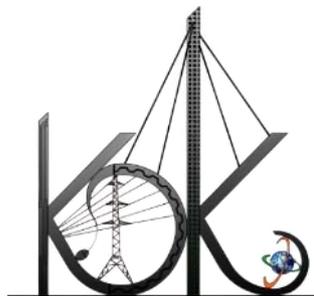


# **KDK College of Engineering, Nagpur- 440024**

An Autonomous Institute affiliated to Rashtrasant  
Tukadoji Maharaj Nagpur University, Nagpur

## **Regulations for UG/ PG Programs 2024-25**



Published by,

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# **KDK College of Engineering, Nagpur**

## **Regulations for UG/ PG 2024-25**

### **Contents**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Page No.</b>
<b>1</b>	Preamble	1
<b>2</b>	Institute's Vision & Mission	2
<b>3</b>	Short Title and Commencement	2
<b>4</b>	Abbreviations and Definitions	2
<b>5</b>	National Education Policy [NEP-2020] Framework	4
<b>6</b>	Outcome Based Education	5
<b>7</b>	Academic Programmes	6-10
	<b>7.1</b> Under graduate and Post Graduate Engineering programmes	6
	<b>7.2</b> Semester System	6
	<b>7.3</b> Provisions for Multiple Entry and Multiple Exit options	7
	<b>7.4</b> Types of B. Tech. Degree	9
	<b>7.5</b> Types of BCA Degree	10
<b>8</b>	Admission, Enrollment, Registration and ABC	10-15
	<b>8.1</b> Admissions	10
	<b>8.2</b> Eligibility for admission to the UG Bachelor's Degree with Double Minor/ Honors /Research	10
	<b>8.3</b> Enrollment	11
	<b>8.4</b> Registration	11
	<b>8.5</b> Change of Branch	12
	<b>8.6</b> Academic Bank of Credit (ABC)	12
	<b>8.7</b> Equivalence and Absorption of student	12
	<b>8.8</b> Re-Entry or Lateral Entry	14

<b>9</b>	Structure of the Programme	15-22
	<b>9.1</b> Duration of the Programmes	15
	<b>9.2</b> Medium of Instructions	17
	<b>9.3</b> Structure of Curriculum	17
	<b>9.4</b> Course Codes	21
<b>10</b>	Assessment and Evaluation	22-36
	<b>10.1</b> Examination Scheme	22
	<b>10.2</b> Theory Course	23
	<b>10.3</b> Practical Course	26
	<b>10.4</b> Internship	28
	<b>10.5</b> Project Course	28
	<b>10.6</b> Liberal Learning Courses/ Indian Knowledge System/ Ability Enhancement / Value Education Courses/ Comm. Engg. Project/ Field Project	29
	<b>10.7</b> Incentive Scheme	29
	<b>10.8</b> Paper Showing and Grievance Handling	35
	<b>10.9</b> Revaluation	35
	<b>10.10</b> Forego	35
<b>11</b>	Attendance, Absence, Leave Rules and Dismissal	36
<b>12</b>	Grading System	37-46
	<b>12.1</b> The Grading System	37
	<b>12.2</b> Guidelines for Award of Grades	41
	<b>12.3</b> Award of Grade	42
	<b>12.4</b> Calculation of SGPA and CGPA	42
	<b>12.5</b> Improvement of Grade/CGPA while undertaking a Programme	44
	<b>12.6</b> Grade Moderation Committee	45
	<b>12.7</b> Grade Card	45
	<b>12.8</b> Indication of Attempt on Grade Card	45

	<b>12.9</b> Minimum Requirements for the Award of the Degree	46
	<b>12.10</b> Award of Degree	46
	12.11 Award of Medals / Scholarships	46
<b>13</b>	Code of Conduct and Discipline	47
<b>14</b>	Act of Malpractices/ Unfair Means	48
<b>15</b>	Emergent Cases	50
<b>16</b>	Interpretation of Regulations	50
<b>17</b>	Power to modify	50
Annexure A		
Annexure B		
Annexure C		
Annexure D		
Annexure E		
Annexure F		

## **1. Preamble**

KDK College of Engineering & Technology, the flagship institute of KDK Group of Institutions was established in 1984 on a sprawling 5.5-acre campus in Nandanvan on Great Nag Road, is owned and managed by the Backward Class Youth Relief Committee (BCYRC) under the Chairmanship of Late Shri. Bhausahab Mulak, State Minister and Ex-Mayor of Nagpur. The College is approved by All India Council for Technical Education, New Delhi and Directorate of Technical Education, Government of Maharashtra. It is an autonomous institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU). The institute offers seven Undergraduate (B. Tech.) Engineering Programs: Artificial Intelligence and Data Science, Computer Science and Engineering, Mechanical Engineering, Electronics & Telecommunication Engineering, Electrical Engineering, Information Technology and Civil Engineering and one UG Program in Computer Application (BCA). It also offers one Post Graduate (M. Tech.) Engineering program in Structural Engineering and two Post Graduate programs: Masters in Business Administration (MBA) and Master of Computer Application (MCA). Institute also runs two Research Centers in Civil and Mechanical Engineering. Civil Engineering, Mechanical Engineering, Electrical Engineering, Electronics and Telecommunication Engineering and Computer Science and Engineering Departments are NBA accredited. The institute is accredited by National Assessment and Accreditation Council (NAAC), Bengaluru.

KDK College of Engineering has been granted 'Autonomous Status' by Rashtrasant Tukadoji Maharaj Nagpur University on recommendations of University Grants Commission w.e.f. academic year 2024-25. The purpose of Grant of Autonomy is to promote Academic Excellence. As per the directions dated 4<sup>th</sup> July 2023 from Department of Higher and Technical Education of Government of Maharashtra, National Education Policy-2020 is to be implemented and has provided sufficient guidelines for the structure, contents and base for curriculum development for undergraduate engineering education. Based on these, the UG and PG curriculum under Autonomy is designed and developed along with the invaluable contributions from renowned subject experts across the academic fraternity.

