

INTERNAL TEST - I (B.E. 4th sem, April 2015)

Engineering Chemistry  
Part A

1. Explain the free radical mechanism of addition polymerization by using Vinyl chloride as a monomer. (10)

2. A polymer sample contains 80% styrene and 20% divinylbenzene. Calculate the number-average molecular weight of the polymer. (10)

3. Write the structural formula of following polymers: (10)

4. Write the free radical mechanism of addition polymerization. (10)

5. Write the mechanism of cationic polymerization of styrene. (10)

6. Write the mechanism of anionic polymerization of styrene. (10)

P.T.O.

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INTERNAL TEST - II (B.E. 4th sem, April 2015)

Engineering Chemistry  
Part B

1. Explain the free radical mechanism of addition polymerization by using Vinyl chloride as a monomer. (10)

2. A polymer sample contains 80% styrene and 20% divinylbenzene. Calculate the number-average molecular weight of the polymer. (10)

3. Write the structural formula of following polymers: (10)

4. Write the free radical mechanism of addition polymerization. (10)

5. Write the mechanism of cationic polymerization of styrene. (10)

6. Write the mechanism of anionic polymerization of styrene. (10)

P.T.O.

Internal Test I  
(B.E. 4th sem)

Engineering Chemistry  
Part A

1) a) Define the term addition polymerization. (2 marks)  
Write the propagation steps involved. (2 marks)  
Termination steps involved. (2 marks)

b) Calculating number average MW (2 marks)  
Calculating weight average MW (2 marks)

OR

2) a) Writing Synthesis of styrene (2 marks)  
b) Definition of Tg (2 marks)  
Any four factors (4 marks)

Part B

3) a) Writing Synthesis of PVC (2 marks)  
Any two properties and applications (2 marks)

b) Writing complete structure of polyethylene (2 marks)

(OR)

4) a) Any four properties (each 1 mark) (4 marks)  
b) Definition & term of Conductivity (2 marks)  
Mechanism of Conduction in polymer (2 marks)

Part C

5) a) i) Schematic diagram of benzaldehyde & labelling (2 marks)  
ii) principle & working of benzaldehyde (2 marks)  
iii) Calculation part (2 marks)

(OR)

6) a) writing given value formulae (1 mark)  
Formula of NCB & GIC (2 marks)  
Substitution & calculation (2 marks)

b) Schematic diagram of dihydropyridone (2 marks)  
Catalyst used (1 mark)  
Reaction involved (2 marks)

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Sl. No.	Name	Roll No.	Grade	Section	Branch	Year	Semester	Subject	Internal Test I	Internal Test II	Total	Percentage
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**NAVODAYA INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ACADEMIC YEAR 2019-2020  
THIRD SEMESTER  
INTERNAL ASSESSMENT TEST

**SEMESTER PROGRAMMING FOR PROFESSIONAL DEVELOPMENT**

Date: Answer any 3 questions from each section. Each question carries 10 marks.  
(33 questions 210 marks=35marks)

**PART A**

1. Explain different types of computer [5m]
2. What is software? Briefly explain software types [5m]

OR

2. Explain the structure of a program [5m]
3. Write a program to calculate area and perimeter of circle [10m]

**PART B**

3. What are input devices? Explain each briefly [5m]
3. What is a variable? Give the syntax and explain the rules for defining a variable [5m]

OR

4. Write a program to calculate roots of quadratic equation [5m]
4. Explain in brief statement with an example [5m]

**PART C**

7. Write a program to explain different types of operators [7m]
8. Evaluate the expression  
 $100/20+10-10/10+10/2-5+11-10/10$

OR

6. Write a program to find largest of three numbers using ternary operator [7m]
8. Explain if-else statement with syntax and example [5m]

\*\*\*\*\*ALL THE BEST\*\*\*\*\*

Flow chart scheme of evaluation

Explain different types of computer [5m]  
Computer can be broadly classified by their Speed & Computing power.

① Personal computer: Personal computers are used by individuals for personal or office use. They are used by a single person & are also called microcomputers.

