB9.1	Each semester shall be considered
	Each semester shall be considered as a unit for calculation of the attendance and the Candidates have to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice Chancelle.
1	of condonation of 10% of the
	recommendations of the Depoint of the Principal Column of the Specific l
	based on medical grounds named in the candidate is studying
	sports and cultural activities
	significant value. The supporting the supporting the support presentation are of the supporting the support of
10000	shall be submitted along with the recommendations
18OB9.2	(a) The basis for the calculation of
1	University by its calendar of events and as marie that be the period prescribed by the
1	TO THE CONTROL OF THE PROPERTY
	1 Case Of Tale adminutes 1
	III semester (lateral entry scheme) of day college/III semester (lateral entry scheme) of the date of admissions, approved by competent authority (DTE/VTU), to I semester/ Engineering Programme conducted during evening, the attendance shall be restricted.
	the date of admission to the Programme.

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

/ .	Effective from the Academic Year 2018 – 19
18OB9.3	The Course Instructor/ Mentor/College shall inform the students as well as their parents
18027	/guardians about the attendance status periodically. Students who are facing the shortage of
i	attendance shall be mentored to make up the shortage. Principals shall also notify every
	month, the list of candidates who are under short of attendance.
18OB9.4	A candidate, who does not satisfy the attendance requirement (in one or more Courses and
	including the Courses Additional Mathematics Land II) as mentioned in 1805 9.1 shall not
	he elicible to expens for the Comester End Evaminations of that semester and shall not be
	permitted to take admission to next higher semester. The candidate shall be required
	reneat that semester during the subsequent year.
18OB10.0	Vertical Progression (Promotion/ Eligibility to higher semesters)
18OB10.1	There shall be no restriction for promotion from an odd semester to the next even semester,
	provided the student has fulfilled the attendance requirement.
18OB10.2	Along with the reasons specified at 180B8.9 (h), a student shall be declared fail if he/she
	(i) Has not satisfied the CIE requirements of any Course/s. (ii) Has not registered for the SEE even after satisfying the attendance and CIE
	(ii) Has not registered for the SEE even after satisfying the
	requirements.
18OB10.3	(A) Vertical Progression in case of students admitted to First year: (a) Students having not more than four F grades in the two semesters of first year of the
	(a) Students having not more than four P grades in the
	Programme shall be eligible to move to second year. (a.1) Students having not more than four F grades in the four semesters of I and II year shall
	be eligible to move to HI year.
	I be prescribed credits Of I veal, allu liaving not more
	four F grades in the four semesters of II and III year shall be selected to Second year (lateral (B) Vertical Progression in case of Diploma students admitted to Second year (lateral
1	
	entry): (a) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II) in the two semesters of II year of the Programme shall be
	and the second s
S. S. R. L.	eligible to move to III Year. (a.1) Students having not more than four F grades (excluding the Fail or pass status of
- direct	Additional Mathematics I and II, if any) in the four semesters of II and III year shall be
A les les	eligible to move to IV year.
A Thiothy of	(b) The mandatory non – credit Courses Additional Mathematics I and II prescribed at III
CHAN. 55	and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of
S. Cara.	B.E./B.Tech. Programmes shall attend the classes during the respective semesters to satisfy
	attendance and CIE requirements and to appear for the University examinations. (b.1) In case, any student fails to satisfy the attendance requirement of the Courses
	Additional Mathematics I and II, he/she shall not be eligible to appear for the Semester End
	Examinations of that semester and shall not be permitted to take admission to next higher
	semester. The candidate shall be required to repeat that semester during the subsequent year.
İ	(b.2) Students who have satisfied the attendance requirement but not the CIE requirements
	of the Courses Additional Mathematics I and II shall be permitted to register afresh and
	appear for SEE after satisfying the CIE requirements in the same Course/s (with or without
	satisfying the attendance requirement) when offered during subsequent semester/s.
	(c) Completion of Additional Mathematics I and II shall be mandatory for the award of
	degree.
1	(C) Vertical Progression in case of B.Sc students admitted to Second year (lateral
1	entry): (a) Students having not more than four F grades (excluding the Fail or pass status of
	Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year
	Engineering Programme) in the two semesters of II year of the Programme shall be eligible
	to move to III Year.
	(a.1) Students having not more than four F grades (excluding the Fail or pass status of
	Engineering Graphics and Elements of Civil Engineering and Mechanics of First Vene I
	Engineering Programme, if any) in the four semesters of it and its year shall be aligible to 1
	move to IV year.