The cutting-edge technology, up-to-date syllabus content at par with current requirement of the industry, effective scheme of examination and gradation pattern are some of the salient features of academic autonomy. The curriculum offers broad knowledge, builds a thorough professional life long process of learning and exploring.

## 2. The Institute's Vision and Mission statements are:

### Vision

“Service to the Society Through Quality Technical Education”

### Mission

- Academic Excellence in Engineering and Technology Through Complete dedication to all round Growth of Students.
- Enable the Students to Develop Outstanding Professional with Technical Competence and Management Skills.
- Fulfill the Expectance of the Society and Industries with Ethical Standards for developing Sustainable Solutions

## 3. Short Title and Commencement

- a. Academic programs of this institution are governed by rules and regulations as approved by Academic Council, which is the highest academic body of the autonomous college.
- b. The regulations listed under this head are for all UG and PG programs under NEP which shall be effective from the batch admitted in 2024-25 and onwards and they are called “**Regulations for UG/ PG 2024-25**”.
- c. The regulations are subjected to amendments made by the Academic Council with the approval the Governing Body of the Institute from time to time with consideration of recommendations by the board of Studies as may be applicable.

## 4. Abbreviations and Definitions

Unless the context requires otherwise;

- (i) "Government" shall mean the Government of Maharashtra/ Government of India as may be applicable.
- (ii) "DTE" shall mean Directorate of Technical Education, Government of Maharashtra, Mumbai.

- (iii) "University" shall mean Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
- (iv) "Regulating Authority" shall mean any regulatory or controlling body for the Technical Education in India.
- (v) "UGC" shall mean University Grants Commission, Government of India New Delhi.
- (vi) "Institute" shall mean K. D. K. College of Engineering & Technology, Nandanvan, Nagpur
- (vii) "Governing Body (GB)" shall mean the Board of Management of the Institute constituted as per the University Grants Commission (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023 dated 3<sup>rd</sup> April 2023.
- (viii) "Principal" shall mean the Principal of the Institute.
- (ix) "Finance Committee" shall mean the Finance committee of the Institute constituted as per the guidelines of UGC for autonomous colleges
- (x) "BoS" shall mean the Board of Studies of the department, constituted as per the Guidelines of UGC for autonomous colleges.
- (xi) "Degree" shall mean the Bachelor of Technology (B.Tech.) or Master of Technology (M. Tech.) and other degrees of the Institute as may be approved by the Governing Body /University/UGC/Government.
- (xii) "Student" shall mean a student registered for UG/PG programme for studies leading to any degree course offered by the Institute and sought final admission to the degree programme
- (xiii) "Direct Second Year Student (DSY)" shall mean a student who is admitted directly to second year of the B.Tech. degree program after completion of the appropriate Diploma Programme and registered for undergraduate program for full time study leading to the respective B.Tech. degree
- (xiv) "Course" shall mean a curricular component identified by a designated number and title.
- (xv) "Programme" shall mean the stream in which the degree is awarded.

- (xvi) "Scheme of Examination" shall mean the scheme of teaching and examination for a programme of study as approved by the Academic Council.
- (xvii) "Course Coordinator" shall mean a faculty member who shall have full responsibility for the course, coordinating the work of other faculty member(s) involved in that course, including examinations and the award of grades.
- (xviii) "Grade Moderation Committee" shall mean the committee appointed by the Academic Council to moderate grades awarded by the examiner, if required.
- (xix) "SGPA" shall mean the Semester Grade Point Average.
- (xx) "CGPA" shall mean the Cumulative Grade Point Average.
- (xxi) "Academic Council" shall mean the Academic Council constituted as per the University Grants Commission (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023 dated 3<sup>rd</sup> April 2023.
- (xxii) "CoE" shall mean the Controller of Examinations appointed as per the Guidelines of UGC for autonomous colleges.
- (xxiii) "Guide" shall mean a person who is qualified to supervise a project/dissertation work of students and is approved by the Academic Council.
- (xxiv) "Competent Authority" shall mean the Governing Body /Academic Council of the Institute/ University/ Government/ UGC/ Regulating Authority as the case may be.
- (xxv) "Certificate Course" shall mean course of minimum thirty hours leading to award of certificate.

## **5. National Education Policy (NEP-2020) Framework**

The NEP 2020 Four Year Multidisciplinary Engineering Curriculum Framework offers:

- The opportunity for learners to choose the courses of their interest in all disciplines.
- The multiple entry and exit options with the award of UG certificate/ UG diploma/ or three-year degree depending upon the number of credits scored.

- The flexibility for learners to move from one institution have multi and/or interdisciplinary learning.
- One Semester Internship/ On Job Training (OJT).
- Provision of Vocational and Skill Enhancement Courses (VSEC), Indian Knowledge system (IKS), Community Engagement Project (CEP)/ Field Project (FP) in Major Discipline Degree.
- Horizontal and Vertical mobility with multiple entry and exit options at each Level.
- Provision of Skill-based Courses and internships for Exits at different Levels.
- Credits for Co-curricular & Extra-Curricular Activities as Curricular activities besides provision of credits for the Ability Enhancement Courses (ABC) & Value Education Courses (VEC).
- Interdisciplinary or Multidisciplinary education through Single and Double Minors and Open Electives (OE).
- The flexibility to switch to alternative modes of learning (offline, Online learning, and hybrid modes of learning).

## **6. Outcome Based Education**

- A learning outcomes-based curricular framework for all programmes of study shall be implemented. This necessitates:
  - an increased focus on the attainment by the students of the expected Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs)
  - designing teaching-learning experience that enable students to achieve the expected graduate attributes and defined POs/COs; and
  - designing learning assessment methods/procedures that help assess progress towards achievement by the students of the expected COs/POs and graduate attributes.
- Revised Blooms Taxonomy shall be followed for setting of Question papers.
- CO-PO/PSO Assessment tools and Guidelines for CO-PO/PSO evaluation shall be approved by the respective BoS.