• A personal computer can be defined as a small inexpensive computer for an single user. Personal computers are based on microprocessor technology that enables manufacturers to put entire CPU on one chip.

Personal computer are used for playing games of home, for business file used for accounting, word processing, database management etc

② Workstation: It is a computer used for engineer application (CAD/CAM), desktop publishing, software development & other such types of application. It require moderate amount of computing power and relatively high quality graphics capabilities.

Workstation come with large, high resolution graphics screen, large amount of RAM, multiple network support & optional use of external hard disk. Most workstations have mass storage device such as disk drive but special type of workstation called server workstation come without disk drive.

• Common use for workstation are Unix & windows.

PETS  
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SR. NO.	NAME	MKS					TOTAL	PERCENTAGE
		Q1	Q2	Q3	Q4	Q5		
1	ABHIRAM P K	10	10	10	10	10	50	100
2	ADARSH K	10	10	10	10	10	50	100
3	ADARSH K	10	10	10	10	10	50	100
4	ADARSH K	10	10	10	10	10	50	100
5	ADARSH K	10	10	10	10	10	50	100
6	ADARSH K	10	10	10	10	10	50	100
7	ADARSH K	10	10	10	10	10	50	100
8	ADARSH K	10	10	10	10	10	50	100
9	ADARSH K	10	10	10	10	10	50	100
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11	ADARSH K	10	10	10	10	10	50	100
12	ADARSH K	10	10	10	10	10	50	100
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49	ADARSH K	10	10	10	10	10	50	100
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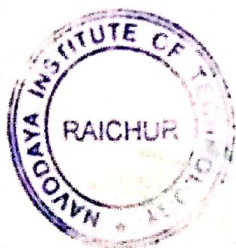


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	the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi or from the Principal of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



5

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



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



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



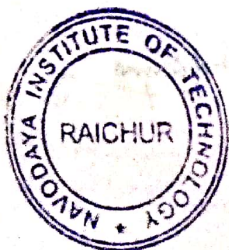
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	period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University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



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



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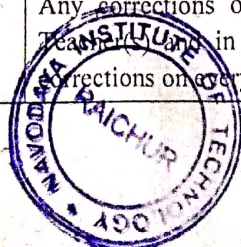


17OB 6.2 (continued)	Semester	I	II	III	IV	V	VI	VII	VIII
	Credits of the semester	24	24	27	27	24	24	24	26
	SGPA	7.00	8.50	9.20	6.86	8.18	7.73	8.68	9.40
<b>Thus CGPA</b> $= \frac{(24 \times 7.00 + 24 \times 8.50 + 27 \times 9.20 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.40)}{200} = 8.20$									
17OB 6.3	<b>Transcript Format:</b> Based on the secured letter grades, grade points, SGPA and CGPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters shall be issued.								
17OB 7.0	<b>Conversions of Grades into Percentage and Declaration of Class</b>								
17OB 7.1	Conversion Formula For The Conversion Of CGPA Into Percentage Is Given Below Percentage Of Marks Secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ <b>Illustration For A CGPA Of 8.20:</b> $P = [CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5 \%$								
17OB 7.2	<b>Class Declaration:</b> After the conversion of final CGPA into percentage of marks (P), a graduating student is declared to have passed in (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $< 70\%$ and (iii) Second Class (SC) if $P < 60\%$ .								
17OB8.0	<b>Continuous Internal Evaluation</b>								
17OB8.1	For each theory and practical paper, the CIE marks shall be 40. For Technical seminar, the CIE marks shall be 100. For Internship/ Professional Practice, the CIE marks shall be 50. For Project Phase -I and Project seminar and Project Phase -II, the CIE shall be 100 respectively.								
17OB8.2	CIE Marks in each theory Course shall be the sum of marks prescribed for test and assignment. 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. The candidates shall write the Internal Assessment Tests and Assignments/Unit tests/written Quizzes in Blue Books which shall be preserved by the Principal/ Head of the Department for at least three years after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).								