Approved by VTU Executive Council: Resolution No. 2.2 1 in its 146th meeting held on 30th May, 2019



Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 - 19

(b) The prescribed mandatory non - credit Courses Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme to lateral entry B.Sc. holders admitted to III semester of B.E./B.Tech. Programmes, shall attend the classes during the respective semesters to complete CIE and attendance requirements and to appear for the University examinations.

(b.1) In case, any student fails to satisfy the attendance requirement of the above said Courses, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.

(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the above said Courses, shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.

(c) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics shall be mandatory for the award of degree.

The Principal of each college shall make suitable arrangements in the timetable to facilitate the B.Sc students to attend the above mentioned courses to satisfy the CIE and attendance requirements and to appear for the University examinations.

18OB11.0

Award of Degree

18OB11.1

1. B.E./B.Tech. degree

- (a) Students shall be declared to have completed the Programme of B.E. / B.Tech. degree and is eligible for the award of degree, provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18OB1.5. [To be read along with 18 OB 12.1 and 12.2]
- (b) For the award of degree, a CGPA ≥ 5.00 at the end of Programme shall be mandatory. [To be read with 18OB11.2 (1)]
- (c) Completion of Additional Mathematics I and II, shall be mandatory for the award of degree to lateral entry diploma students.
- (d) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme shall be mandatory for the award of degree to lateral entry B.Sc graduates.
- (e)(i) Over and above the academic credits, every Day College regular student admitted to the 4 years Degree Programme and every student entering 4 years Degree Programme through lateral entry, shall earn 100 and 75 Activity Points respectively through AICTE Activity Point Programme for the award of degree. Students transferred from other Universities/ Autonomous colleges under VTU to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eight semester Grade Card.
- (ii) Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points before the commencement of 8th semester examinations, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

2. B.E./B. Tech. (Honours) degree

- (a) A student shall be declared to have completed the Programme of B.E. / B.Tech. degree and shall be eligible to get undergraduate BE/B. Tech degree with Honours, provided.
- (a.1) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18 OB1.5 (a) and (b).
- (a.2) Has earned additional 20 or more credits through University approved online Courses.
- (a.3) Satisfies the Regulations Governing the award of Honours at B.E./B.Tech. Degree Programmes.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019



180B11.2

- (1) Noncompliance of CGPA ≥5.00 at the end of the Programme
- (a) Students who have completed all the courses of the Programme but not having a CGPA ≥5.00 at the end of the Programme, shall not be eligible for the award of the degree.
- (b) In the cases of 180B11.2 (1) (a), students shall be permitted to appear again for SEE in course/s [other than Internship, Technical semi.tar, 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 maximum duration of the Programme to make up the CGPA equal to or greater than 5.00 for the award of the Degree.
- (c) In case, the students earn improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA <5.00, the students shall follow the procedure laid in 18OB11.2(1) (b).
- (d) In case, the students earn improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in the other reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA <5.00, the students shall follow the procedure laid in 180B11.2 (1) (b).
- (e) In case, the students earn improved grade/s in some courses and fail 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 students have failed. If it is ≥5.00, the students shall become eligible for the award of the degree. If CGPA <5.00, the students shall follow the procedure laid in 18OB11.2 (1) (b).
- (f) In case, the students fail (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 follow the procedure laid in 180B11.2 (1) (b).
- (g) Students shall obtain written permission from the Registrar (Evaluation) to reappear in SEE to make up the CGPA equal to or greater than 5.00.
- (2) Noncompliance of Mini-project
- (a) The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.
- (3) Noncompliance of Internship
- (a) All the students of B.E./B.Tech. shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credits shall be included with the credits of VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail in that Course and shall have to complete the same during subsequent University examinations after satisfy the internship requirements.