## 7. Academic Programmes

7.1 The Institute offers the following Under Graduate and Post Graduate programs:

### Under graduate programs

Sr. No.	Department	Programme Title	Programme Code
1	Artificial Intelligence and Data Science	B.Tech. in Artificial Intelligence and Data Science	AD
2	Civil Engineering	B.Tech. in Civil Engineering	CV
3	Computer Science & Engineering	B.Tech. in Computer Science & Engineering	CS
4	Electrical Engineering	B.Tech. in Electrical Engineering	EE
5	Electronics & Telecommunication Engineering	B.Tech. in Electronics & Telecommunication Engineering	ET
6	Information Technology	B.Tech. in Information Technology	IT
7	Mechanical Engineering	B.Tech. in Mechanical Engineering	ME
8	Computer Application	Bachelor of Computer Applications	BC

### Post graduate programs

Sr. No.	Department	Programme Title	Programme Code
1	Civil Engineering	M. Tech. in Civil Engineering	PGST
2	Business Administration	Master in Business Administration	PGMB
3	Computer Application	Master of Computer Applications	PGMC

### 7.2 Semester System

- The academic programmes in the Institute shall be based on Choice- Based- Credit- Based (CBCS) Semester System; two semesters: ODD Semester (July- December) and EVEN Semester (January - June) in a year with winter and summer vacations.

- The curriculum may consist of credit courses under various categories, mandatory courses and audit courses as recommended by the respective Board of Studies.
- Each credit course shall have a certain number of credits assigned to it depending upon the academic load of the course, which would be assessed on the basis of weekly contact hours of theory lecture, tutorial, laboratory classes and field study if required.

### **7.3 Multiple Entry and Multiple Exit options**

#### **For B.Tech. program**

Students will have the flexibility to enter a program in odd semesters and exit a program after the successful completion of even semester as per their future career needs:

7.3.1 Students exiting the First-Year programme after securing minimum 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 8 credits in work-based vocational courses or internship/Apprenticeship offered during summer vacation in addition to 4 credits from skill-based courses earned during the first and second semester.

**OR** a student can continue the program in 2nd year.

7.3.2 Students exiting the Second Year Programme after securing minimum 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc) offered during summer vacation after the second year.

**OR** a student can continue the program in 3rd year.

7.3.3 Students exiting the 3-year UG program will be awarded B.Voc. in the relevant Discipline /Subject upon securing minimum 120 credits with additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc.) offered during summer vacation after the sixth semester.

**OR** a student can continue the program in 4th year.

7.3.4 Exit options shall be provided with Certification, Diploma and B. Vocational degrees to the students at the end of the second, fourth and sixth semester, respectively, in the four-year degree

programme. Students will receive a Bachelor's degree on successfully completing all eight semesters of the UG Programmes either at a stretch or with opted exits and re-entries. In addition to this, student will receive a Bachelor's degree with Minor/ Honors (Major) subject to earning of additional 18 credits.

7.3.5 The Four-year Bachelor's Engineering Degree Programme offered by Institute allows the students to experience the full range of holistic and multidisciplinary education in addition to a focus on the chosen major and minors as per their choices.

7.3.6 The Qualification Title for different levels under the Four-year Bachelor's Multidisciplinary Engineering UG Programme with multiple entry and multiple exit options are as given below:

<b>Levels</b>	<b>Qualification Title</b>	<b>Additional Credits to be earned</b>	<b>Credit</b>	<b>Semester</b>	<b>Year</b>
4.5	One Year UG Certificate in Major Discipline OR continue with Major	8 (Vocational/ Skill course and internship)	40	2	1
5.0	Two Years UG Diploma in Major Discipline OR continue with Major	8 (Vocational/ Skill course and internship)	80	4	2
5.5	Three Years UG Diploma in Major Discipline OR continue with Major	8 (Vocational/ Skill course and internship)	120	6	3
6.0	4-Years Bachelor's degree (B.Tech.) in Technology	Not required	160	8	4
6.0	4-Years Bachelor's degree (B.Tech.) in Technology - Minor	18	178	8	4
6.0	4-Years Bachelor's degree (B.Tech.) in Technology- Honors (Major)	18	178	8	4

## **7.4 Types of B. Tech. Degree**

The B. Tech. programme shall also be of two more types i.e. B. Tech. with Minor and Major (Honor).

### **7.4.1 B. Tech. Degree with a Minor/ Honors (Major)**

- i. A student who fulfills the requirements of the B.Tech. program of the discipline in which he/she is admitted, will be awarded with B.Tech. degree in that discipline. The flexibility is offered for students to successfully complete additional 18 credits by passing the courses through online mode from the specified platforms. Such students shall be awarded B. Tech Degree with Minor.
- ii. If a student is unable to earn additional 18 credits along with all the prescribed credits of the program in which he/she is admitted within the stipulated allowed duration of the original program he/she will not be awarded Minor/ Honors (Major) degree.

### **7.4.2 B.Tech. with Minor:**

- i. Minor scheme aims for additional knowledge in any other branch for enhancement of employability. During the span of Four years (Three Years in case of lateral entry) on completion of 18 additional credits in another discipline, the B.Tech. degree with "Minor Specialization in ----- [concerned discipline/subject] will be awarded to the student on completion of final semester.
- ii. A student having final CGPA of more than or equal to 7.5 in regular programme with no backlog in any semester, during the span of his/her degree will be eligible to get Degree with Minor.

### **7.4.3 B.Tech. with Honors (Major):**

- i. Honors (Major) scheme aims at growth of vertical knowledge of the student in his/her parent branch which may have advance knowledge or research orientation. During the span of four years (Three Years in case of lateral entry) on completion of 18 additional credits, through online mode (SWAYAM-NPTEL), in the same discipline, the B.Tech. degree with "Major in....." [Concerned Discipline] or Honors " will be awarded to the student on completion of Final semester.
- ii. A student having final CGPA of more than or equal to 7.5 and no backlog subjects, in any

semester, during the span of his/her degree programme will be eligible to get Degree with "Honors (Major) specialization in the same discipline, under this category.