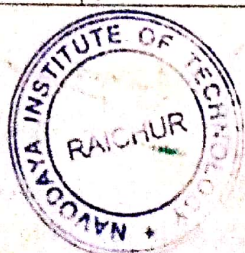
  
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 RAICHUR-584 103

17OB8.3	In the case of a Practical, the CIE marks shall be based on the laboratory journals/ records (30 Marks on 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.
17OB8.4	(i) The CIE marks for 1 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 can be taken as best of the two tests). (ii) The CIE marks for other Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.
17OB8.5	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 concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.
17OB8.6	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 50% of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks.
17OB8.7	i) 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 examination conducted by the University and they shall be considered as failed in that/those Course/s. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Courses if any. Students after satisfying the prescribed minimum CIE marks in the Course/s when offered during subsequent semester 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, he/she 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 the award of degree after satisfying the requirements prescribed for seminar during the subsequent semester/s. iii) The Course/s under 17OB8.6 (ii) and (iii), when repeated are considered as attempts.
17OB8.8	CIE marks of those students, who come under 17OB8.7, shall be sent separately to the Registrar (Evaluation).
17OB8.9	If a student remains absent for all the CIE tests conducted, the CIE Marks shall be marked as AB for the Courses against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
17OB8.10	Improvement of CIE marks shall not be allowed in a. Theory Courses and b. Laboratory/Workshop/Seminar/Internship/Project where the student has already secured the minimum required marks.
17OB8.11	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 stipulated date. Every page of the CIE marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
17OB8.12	Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher/Teachers. In such cases the Head of the Department shall indicate the number of corrections on every sheet and attest it with his/her signature.



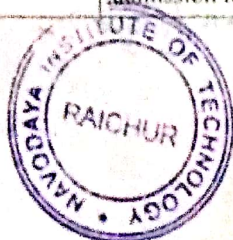
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17OB8.13	CIE marks shall reach the University before the commencement of examination as per the notification issued from the office of the Registrar (Evaluation) from time to time. After the submission of CIE marks to the University, any request under 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 17OB4.2, 5.1, 5.2, 8.6 and 8.7)
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 and Practical's) and times, subject to the provision of 17OB1.5, to make up CGPA equal 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 17OB9.2 (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 17OB8.7.
17OB 9.4	Students who pass a Course of a semester as per 17OB 9.1 and has earned CGPA equal to or 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 17OB 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 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.



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RAICHUR-584 103

17OB9.7	<p>A student, who decides to reject the total performance of a semester including CIE marks, has to take readmission for that semester.</p> <p>Application for approval of 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.</p> <p>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 17OB11.5) will be counted with reference to old USN.</p>
17OB9.8	<p>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.</p> <p>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.</p> <p>If the rejection of results of University examination is of odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of results of University examination is of even semester, then the student shall not be allowed to take admission to the next odd semester (as per 17OB11.2).</p>
17OB9.9	<p>Students who opt for rejection of results of University examination are eligible for the award of class and distinction, but are not eligible for the award of ranks.</p>
17OB9.10	<p>A student shall be declared to have completed the program of B.E. / B.Tech. degree, provided the student has undergone the stipulated Course work as per the Scheme of Teaching and Examination and has earned the prescribed number of credits as per the provision 17OB1.6, having CGPA <math>\geq 5</math> with none of the registered courses remaining with 'F' grade.</p>
17OB10.0	<p><b>Attendance Requirement</b></p>
17OB10.1	<p>Courses of each semester shall be treated as a separate unit for calculation of the attendance. The candidate has to put in a minimum attendance of 85% in each Course with a provision to condone 10% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University/State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The supporting documents for condoning the shortage of attendance are to be submitted along with the recommendations.</p>
17OB 10.2	<p>The datum for the calculation of attendance shall be the number of Teaching hours prescribed for a Course [50 hours for 04 credit Courses (theory), and 40 hours for 03 credit Courses (theory) counted from the date of commencement of the semester. In case of Laboratories, the number of classes (deemed as teaching hours) is equal to the number of experiments prescribed under main heading].</p> <p>In case of late admission, approved by competent authority (DTE/VTU), to I semester/III semester (lateral entry scheme)/ III semester (lateral entry scheme) of Engineering programme conducted during evening the attendance shall be reckoned from the date of admission to the programme.</p>