18OB12.0

Temporary Discontinuation/Break in the Programme/Change in Scheme of Study

18OB12.1

(a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the Programme during any semester intentionally, he/she shall be permitted to continue the Programme by registering to the same semester of the prevailing scheme. The candidate from that semester shall attend and complete all the remaining Course works of all the semesters, adhering to the regulations of the prevailing scheme and subject to the provision 180B1.4. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank / Honours

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May. 2019

Effective from the Academic Year 2018 - 19 (b) Candidates who take admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the Programme adhering to the regulations of the prevailing scheme, and shall complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes, A Grade card shall be issued to that effect. Additional Courses shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank/Honours Degree. (c) The credits to be earned by the candidates under 180B12.1 (a) and (b) and 180B14.1(b) and (c) shall be decided by the University along with the additional Course/s to be completed. 180B12.2 (i) The candidates who have temporarily discontinued the Programme of study or changed the scheme of study from one to another because of various reasons, or transferred from autonomous/other University to non-autonomous VTU constituent/affiliated college, shall be eligible for the award of degree provided the credits earned is equal to or greater than the credits decided by the University in the individual cases. (ii) In case, the credits earned is less than the credits decided by the University in the individual cases, after the completion of all the semesters of the Programme under the prevailing scheme, the candidate shall register for a Course or courses not studied earlier and make up the credits earned equal to or greater than the required for the award of degree. (iii) If the earned Programme credits are greater than the prescribed, the CGPA shall be proportionately reduced to the prescribed Programme credits. 180B13.0 Award of Prizes, Medals and Ranks For the award of Prizes and Medals, the conditions stipulated by the Donor shall be 180B13.1 considered subject to the provisions of the statutes framed by the University for such awards. 1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA 180B13.2 secured by the students from III to VIII semester shall be considered. (2) The additional credits earned for the award of Honours degree shall not have any bearing for the Rank declaration. (3) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided that the student, (a) (i) Has passed all the Courses of I to VIII semester in first attempt only in case of Candidates admitted to I year. (ii) Has passed all the Courses (including Additional Mathematics I and II in case Diploma students/ Engineering Graphics and Elements of Civil Engineering and Mechanics in case of B.Sc graduates under lateral entry) of III to VIII semester in first attempt only in case of Candidates admitted under lateral entry scheme. (b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc. (c) Has completed all the Courses/semesters of the same Scheme of Teaching and Examinations without any break/discontinuity. (d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college. (e) Has not been transferred from any autonomous institution affiliated to VTU or from any other University. (4) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 ranks in a Specialization. (5) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination. Illustration: (a) If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Programme, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.

Approved by VTU Executive Council: Resolution No. 2.2.1 in its 146th meeting held on 30th May, 2019

Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 – 19

(b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 9. (6) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place is greater than or equal to 5. Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tis shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the trank. 180B14.1 180B14.1 180B14.1 180B14.2 Transfer of students (a) (i) Transfer of students (a) (ii) Transfer of students in respective Colleges with the approval of the Registrar, VTU subject to the provision 180B10.3. (iii) The students seeking transfer as per 180B14.1 (a) (i) shall have to obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU. (iii) Complete the Programme subject to the provision 180B14. (b) Transfer of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the following conditions. (i) Transfer shall only be at the beginning of III and V semester B.E/B.Tech. Programme. (iii) Students who are seeking transfer must have passed in all the Courses of the previous semesters. (iv) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU. (v) Complete additional Course/s, shall not be considered for the Eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s, shall no
(6) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place is greater than or equal to 5. 180B13.3 Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank. 180B14.0 180B14.1 (a) (i) Transfer of students (a) (i) Transfer of students from one VTU affiliated non – autonomous college to another VTU non – autonomous affiliated college 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 with the approval of the Registrar, VTU subject to the provision 180B10.3. (ii) The students seeking transfer as per 180B14.1 (a) (i) shall have to obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU. (iii) Complete the Programme subject to the provision 180B1.4. (b) Transfer of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the following conditions. (i) Transfers of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the following conditions. (ii) Not transfer shall only be at the beginning of III and V semester B.E./B.Tech. Programme. (iii) Students who are seeking transfer must have passed in all the Courses of the previous semesters. (iv) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU. (v) Complete an Additional Course/s shall not be considered for the Eligibility criteria prescribed for promotion, calculation of SQPA and CGPA. However, a pass in the addi
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Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.) Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the Academic Year 2018 - 19

18OB14.3	The University may prescribe fee for administration purpose, 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).
18OB15.0	Applicability and Power to Modify
18OB15.1	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.
18OB15.2	 i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty. ii) Nothing in the foregoing may be construed as limiting the power of the University to
	amend, modify or repeal any or all of the above.