#### **7.4.4 Types of BCA Degree**

Undergraduate/Three or Four years/6 or 8 Semesters with multiple entry and exit. The following option will be made available to the students joining BCA Research Program:

- **One year:** Under Graduate Certificate in Computer Applications
- **Two years:** Under Graduate Diploma in Computer Applications
- **Three years:** Bachelor of Computer Applications (BCA)
- **Four years:** Bachelor of Computer Applications with Honors: BCA (Honors) or Bachelor of Computer Applications Honors with Research: BCA (Honors with Research)

**Minimum Eligibility Criteria:** Minimum eligibility criteria for opting the course in the fourth year will be as follows:

**1. BCA (Honors with Research):** Minimum 7.5 CGPA in BCA Degree upto 6 Semester.

**2. For BCA (Honors):** BCA Degree

**Note:** The students who are eligible for BCA (Honors with Research) shall have choice to pursue either BCA (Honors) or BCA (Honors with Research).

## **8. Admission, Enrollment, Registration & ABC**

### **8.1 Admission**

The admissions for UG/ PG Programmes are done strictly on Merit basis in transparent manner in accordance with the rules and regulations of DTE Maharashtra State.

### **8.2 Eligibility for admission to UG Bachelor's Degree with Double Minor/ Honors /Research**

The Eligibility for admission to the UG Bachelor's Degree with Double Minor/ Honors /Research shall be as per UGC guidelines i.e., Minimum CGPA of 7 after second semester for UG Bachelor's Degree with Double Minor/ Honors and Minimum CGPA of 7 after sixth semester for UG Bachelor's Degree with Research.

### **8.3 Enrollment**

The students admitted to the programmes offered by the institution will be enrolled with Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) with adherence to its due procedures, soon after the admission, if he/she was not enrolled earlier. The candidature of the student will be provisional till his/her enrolment is accepted and a University Enrollment Number is assigned by the RTMNU.

### **8.4 Registration**

8.4.1 Every student admitted shall have his/ her unique Student ID.

8.4.2 The ID of a student shall consist of alpha-numerals.

For UG programs students,

#### **KYYUFPPSSSS**

Where, K: Indicates Institute code YY: Indicates year of admission, U: Undergraduate Program, F: First year Admission, PP: Indicates programme code, SSS: Indicates Student serial number.

For Direct second year Students,

#### **KYYUDPPSSSS**

Where, K: Indicates Institute code YY: Indicates year of admission, U: Undergraduate Program, D: Direct second year admission, PP: Indicates programme code, SSS: Indicates Student serial number.

For PG programs students,

#### **KYYPFPPSSSS**

Where, K: Indicates Institute code YY: Indicates year of admission, P: Postgraduate Program, F: First year Admission, AD: Indicates programme code, SSSS: Indicates Student serial number.

8.4.3 Registration at the beginning of each year, on the prescribed dates announced from time to time, by payment of the stipulated fees along with duly filled in admission form is compulsory for every student till he/she completes the Programme.

8.4.4 Registration, according to rules, should be carried out in the allotted duration. Late registration may be permitted only for valid reasons and on payment of a late

registration fee. Students having outstanding dues to the Institute shall be permitted to register only after clearing the dues.

- 8.4.5 For being eligible to register for (or take admission in) Semester III, student must have earned at least 50% of the total credits (rounded off to nearest lower integer) in first year (Semester I & II together).
- 8.4.6 For being eligible to register for (or take admission in) Semester V, student must have completed successfully all courses & earned all the credits offered in first year and earned at least 50% of the total credits (rounded off to nearest lower integer) in second year (Semester III & IV together).
- 8.4.7 For being eligible to register for (or take admission in) Semester VII, student must have completed successfully all courses including audit courses & earned all the credits offered in first & second year and earned at least 50% of the total credits (rounded off to nearest lower integer) in third year (Semester V & VI together).
- 8.4.8 The student admitted for regular UG course shall not undertake any full-time course of study in any university/ college/ institution. The student admitted for regular UG course shall not undertake any full-time employment during the period of the programme.

### **8.5 Change of Branch**

A student seeking change of branch at III semester must have earned all the credits of I and II semesters. The change of branch shall be affected as per the rules and norms approved by the Government/Competent authority from time to time.

### **8.6 Academic Bank of Credits**

It is compulsory for all students to get registered and enrolled on Academic Bank of Credits ABC, create ABC ID, and share their ABC ID with the Institute. Credits Earned by the student shall be reflected in the student's ABC account.

### **8.7 Equivalence and Absorption of student**

- 8.7.1 The students from university pattern, desirous of seeking admission to III, V and VII semester in autonomous pattern, has to fulfill the prevailing ATKT norms of

university, to become eligible for admission. However, such students have to clear backlog subjects (courses) if any, by appearing for the respective examinations of university. The norms of absorption/equivalence shall be decided by the Academic Council on the recommendations of the Equivalence Committee from time to time. The Equivalence Committee will be comprising of Dean Academics, Controller of Examination and Chairman of BoS for the program to which the student seeks admission. These students shall be absorbed by obtaining the permission from the competent authority and following all its guidelines.

- 8.7.2 A student having passed in particular course/subject heads of the existing programme at any semester level shall be exempted from such subject heads at any level (lower/higher) of the new 160 Credit programme. If any course/subject is named with a new nomenclature but is having similar contents it shall also be exempted. The respective Board of Studies shall prepare and notify the list of such subjects. Wherever a student is absorbed in the new 160 credit course with benefit of exemption in courses/subjects, in any semester, proportionate marks/grades shall be awarded in the concerned course/subject heads.
- 8.7.3 Wherever a new course/subject has been introduced in the new 160 Credit programme in any semester which was not to be found in the existing programmes the internal marks shall be awarded in proportion to the marks/grades earned by a student in the university/external examination in the concerned new course/subject head.
- 8.7.4 Student being absorbed in new 160 Credit Pattern shall be exempted from the subject/s which he/she has cleared in the existing semester pattern as per the absorption scheme provided by the concern BoS. However, the subject/s which he/she has not cleared in the old semester pattern and having no equivalent subject at any level of new 160 Credit Pattern shall not be considered during the absorption irrespective of the status of the result of that subject.
- 8.7.5 For the courses (compulsory/ elective/any other course) of all UG programmes which are closed by the respective department in a semester of a particular academic session, maximum four consecutive (as & when the examination is conducted) available attempts will be provided to pass these courses. Thereafter, the student shall be absorbed in new Autonomous scheme, as per equivalence scheme of respective BoS.