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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 17OB10.1 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	<b>Promotion and Eligibility</b>
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	<p>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.</p> <p><b>Illustrations:</b></p> <ol style="list-style-type: none"> <li>A student seeking eligibility to III semester should not have failed in more than 4<sup>o</sup> heads of passing of I and II semesters considered together.</li> <li>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.</li> <li>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.</li> </ol> <p><b>Lateral entry scheme:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>



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2018-19

18OB 7.0	<b>Conversions of CGPA into Percentage of marks and Class Equivalence</b>
18OB 7.1	<b>Conversion Formula for the conversion of CGPA into percentage is given below.</b> Percentage of marks secured, "P = [CGPA Earned - 0.75] × 10" Illustration for a CGPA of 8.20: $P = [CGPA \text{ Earned } 8.20 - 0.75] \times 10 = 74.5 \%$
18OB 7.2	<b>Class Equivalence:</b> 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 (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $< 70\%$ and (iii) Second Class (SC) if $P < 60\%$ .
18OB 8.0	<b>Continuous Internal Evaluation, Semester End Evaluation and minimum standards</b>
18OB 8.1	<b>Continuous Internal Evaluation Marks:</b> (a) Except for Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration), Technical seminar and Project work phase -1, the CIE marks for all credit Courses, shall be 40. (b) Minimum CIE marks for all theory Courses shall be 40 % of the marks prescribed for Continuous Internal Evaluation i.e., 16 marks. (c) Minimum CIE marks for Practical/ Mini-project / Internship/ Technical Seminar/ Project work – Phase 2 shall be 50 % of the maximum marks i.e., 20 marks. (d) The CIE marks for Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration), Technical seminar and Project work phase -1 shall be 100. (e) Minimum CIE marks for Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration) shall be 40 % of the marks prescribed for Continuous Internal Evaluation i.e., 40 marks. (f) Minimum CIE marks for Project work – Phase I and Technical seminar shall be 50 % of the maximum marks i.e., 50 marks. (g) Minimum CIE marks for Additional Mathematics I and II, and the courses (Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering) to be completed by B.Sc. graduates under lateral entry shall be 40 % of the marks prescribed for Continuous Internal Evaluation i.e., 16 marks.



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18OB 8.2

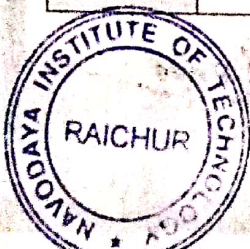
**Continuous Internal Evaluation Procedure:** [To be read along with 18OB 8.1 and 8.3]

**(a) Theory Courses :**

- (i) CIE Marks in each theory Course [including "Technical English I and II", "Constitution of India, Professional Ethics and Human Rights", "Environmental Studies", "Additional Mathematics I and II", and the courses (Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering) to be completed by B.Sc. graduates under lateral entry] 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 Course/s 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 Bloom's Revised Taxonomy and Course/programme outcomes.
- (iv) Final marks awarded shall be the sum of 18OB 8.2 (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) Drawing/Field work Courses :**

- (i) The CIE marks awarded for I year Engineering Graphics Course shall be based on
  - (a) Class work for 24 marks (sketching and Computer Aided Engineering Drawing).
  - (b) 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).
- (ii) 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 60:40.



16

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18OB 8.2  
(Continued)

(iii) 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 :**

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 :**

**(i) Project Work Phase - 1**

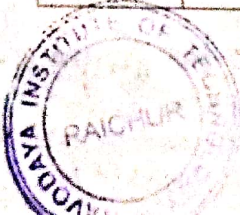
The CIE marks awarded for project work phase -1, shall be based on the evaluation of project work phase -1 Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

**(ii) Project Work Phase - 2**

The CIE marks awarded for project work phase -2, shall 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 the Project report shall be the same for all the batch mates.

**(h) Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration)**

(i) CIE Marks in Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannada for Administration) shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 75 and that for assignments be 25.