REGISTRAR Visvesvaraya Technological Uhiversity. BELAGAVI - 590 018.



Visvesvaraya Technological University

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

Dr. A S. Deshpande RE. M.Tech., Ph.D.,

REGISTRAR

Ref: VTU/BGM/OS-Aca/Cirs/2020-21/ 77

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

Sub: Schemes of study for the academic year 2020-21- reg..

Ref: Hon'ble Vice Chancellor's approval dated: 3-10-2020

With reference to the above, the following is informed:

Part I: Regular/ Readmission/ Repeater:

1. All readmissions and repeater admissions are subject to maximum duration as per their year of admission to programme.

2. Readmissions and repeater admissions will not claim any additional benefits.

3. They are governed by the applicable regulations of the University

		Academic yea	r 2020-21	
	80	heme offered	L LA STATE OF SLUUS	mission
B.E/B.Tech.		nlar	Repeatory	SEE: CIE
	Scheme	SEE: CIE	Scheme	CBCS 60: 40
	2018 scheme	CBCS 60: 40	2018 scheme	
I year	2010		III Sem : 2018 scheme	CBCS 60: 40
[] / II sem)	2018 scheme	CBCS 60: 40	(E.C. Res. No. 2.2.1 dt:	
II Year (III/ IV sem)			30-5-2019 (146th	
(111) 17 5555,	İ		meeting)	
		- According	IV Sem: The scheme	As applicable
			studied during 3rd	& Parallel
		Mark of the state	semester to be	Classes to be
		requirement of a light or	continued at IV sem.	conducted
			(2015/2017/2018)	As applicable
	2018 scheme	CBCS 60: 40	The scheme studied during 4th semester to be	8
III Year (V / VI sem)	2010		continued at V sem	Parallel
(4 / 41 8011)			(2015/ 2017/2018)	Classes to be
				conducted
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CBCS 60: 40	To be continued in the	CBCS 80: 20/
IV year	2017 scheme	CDOS our 15	scheme studied during	CBCS 60: 40
(VII/VIII sem)	0015 morallel	CBCS 80: 20	6th semester	Parallel
	2015 parallel	0200	(2015/ 2017)	Classes to be
				conducted
			2012 ettempte provided	
Batches	Regular 2011 a	and Lateral Enti	ry 2013 – attempts provided	•
under	2021			
extension		C 0010 cch	teme seeks admission to	5th and highe
2010 Scheme	If any studen	t of 2010 sch	duration), shall continue and from 2010 to 2015 schen	in 2010 scheme
	semesters (with	e has not shifte	ed from 2010 to 2015 schen	ne.



scheme	Credits for award of Degree for the students admitted to I Sem.	Credits for award of Degree for the students admitted under lateral entry to III Sem.	SEE/CIE
2015	200	152	CBCS 80: 20
2017	200	152	CBCS 60: 40
2018	175	135	CBCS 60: 40
2010	Absolute marks	Absolute marks	

	Academi	c year 2020-21
B.Arch.	Scheme offe	red and to be studied by students
	Regular	Repeaters/ readmission
T 222	Scheme	Scheme
I year (I / II sem)	2018 scheme	2018 scheme
II Year (III/ IV sem)	2018 scheme	III Sem: 2018 scheme (E.C. Res. No. 2.2.1 dt: 30-5-2019 (146th meeting)
III Year (V / VI sem)	2018 scheme	IV Sem: as per their admission (2015) as per scheme studied upto 4th semester
IV year (VII/VIII sem)	2015 scheme	as per scheme studied upto 6th semester
V Year (IX/ X sem)	2015 scheme	as per scheme studied upto 8th semester

	B.Arch.
scheme	Credits for award of Degree
2015	250
2018	260
Before 2015	Absolute marks

Part II: Admission of Year back / students (only for 2020-21):

- 1. The students are permitted to take admission to 3/5/7/9 semesters with any number of backlog subjects, provided
 - Must have attended classes up to 2nd semester to take admission to 3nd semester.
 - Must have attended classes up to 4th semester to take admission to 5th semester.
 - Must have attended classes up to 6th semester to take admission to 7th semester.
 - Must have attended classes up to 8th semester to take admission to 9th semester (B.Arch. only).

NOTE: The above facility is provided only for admission to higher semester during the academic year 2020-2021 and the students are required to gain eligibility to respective higher semesters while taking admission during the academic year 2021-2022.