8.7.6 While switching from University Pattern to autonomous pattern the CGPA of such student shall be calculated from the SGPA obtained in previous semesters in the university pattern.

8.7.7 While switching from university pattern (where Credit Based Choice System is not available) to autonomous pattern the SGPA/ CGPA of such student shall be calculated as per following formula,

$$\text{SGPA/ CGPA} = (\text{Percent marks}/10)$$

For direct admission to second year by transfer from other Institute, the calculation of CGPA shall be governed by 12.4 in case the SGPA/CGPA is not mentioned in the Grade card. For direct admission to second year by lateral entry (after Diploma), the calculation of CGPA shall be done from III semester onwards.

## **8.8 Re-entry or Lateral Entry**

8.8.1 Students, opting for exits at any level, will have the option to re-enter the programme from where they had left off, in the same or in a different higher education institution within four years of exit and complete the degree programme within the stipulated maximum period of eight years from the date of admission to first year UG.

8.8.2 Re-entry at various levels for lateral entrants in academic programmes shall be based on the earned and valid credits as-deposited and accumulated in the Academic Bank of Credits (ABC) through Registered Higher & Technical Education Institutions (RHTEI) and proficiency test records.

8.8.3 Lateral entry into the programme of study leading to the UG Bachelor's Degree with single minor/ UG Bachelor's Degree with Double Minor/ Honors /Research will be based on the validation of prior learning outcomes achieved and subject to availability based on intake capacity.

8.8.4 Eligibility for admission to the UG Bachelor's Degree with Double Minor/ Honors /Honors with Research as per UGC guidelines: Minimum CGPA/CPI of 7.5 or minimum 75% after second semester for UG Bachelor's Degree with Double Minor/ Honors and Minimum CGPA/CPI of 7.5 or minimum 75% after sixth semester for UG Bachelor's Degree Honors with Research.

8.8.5 The instructions issued in this regard from the regulating authorities shall be applicable.

## **8.9 Withdrawal**

- 8.9.1 A student who wants to withdraw from a semester/year shall apply through the HOD to the Principal, on a prescribed form within one week from the end of the Test 1 and it will be recorded .in the registration record of the student. The student will be awarded a withdrawal grade 'W' at the end of the semester. ' '
- 8.9.2 In case a student is unable to attend classes for more than four weeks in a semester, he/she may apply to the Principal through HOD for withdrawal from the semester/year.
- 8.9.3 In case the period of absence on medical grounds is more than four weeks working days during the semester, a student may apply for withdrawal from the semester/year, if he/she so desires. But such an application must be made to the Principal through HOD, as early as possible and. latest before the beginning of End Semester Examination

## **9. Structure of the Programmes**

### **9.1 Duration of the Programmes:**

#### **For B.Tech. program**

The B.Tech. programme shall consist of 4 Years (Eight Semesters) as mentioned below:

- a) The **Bachelor of Technology (B. Tech.)**, I Semester Examination.
- b) The **Bachelor of Technology (B. Tech.)**, II Semester Examination.
- c) The **Bachelor of Technology (B. Tech.)**, III Semester Examination.
- d) The **Bachelor of Technology (B. Tech.)**, IV Semester Examination.
- e) The **Bachelor of Technology (B. Tech.)**, V Semester Examination.
- f) The **Bachelor of Technology (B. Tech.)**, VI Semester Examination.
- g) The **Bachelor of Technology (B. Tech.)**, VII Semester Examination.
- h) The **Bachelor of Technology (B. Tech.)**, VIII Semester Examination.

The maximum duration for completing the degree is eight years from the date of admission to first year.

#### **For B. C. A. program**

The B. C. A. programme shall consist of 4 Years (Eight Semesters) as mentioned below:

- a) The **Bachelor of Computer Application (B. C. A.)**, I Semester Examination.

- b) The **Bachelor of Computer Application (B. C. A.)**, II Semester Examination.
- c) The **Bachelor of Computer Application (B. C. A.)**, III Semester Examination.
- d) The **Bachelor of Computer Application (B. C. A.)**, IV Semester Examination.
- e) The **Bachelor of Computer Application (B. C. A.)**, V Semester Examination.
- f) The **Bachelor of Computer Application (B. C. A.)**, VI Semester Examination.

The maximum duration for completing the degree is eight years from the date of admission to first year.

#### **For M. Tech. program**

The M. Tech. programme shall consist of 4 Years (Four Semesters) as mentioned below:

- a) The **Master of Technology (M. Tech.)**, I Semester Examination.
- b) The **Master of Technology (M. Tech.)**, II Semester Examination.
- c) The **Master of Technology (M. Tech.)**, III Semester Examination.
- d) The **Master of Technology (M. Tech.)**, IV Semester Examination.

The maximum duration for completing the degree is five years from the date of admission to first year.

#### **For M.B.A. program**

The M. B. A. programme shall consist of 4 Years (Four Semesters) as mentioned below:

- a) The **Master of Business Administration (M.B.A.)**, I Semester Examination.
- b) The **Master of Business Administration (M.B.A.)**, II Semester Examination.
- c) The **Master of Business Administration (M.B.A.)**, III Semester Examination.
- d) The **Master of Business Administration (M.B.A.)**, IV Semester Examination.

The maximum duration for completing the degree is five years from the date of admission to first year.

#### **For M. C. A. program**

The M. C. A. programme shall consist of 4 Years (Four Semesters) as mentioned below:

- a) The **Master of Computer Application (M. C. A.)**, I Semester Examination.
- b) The **Master of Computer Application (M. C. A.)**, II Semester Examination.
- c) The **Master of Computer Application (M. C. A.)**, III Semester Examination.
- d) The **Master of Computer Application (M. C. A.)**, IV Semester Examination.

The maximum duration for completing the degree is five years from the date of admission to first year.

## 9.2 Medium of Instructions

The medium of instructions and examinations shall be English.

## 9.3 Structure of the Curriculum

9.3.1 Each UG programme will have a curriculum and course contents (syllabi) for the courses designed by the BOS and approved by Academic Council.