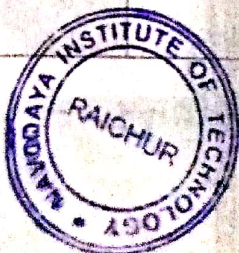


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RAICHUR-584 103



18OB 8.2 (Continued)	<p>(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 for a maximum of 25 marks and the final CIE marks shall be the sum of the marks of all the three tests.</p> <p>(iii) The remaining 25 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 Bloom's Revised Taxonomy and Course/programme outcomes.</p> <p>(iv) Final marks awarded shall be the sum of 18OB 8.2 (h) (ii) and (iii) for a maximum of 100 marks.</p> <p>(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).</p>
18OB 8.3	<p>(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 committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.</p> <p>(b) A committee constituted by the Head of the Department of Humanities and Social Science shall award the CIE marks for the Course Vyavaharika Kannada (Kannada for communication)/ Aadalitha Kannada (Kannada for Administration). The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson.</p>
18OB 8.4	<p>(i) Students failing to secure the minimum percentage of CIE marks of any Course/s shall not be eligible for the SEE conducted by the University and they shall be considered as fail in that Course /those Courses. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Course/s if any.</p> <p>(ii) Improvement in CIE marks shall not be allowed during the current semester.</p> <p>(iii) Students who have satisfied the attendance requirement but not the CIE requirements are 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.</p> <p>(iv) The Course/s when repeated are considered as attempts.</p>



18OB8.5	CIE marks of those students, who come under 18OB 8.4, shall be sent separately to the Registrar (Evaluation).
18OB8.6	<p>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 semester.</p> <p>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 shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.</p>
18OB8.7	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 corrections on every sheet and attest it with his/her signature.
18OB8.8	CIE 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 CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered.
18OB8.9	<p><b>Semester End Examination and Passing standards</b></p> <p>(a) For all credit Courses including “Additional Mathematics I and II”, and the courses (Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering) to be completed by B.Sc. graduates under lateral entry) the SEE marks shall be 60.</p> <p>(b) University examination for all Courses under SEE are conducted for a maximum of 100 Marks.</p> <p>(c) The University examination in all programmes of study shall be conducted at the end of each semester for all the eight semesters. The examinations shall not be considered as overlapping if at all a student appears for examinations conducted in the morning and afternoon session. Further, the examinations shall not also be considered as overlapping if the same student appears for the next days examinations.</p> <p>(d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Human Rights, and Environmental Studies shall be objective type [Multiple Choice Questions (MCQ)].</p> <p>(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 maximum marks prescribed for the Course including the CIE marks secured by the students (i.e., SEE + CIE).</p>



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<p>18OB 8.9 (Continued)</p>	<p>(f) For a pass in Practical/ Mini-project / Internship/Technical Seminar/Project work, students shall secure a minimum of 40 % of the maximum marks prescribed in the University examination.</p> <p>(g) Students who satisfy the conditions 18OB 8.9 (e) and (f), and obtain any grade from S to E shall be considered as passed.</p> <p>(h) A student shall be declared fail if the candidate</p> <p>(h.a) Fails to satisfy the conditions 18OB 8.9 (g).</p> <p>(h.b) Absents himself/herself to the University examination.</p> <p>(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.</p> <p>(i) If a student secures F grade in any of the Course/s, he/she shall reappear in 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 provisions of 18 OB 8.4(iii).</p>
<p>18OB 8.10</p>	<p>Students who pass a Course of a semester as per 18OB 8.9 (g) shall not be allowed to appear 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 an academic year shall be allowed to appear for Course/s to make up the deficiency in CGPA.</p>
<p>18OB 8.11</p>	<p>A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examination of a semester. The rejection is permitted only once during the entire Programme of study.</p>
<p>18OB 8.12</p>	<p>(a) The student who desires to reject the results of a semester shall</p> <ul style="list-style-type: none"> <li>o 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.</li> </ul> <p>A student, who desires to reject the total performance of a semester including CIE marks, has to take readmission for that semester.</p> <p>Application for approval of 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.</p> <p>(b) Readmission to any 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</p>



*[Signature]*  
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