2. The students who have taken admission to B.E./B.Tech. during the academic year 2017 -2018 and not become eligible to 3rd semester may seek readmission to 1st semester under 2018 scheme and such students are not permitted to take admission to 3rd semester during the academic year 2020-2021.

Part III: Grouping of students under B.E. Mechanical Engineering A and B subjects 2018 scheme:

- 1. The students are required to opt subjects from only one group i.e. either A or B at 3rd / 4th semester level.
- 2. Opting subjects from both A and B groups in a semester is not permitted.
- 3. If required, the students may be divided into two groups and each group may be given different group of subjects like how the Physics and Chemistry cycle subjects are offered during 1st year.

Part IV: Registering for Humanities Subjects:

If the student registers for 18KVK - Vyvaharika Kannada (Samskrutika Kannada) / Adalitha Kannada (Balake Kannada) in 3rd semester, he/she has to register for 18CPC- Constitution of India Professional Ethics and Cyber Law during 4th semester and vice-versa for 4th semester

Part V:Registration of students for higher semester:

- 1. Each and every student seeking admission to higher semester shall register with the University through its portal
- 2. A separate procedure for online registration will be notified shortly.
- 3. College shall maintain proper records of all above students.
- 4. In case if the students does not register for the semester, admission for the semester will be invalid.

BY ORDER.

REGISTRAR

The of Principals of All Engineering (Affiliated/ Constituent) Colleges under the (P3/10/2020) ambit of VTU, Belag.ivi

Copy to:

- 1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
- 2. The Registrar (Evaluation), VTU, Belagavi
- 3. The Regional Directors (I/C) of all the Regional Offices of VTU for circulation
- 4. The Director, Computer Network Centre, VTU, Belagavi- to upload on VTU website
- 5. PS to Registrar, VTU, Belagavi
- 6. All the concerned Special Officer and Case-workers of Academic Section, VTU, Belagavi



"ಆಫ್ಲನ ಸಂಗಮ", ಬೆಳಗಾಖ-೫೯೦೦೧ಲ, ಕರ್ನಾಟಕ, ಭಾರತ

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VIII Act. 1993) "Inuna Sangaroa" Belagavi : 5 9002 B, Karnataka, India Phone: (0831) 2498100, Yaxi (0831) 2403467, Website: vin.ac.iii

Dr. A. S. Deshpandea, E., M.Tech., Ph.D.

Registrar

Ref: VTU/BGM/BOS/A9/2021-22 / 73/931

Phone: (0831) 2498100

Fax: (0831) 2405467

Date: **E 3** DEC **2021**

CIRCULAR

Subject: 1st and 2nd -semester scheme(2021) of Teaching and Examinations regarding...

Reference: Hon'ble Vice-Chancellor's approval dated: 03.12.2021

The courses, 211DT19- Innovation and Design Thinking (offered in 1st semester both for chemistry and physics groups) and 21SFH29- Scientific Foundations of Health (offered in 2nd semester both for chemistry and physics group) are compulsory courses for the students admitting to 1st year B.E./B.Tech. programs.

A slight modification is made in the scheme of teaching and examinations to offer both the courses in 1st as well as 2nd semester for 50:50 strength of intake. The scheme is attached with this circular for reference and needful. Also, 3-8 semesters scheme template has been attached for stakeholder's information.

All the principals of Engineering Colleges are hereby informed to bring the content of this circular to the notice of the concerned. Please note: corrected scheme of programs is made available @ https://vtu.ac.in/en/b-e-scheme-syllabus/#menu05

Sd/-

Registrar

Encl: As mentioned above.

All the Principals of the Engineering Colleges under the ambit of VTU Belagavi.