9.3.2 The curriculum of any UG/PG programme is designed to have credits of 160 for award of the Multidisciplinary Bachelor's degree based upon the Individual Programme. In case of admitted students through lateral entry in second year, credits shall be calculated from second year onwards and the minimum credit requirement for award of degree shall be 120 based upon the Individual Programme.

9.3.3 The curriculum of the B. Tech. programme shall have the following types of Courses:

Sr. No.	Course Type	Choice for Selection
1	Major (Core) Subject (90 Credits)	A student is required to select her/his 'MAJOR' program from amongst the choices provided in this scheme of examination before filling the examination form for 1st Semester. Change of major program shall not be permitted after the examination form is submitted. Major program comprises of Mandatory and Elective Course.
2	Compulsory Minor (MDM) (14 Credits)	The semester wise Multidisciplinary Minor courses are mentioned in the scheme of each program. These Minor subjects are from the different disciplines of the Engineering/Technology faculty or from different faculty altogether.  The credits of compulsory Multidisciplinary Minor courses shall be completed as mentioned in the scheme of respective program.
3	Open Elective Course (08 Credits)	A student is required to select an 'OPEN ELECTIVE' course from the (OE) 'Open Elective Basket' prepared faculty-wise by the BoS before filling the examination form for the semester concerned.

		<p>Such an 'OPEN ELECTIVE' course is to be chosen compulsorily from the faculty other than that of Major Discipline.</p> <p>A student is allowed to earn credits for 'OPEN ELECTIVE' course by successfully completing online courses of equivalent credits from SWAYAM/NPTEL learning platforms. However, this needs to be informed by student to the college before commencement of the semester and an application for transfer of credits is required to be made by student.</p>
4	Vocational Skill Enhancement Course (VSC) (04 Credits)	A student is required to successfully complete the 'VOCATIONAL SKILL COURSE' as mentioned in this scheme of examination. This course shall be corresponding to the 'MAJOR' program selected by a student.
5	Skill Enhancement Course (SEC) (04 Credits)	<p>A student is required to select a 'SKILL ENHANCEMENT COURSE' from the basket provided by the BoS for this purpose.</p> <p>A student is allowed to earn credits for 'SKILL ENHANCEMENT COURSE' by successfully completing online courses of equivalent credits from SWAYAM/NPTEL learning platforms or the courses from Sector Skill Council. However, this needs to be informed by student to the college before commencement of the semester and an application for transfer of credits is required to be made by student.</p>
6	Ability Enhancement Course (AEC) (04 Credits)	A student is required to undergo and successfully complete the 'ABILITY ENHANCEMENT COURSE' as mentioned in the scheme of examination of respective program.
7	Entrepreneurship/ Economics/ Management Courses (04 Credits)	A student is required to undergo and successfully complete the 'ENTREPRENEURSHIP/ ECONOMICS/ MANAGEMENT COURSES' as mentioned in the scheme of examination of respective program.
8	Indian Knowledge System Course (IKS) (02 Credits)	A student is required to undergo and successfully complete the 'INDIAN KNOWLEDGE SYSTEM COURSE' as mentioned in this scheme of examination.

9	Value Education Course (VEC) (04 Credits)	A student is required to undergo and successfully complete the 'VALUE EDUCATION COURSE' as mentioned in this scheme of examination.
10	Co-Curricular Course (CC) (04 Credits)	A student is required to select a 'Co-Curricular Course' from the basket prescribed by the university.  This course must be completed at the Higher Education Institute (HEI) where the student has taken admission and transfer of credit is not permissible for this type of course.
11	Field Project (FP)/ Internship/ Apprenticeship Community Engagement Project (CEP) / Research Project (RP)/ RM (22 Credits)	This course must be completed at the Higher Education Institute (HEI) where the student has taken admission and transfer of credit is not permissible for this type of course.  A student is required to undergo and successfully complete this course as mentioned in the scheme of examination under the guidance of supervisor/mentor assigned by the HEI. This course must be corresponding to the 'MAJOR' program.  This course must be completed at the HEI where the student has taken admission and transfer of credit is not permissible for this type of course.

The curriculum of the M. Tech. programme shall have the following types of Courses:

<b>Sr. No.</b>	<b>Course Type</b>	<b>Choice for Selection</b>
1	Major (Core) Subject (40 Credits)	A student is required to select her/his 'MAJOR' program from amongst the choices provided in this scheme of examination before filling the examination form for 1st Semester. Change of major program shall not be permitted after the examination form is submitted. Major program comprises of Mandatory and Elective Course.

10	Field Project (FP) / Internship/ Apprenticeship Community Engagement Project (CEP) / Research Project (RP)/ RM (40 Credits)	A student is required to undergo and successfully complete this course as mentioned in the scheme of examination under the guidance of supervisor/mentor assigned by the HEI. This course must be corresponding to the 'MAJOR' program.  This course must be completed at the HEI where the student has taken admission and transfer of credit is not permissible for this type of course.
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9.3.4 The Curriculum for award of degree in various UG & PG programmes is designed to have credits as under:

B. Tech.	: 160 credits
M. Tech.	: 80 credits
MBA	: 80 credits
MCA	: 80 credits
BCA	: 120 credits

9.3.5 The detail structure of the B.Tech. programmes shall be as given in Annexures A & B

**Annexure A:**

**B. Tech. I Semester Scheme of Examination.**

- e) Civil Engineering, I Semester Scheme of Examination.
- f) Mechanical Engineering, I Semester Scheme of Examination.
- g) Electrical Engineering, I Semester Scheme of Examination.
- h) Electronics & Telecommunication Engineering I Semester Scheme of Examination.
- i) Artificial Intelligence & Data Science I Semester Scheme of Examination.
- j) Information Technology I Semester Scheme of Examination.
- k) Computer Science and Engineering I Semester Scheme of Examination.

**Annexure B:**

**B. Tech. II Semester Scheme of Examination.**

- a) Civil Engineering, II Semester Scheme of Examination.
- b) Mechanical Engineering, II Semester Scheme of Examination.
- c) Electrical Engineering, II Semester Scheme of Examination.

- d) Electronics & Telecommunication Engineering II Semester Scheme of Examination.
- e) Artificial Intelligence & Data Science II Semester Scheme of Examination.
- f) Information Technology II Semester Scheme of Examination.
- g) Computer Science and Engineering II Semester Scheme of Examination.

**Annexure C:**

**M. Tech. I and II Semester Scheme of Examination.**

- a) Structural Engineering, I and II Semester Scheme of Examination.

**Annexure D:**

**MBA I and II Semester Scheme of Examination.**

- a) Master of Business Administration, I and II Semester Scheme of Examination.

**Annexure E:**

**MCA I and II Semester Scheme of Examination.**

- a) Master of Computer Applications, I and II Semester Scheme of Examination.

**Annexure F:**

**BCA I and II Semester Scheme of Examination.**

- a) Bachelor of Computer Applications, I and II Semester Scheme of Examination.

#### 9.4 Course Codes

Each course offered in B. Tech. shall have an alphanumeric course code.

<b><u>COURSE CODE</u></b>				
<b><u>SEM</u></b>	<b><u>B.Tech.</u></b>	<b><u>Branch</u></b>	<b><u>Subject S.N.</u></b>	<b><u>Theory/ Practical</u></b>
<b>1</b>	<b>B</b>	<b>CV</b>	<b>01</b>	<b>T</b>

Each course offered in B. C. A. shall have an alphanumeric course code.

<b><u>COURSE CODE</u></b>			
<b><u>SEM</u></b>	<b><u>BCA</u></b>	<b><u>Subject S.N.</u></b>	<b><u>Theory/ Practical</u></b>
<b>1</b>	<b>BC</b>	<b>01</b>	<b>T</b>

Each course offered in M. Tech. shall have an alphanumeric course code.

<b><u>COURSE CODE</u></b>				
<b><u>SEM</u></b>	<b><u>M. Tech.</u></b>	<b><u>Branch</u></b>	<b><u>Subject S.N.</u></b>	<b><u>Theory/ Practical</u></b>
<b>1</b>	<b>PG</b>	<b>ST</b>	<b>01</b>	<b>T</b>

Each course offered in MBA shall have an alphanumeric course code.

<b><u>COURSE CODE</u></b>			
<b><u>SEM</u></b>	<b><u>MBA</u></b>	<b><u>Subject S.N.</u></b>	<b><u>Theory/ Practical</u></b>
<b>1</b>	<b>MB</b>	<b>01</b>	<b>T</b>

Each course offered in M. C. A. shall have an alphanumeric course code.

<b><u>COURSE CODE</u></b>			
<b><u>SEM</u></b>	<b><u>MCA</u></b>	<b><u>Subject S.N.</u></b>	<b><u>Theory/ Practical</u></b>
<b>1</b>	<b>MC</b>	<b>01</b>	<b>T</b>

## **10. Assessment and Evaluation**

### **10.1 Examination Scheme**

In a semester, a student shall be evaluated for his/her academic performance in a theory and practical credit course through Continuous Evaluation, Mid Semester Examination (Mid Semester Evaluation) and End Semester Examination (ESE). All the examinations shall be conducted as per the syllabi prescribed by the respective BOS and approved by the Academic Council for UG/ PG programmes.

#### **For UG Programmes**

<b>Course</b>	<b>Examinations</b>	<b>Weightage</b>
Theory Course	Continuous Assessment (CA)	20 %
	Mid Semester Examination (MSE)	30 %
	End Semester Examination (ESE)	50 %

Practical Course	Continuous Assessment (CA)	50 %
	End Semester Examination (ESE)	50 %
Project Course	Continuous Assessment (CA)	50 %
	End Semester Examination (ESE)	50 %

### For PG Programmes

Course	Examinations	Weightage
Theory Course	Continuous Assessment (CA)	40 %
	End Semester Examination (ESE)	60 %
Practical Course	Continuous Assessment (CA)	50 %
	End Semester Examination (ESE)	50 %
Project Course	Continuous Assessment (CA)	50 %
	End Semester Examination (ESE)	50 %

### 10.2 Theory Course

The marks distribution discussed in this section is for Theory Courses comprising of 100 marks and Five Units. Passing marks for Theory courses shall be 40% of marks scored in (CA+MSE+ESE) with minimum marks of 10% in End Semester Examination.

#### 10.2.1 Continuous Evaluation:

Continuous Assessment for UG	20 %
Continuous Assessment for PG	40 %

For evaluation under Continuous Assessment (CA), Class performance, Course Activity and two Tests T1 and T2 shall be considered.

Continuous Assessment (CA)	Weightage
Class Performance/ Attendance	25 %
Course Activity	25 %
Test T1	25 %
Test T2	25 %

The Course Co-coordinators have flexibility to choose and consider any two distinct parameters against Course activity from Table which shall have weightage of 25% in the assessment against CA.

<b>Sr. No.</b>	<b>List of Course activity</b>
1	Quiz
2	Group Discussion
3	Assignment
4	Technical Poster
5	Power Point Presentation
6	Open Book Test
7	Industry Visit
8	Activity Based Learning – Problem/ Project Based Learning
9	Case Study of real-world problems
10	Any Other with Approval from HoD

### 10.2.2 Mid Sem Examination (MSE)

<b>Components</b>	<b>Syllabus</b>	<b>Weightage</b>
Mid Sem Examination MSE for UG & PG	50 %	30 %

### 10.2.3 End Semester Examination (ESE)

- For all the theory subjects, the end semester examination pattern will be as given below.

<b>Name of Examination</b>	<b>Syllabus</b>	<b>Weightage</b>
End Semester Examination for UG	100 % Syllabus	50 %
End Semester Examination for PG	100 % Syllabus	60 %

- End Semester examination shall be conducted as per the schedule in Academic Calendar. Detail time-table of End Semester Examinations shall be prepared and disseminated by the office of Controller of Examination. End Semester examination will be of three-hour duration (or as per the SoE). The duration and number of questions of examination may vary as per the need of the theory course.

- For Theory Courses with 50 marks, proportionate distribution of marks shall be carried out.
- For Theory Courses with no. of units not equal to five, proportionate distribution of no. of questions shall be carried out.