Copy to:

- 1. The Hon'ble Vice-Chancellor through the secretary to VC for information
- 2. The Registrar(Evaluation) for information and needful
- 3. The Registrar's Office, VTU, Belagavi, for information.
- 4. The Special Officer, Academic Section, VTU Belagavi, for information.
- 5. The Director ITI SMU CNC for information and to upload the circular on the VTU web portal

REGISTRA

				(Effective from the academic year 2021 - 22) [Commo	7 - 1707	7	Com	non to	Common to all B.E./B.Tech. Programs	.Tech. P	rogran	[S]
	Semester	I Semester (Physics Group)				Teaching	ing		Examination	ation		
				ıţ		Hours /Week	+	+		-	-	s
Si.		Course and Course Code	Course Title	Teaching Departmen Paper Paper Betting Board(PSB	Тћеогу Гесшге	(sitotuT	Practical/ Drawing Self-Study	ai noitstu0	CIE Marks	SEE Marks	Total Marks	Credit
					1	T	P S	1				1
1	BSC	21MAT11	Calculus & Differential Equations	TD and PSB: Mathematics	2	2	-	03	3 50	20	100	3
7	BSC	21PHY12	Engineering Physics	TD and PSB: Physics	2	2	-	03	3 50	20	100	3
m	ESC	21ELE13	Basic Electrical Engineering	TD and PSB: E and E Engineering	2	2	-	03	20	20	100	3
4	ESC	21CIV14	Elements of Civil Engineering and Mechanics	TD and PSB: Civil Engineering	ဧ	;	;	03	20	20	100	3
r.	ESC	21EVN .15	Engineering Visualization	TD: ME, Auto, IP, IEM, Mfg. Engineering PSB: Mechanical Engg	2	:	2	03	20	20	100	က
9	BSC	21PHYL16	Engineering Physics Laboratory	TD and PSB: Physics	:	:	2	03	20	20	100	1
_	ESC	21ELEL17	Basic Electrical Engineering Laboratory	TD and PSB: E and E Engineering	1	1	2	. 03	20	20	100	н
8	HSMC	21EGH18	Communicative English	TD and PSB: Humanities	1	1	1	02	20	20	100	2
		211DT19/29	Innovation and Design Thinking									
6	AEC		OR	Any Engineering Department	1	;	:	01	1 20	20	100	T
		21SFH19/29	Scientific Foundations of Health									
1		And the state of t		TOTAL	13	07	07	24	450	450	900	20

L-Lecture, T - Tutorial, P. Practical/ Drawing, S - Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination	(a) Four-credit courses are to be designed for 50 hours of Teaching-Learning process.	(b) Three credit courses are to be designed for 40 hours of Teaching-Learning process.	(c) Two credit courses are to be designed for 25 hours of Teaching-Learning process.	(d) One-credit courses are to be designed for 15 hours of Teaching-Learning process.	AICTE Activity Points to be earned by students admitted to BE/B.Tech., /B.Plan day college programme (For more details refer to Chapter 6,AIC
L-Lecture, T - Tutorial, P- Practical/ Drawing, S - Self Study Compone	Credit definition:	1hour Lecture (L) per week = 1 Credit	2 hours Tutorial (T) per week = 1 Credit	2 hours Practical /Drawing (P) per week = 1 Credit	AICTE Activity Points to be earned by students admitted

CTE Activity Point Programme, Model Internship Guidelines):

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE ActivityPoint Programme. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be In case students fail to earn the prescribed activity Points, an Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card. considered for vertical progression.

(Presentation followed by question-answer session) shall be conducted during III semester and the prescribed credit shall be included in III semester. The internship shall be consideredas a head of passing and shall be considered for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements. (The faculty coordinator Summer Internship - I (21INT36): All the students admitted to engineering programmes shall have to undergo a mandatory summer internship of 03 weeks during the intervening vacation of II and III semesters. Summer Internship shall include Inter / Intra Institutional activities. A University Viva-voce examination or mentor has to monitor the students' internship progress and interact to guide them for the successful completion of the internship.)

E Se			(Effective and a company of the comp	(Effective from the academic year 2021 – 24)	(77 - 17				mmon t	o all B.E.	[Common to all B.E./B.Tech Programs]	Progr	[smi
ᅜ	mester	(For students w	Il Semester (For students who attended I semester under Frigsics of our)	(Teaching Hours /Week	ning /Week		m	Examination	uc		
	Code	Course and Course	Course Title	BnidəsəT TT)3rnəmTraq: And Dins Briddə2 Təqs ⁽ (B29) bTso8	Тћеогу Гессите	Ishour	Practical/ gnlwsrd	Self-Study	ni noitstu(ernoid	CIE Marks	SEE Marks	Fotal Marks	Credits .
				I	-	L	Ь	S	1			L	
H	BSC	21MAT21	Advanced Calculus and Numerical Methods	TD and PSB: Mathematics	2	2	1		03	20	20	100	3
2	BSC	21CHE22	Engineering Chemistry	TD and PSB: Chemistry	2	2	1 2	3	03	20	20	100	က
3	ESC	21PSP23	Problem-Solving through Programming	TD and PSB: Computer Science and Engineering	2	2	ŀ		03	20	50	100	co
4	ESC	21ELN24	Basic Electronics & Communication Engineering	TD: ECE/E and I/ TCPSB: ECE	2	2	ł	.	03	50	20	100	3
2	ESC	21EME25	Elements of Mechanical Engineering	TD: ME, Auto, IP,IEM, Mfg . Engineering PSB: Mechanical Engg	2	1	2		03	50	20	100	က
9	BSC	21CHEL26	Engineering Chemistry Laboratory	TD and PSB: Chemistry	:	1	2		03	20	20	100	1
7	ESC	21CPL27	Computer Programming Laboratory	TD and PSB: Computer Science and Engineering	:	1	2	1	.03	50	20	100	-
8	HSMC	21EGH28	Professional Writing Skills in English	TD and PSB: Humanities	1	П	Н		02	50	20	100	7
		21SFH19/29	Scientific Foundations of Health	,								***********************	
6	AEC	8	OR	Any Department	-	;	1		01	20	20	100	7
		21IDT19/29	Innovation and Design Thinking	TATOT	~	80	20		24	450	450	006	70

L-Lecture, T - Tutorial, P- Practical / Drawing, S - Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

Credit definition:	(a) Four credit courses are to be designed for 50 hours of Teaching - Learning process.
1hour Lecture (L) per week = 1 Credit	(b) Three credit courses are to be designed for 40 hours of Teaching – Learning process.
2 hours Tutorial (T) per week = 1 Credit	(c) Two credit courses are to be designed for 25 hours of Teaching – Learning process.
2 hours Practical /Drawing (P) per week = 1 Credit	(d) One credit courses are to be designed for 15 hours of Teaching - Learning process.

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In case students fail to earn the prescribed activity Points, an Eighth semester Grade Card shall be issued only affor earning the required activity

of passing and shall be considered for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements. (The faculty coordinator or mentor has to monitor the students' internship progress and Summer Internship - I (211NT36): All the students admitted to engineering programmes shall have to undergo a mandatory summer internship of 03 weeks during the intervening vacation of II and III semesters. Summer Internship shall include Inter / Intra Institutional activities. A University Viva-voce examination (Presentation followed by question-answer session) shall be conducted during III semester and the prescribed credit shall be included in III semester. The internship shall be consideredas a head Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card. interact to guide them for the successful completion of the internship.)

	1		Visvesvaraye Scheme of	vesvaraya Technological University, Belagavi Scheme of Teaching and Examinations 2021	sity, Be	lagav 021 it Svs	ni tem (C	BCS)					
			Outcome-Based Educati (Effective	Outcome-Based Education(UBE) and Child Sear 2021 – 22) (Effective from the academic year 2021 – 22)	2021 - 7	22	3	ошш	n to all I	[Common to all B.E./B.Tech. Programmes]	ech. Pr	ogram	nes]
I Semester (Chemistry Group)	Chemistry	<u>5</u>	nb)			Teaching	ning			Examination	lon		
						Hours /Week	Week						s
Course and	irse and rse Code		Course Title	Teaching Department (TD) and (TT) Setting Board(PSB)	Theory Lecture	lshour	Practical/ Brawing	Сец- 2µпф	ni noharu eruoh	CIE Marks	SEE Marks	zofraM latoT	Credit
					1	L	P	S	ı				
BSC 21MAT11	21MA	[11]	Calculus & Differential Equations	TD and PSB: Mathematics	2	2	1		03	20	20	100	33
BSC 21CHE12	21CH	E12	Engineering Chemistry	TD and PSB: Chemistry	2	2	:		03	50	20	100	m
ESC 21PSP13	21PS	P13	Problem-Solving through Programming	TD and PSB: Computer Science and Engineering	2	2	•		03	50	20	100	3
ESC 21ELN14	21EL	N14	Basic Electronics & Communication Engineering	TD: ECE/E and 1/ TCPSB: ECE	2	2	1		03	50	50	100	3
ESC 21EN	21EN	21EME15	Elements of Mechanical Engineering	TD: ME, Auto, IP,IEM, Mfg Engineering PSB: Mechanical Engg	2	1	2		03	50	20	100	3
BSC 21CH	21CH	21CHEL16	Engineering Chemistry Laboratory	TD and PSB: Chemistry			2	Ann in a contract of the second size	03	50	20	100	1
ESC 21C	210	21CF£17	Computer Programming Laboratory	TD and PSB: Computer Science and Engineering	1	}	2		03	20	20	100	1
HSMC 21E	21E	21EGH18	Communicative English	TD and PSB: Humanities	1	1	1		02	20	20	100	2
21ID	211D	21IDT19/29	Innovation and Design Thinking						A COMPANION OF THE PROPERTY OF				
AEC			OR	Any Engineering Department	H	1	}		01	20	20	100	1
21SFH19/29	21SFH1	67/6	Scientific Foundations of Health										
				TOTAL	13	60	07		24	450	450	906	20

JB03 26:06:2021/ EC 14:09:202

Note: BSC: Basic Science Course, ESC: Engineering Science Course, HSMC: Humanity and Social Science & Management Courses, AEC -Ability Enhancement Courses.

L-Lecture, T - Tutorial, P- Practical/ Drawing, S - Self Study Componen	- Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination
Credit definition:	(a) Four-credit courses are to be designed for 50 hours of Teaching-Learning process
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2 hours Tutorial (T) per week = 1 Credit	(c) The gradit contract to be declared for 26 hours of hours of the base in the contract of th
2 hours Practical / Drawing (P) nor wook = 1 Gradit	(c) I WO CI CUIT COULSES ALE CO DE MESIBILEO FOL EST HOURS OF LEACHING PLOCESS.
דווחווז ו ומרווימן / הומיוווק (י) איז ייייה – א טוייהונ	(d) One-credit courses are to be designed for 15 hours of Teaching-Learning process.

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			(Effective	Effective from the academic year 2021 = 22)	(17 - 77)		2	ommo	n to all	[Common to all B.E./B.Tech Programs]	ech Pro	grams	_
S	mester (For students who	II Semester (For students who attended 1st semester under Chemistry Group)	istry Group)	MANAGE OF STREET, STRE	Teaching	1		3	Examination	E		
	,			3		Hours /Week	Week	1				s	S
ಡ ಕಿ	Code	Course and Course Code	Course Title	gnidəsəT T) inaminsq: bns hittəS Təqs? (B29) b1so8	Тиеогу Гестиге	LsinotuT	Practical/ Drawing	Self-Study	ouration in export	CIE Marks	SEE Marks	Total Mark	Credi
					1	Ŀ	Д	S					+
,	BSC	21MAT21	Advanced Calculus and	TD and PSB: Mathematics	2	2	1	, 1	03	20	20	100	3
، ا	RSC	21PHY22	Engineering Physics	TD and PSB: Physics	2	2	-		03	20	20	100	3
7 .	ESC	21ELE23	Basic Electrical Engineering	TD and PSB: E and E	2	2	ł	:	03	20	20	. 100	33
2	ESC	21CIV24	Elements of Civil Engineering	TD and PSB: Civil	8	ŀ	ł		03	50	20	100	3
+	ESC	21EVN 25	Engineering Visualization	TD: ME, Auto, IP, IEM, Mfg. Engineering DSB: Mechanical Funge	2	1	2		03	20	20	100	3
. 2	RSC	21PHYL26	Engineering Physics Laboratory	TD and PSB: Physics		-	2		03	50	20	100	7
2 2	ESC	21E'EL27	Basic Electrical Engineering Laboratory	TD and PSB: E and E Engineering	-	ŀ	2		03	C)	20	100	
. 8	HSMC	21EGH28	Professional Writing Skills in English	TD and PSB: Humanities	1	н	-		02	20	20	100	2
		21SFH19/29	Scientific Foundations of Health										
6	AEC		OR	Any Department	H	!	ł		01	20	20	100	1
		21IDT19/29	Innovation and Design Thinking	TOTAL	4	6	20		24	450	450	006	20

L-Lecture, T - Tutorial, P- Practical/ Drawing, S - Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

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2 hours Described (Described (D) nor wood - 1 Credit	(c) the control and to be designed for the strong of the s
2 ilouis riacucai / Diawiiig (r) pei week = 1 Creuit	(d) One credit courses are to be designed for 15 hours of Teaching - I carning account

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