### 10.2.4 Question Paper Pattern

#### End Semester Examination of Max. Marks 50

Question No.		Nature of Question	CO	Marks
Q.1	(a)	Long Answer	CO1	5
	(b)	Long Answer		5
Or				
Q.2	(a)	Long Answer	CO1	5
	(b)	Long Answer		5
Q.3	(a)	Long Answer	CO2	5
	(b)	Long Answer		5
Or				
Q.4	(a)	Long Answer	CO2	5
	(b)	Long Answer		5
Q.5	(a)	Long Answer	CO3	5
	(b)	Long Answer		5
Or				
Q.6	(a)	Long Answer	CO3	5
	(b)	Long Answer		5
Q.7	(a)	Long Answer	CO4	5
	(b)	Long Answer		5
Or				
Q.8	(a)	Long Answer	CO4	5
	(b)	Long Answer		5
Q.9	(a)	Long Answer	CO5	5
	(b)	Long Answer		5
Or				
Q.10	(a)	Long Answer	CO5	5
	(b)	Long Answer		5

Note: The time duration of End Sem Exam (Theory) shall be of 2 hours for 2 credit courses and of 3 hours for 3 credit courses

### 10.2.5 Re-sit Examination for Theory Courses

- A student who remains absent for End Semester Examination, shall be awarded 'X' Grade in end semester examination and shall be eligible for resit examination.
- If a student secure 'F' grade shall be allowed to appear for the re-sit examination of corresponding end semester examination. The re-sit examination shall be conducted within one month from the declaration of results of the end semester examination. Re-sit examination shall be for end semester examination of that academic semester only.

### 10.3 Practical Course

A student shall be evaluated for his / her academic performance in a practical course on the basis of continuous evaluation & end semester practical examination. Passing marks for Practical courses shall be 50% of marks scored in (CA+ESE) with 10% minimum marks in End Semester Examination.

The syllabus of a practical shall specify the list of practical / experiments to be done in a semester which may include some open-ended experiments.

#### 10.3.1 Continuous Evaluation

Continuous assessment covering 50% evaluation on the basis of his/ her performance in each practical, journal completion, internal examination and viva-voce.

#### For a practical course of 25 Marks:

Continuous Assessment	Marks	Total Marks
Class Performance	8	25
Journal	8	
Written Examination/ Performance	5	
Viva-Voce	4	

**For a practical course of 50 Marks:**

<b>Continuous Evaluation</b>	<b>Marks</b>	<b>Total Marks</b>
Class Performance	16	<b>50</b>
Journal	16	
Written Examination/ Performance	10	
Viva-Voce	8	

### **10.3.2 End Semester Examination**

**For a practical course of 25 Marks:**

<b>End Semester Examination</b>	<b>Marks</b>	<b>Total Marks</b>
End Semester Practical Examination	15	<b>25</b>
Viva-Voce	10	

**For a practical course of 50 Marks:**

<b>End Semester Examination</b>	<b>Marks</b>	<b>Total Marks</b>
End Semester Practical Examination	30	<b>50</b>
Viva-Voce	20	

In case of performance oriented practical, the evaluation shall be done on the basis of performance in practical examination and viva-voce. Mode of examination for non-performance type of practical shall be declared by the course coordinator in the beginning of the session. Type of practical course i.e., performance type or non-performance type shall be decided by the respective BoS.

### **10.3.3 Re-sit Examination for Practical Courses**

- A student who remains absent for End Semester examination of Practical/ Project Courses and awarded with '**AB**' Grade in end semester examination shall be eligible for resit examination.
- If a student secure '**F**' grade in Practical/ Project Courses, he/she shall be allowed to

appear for the re-sit examination of corresponding end semester examination. The re-sit examination shall be conducted within one month from the declaration of results of the end semester examination. Re-sit examination shall be for end semester examination of that academic semester only.

#### **10.4 Internship**

##### **One Semester Internship/ On Job Training:**

The one semester Internship/ On Job Training shall be offered as per scheme of examination.

#### **10.5 Project Course**

##### **10.5.1 Continuous Evaluation**

- i. For Project Course there shall be continuous evaluation during the semester as per the curriculum scheme. The continuous evaluation shall be on the basis of regular assessment by the project guide/ supervisor and minimum two review seminars shall be conducted.
- ii. The following criteria for continuous evaluation of the Project must be followed:

<b>S. No.</b>	<b>Criterion</b>	<b>Weightage</b>
1	Regular Assessment	50%
2	Review Seminars	50%

##### **10.5.2 End Semester Examination**

The end semester examination for project work shall be held by a committee consisting of an External Examiner, Head of the Department and Project Guide. The average of the marks awarded by the committee members shall be taken into consideration in case of variation among the members. The following criteria for evaluation must be followed:

<b>S. N.</b>	<b>Criterion</b>	<b>Weightage</b>
1	Project Report	50%
2	Presentation and Viva Voce	50%

## **10.6 Liberal Learning Courses/ Indian Knowledge System/ Ability Enhancement / Value Education Courses/ Comm. Engg. Project/ Field Project**

For these credit courses, there shall be evaluation as per Scheme of Examination.

## **10.7 Incentive Scheme**

### **Incentive scheme for achievement/ participation in Co-curricular Learning, T&P, Student Forum/Professional Body, R&D, Incubation, Sports, UBA, NSS, NCC, Extra- curricular (Cultural) activities and GATE Examination**

10.7.1 The achievement/participation of any undergraduate or postgraduate student (admitted to any UG or PG programme), in various co-curricular/ extra-curricular activities will be treated as an additional course and shall be awarded grade points as follows from the academic year 2024-25.

10.7.2 For award of incentive marks, student shall be required to submit an application with required proofs/certificates/endorsement received from respective Incharges to the HoD of parent department.

10.7.3 Evaluation of student for UBA, NCC, NSS, Sports, Incubation and T&P shall be done by respective faculty Incharges/Cell. Evaluation for achievement/ participation in remaining activities, compilation of all incentive marks and submission of final incentive marks to CoE shall be done by parent department of the student.

10.7.4 Summation of all incentive marks put together for different achievements/activities should not go above **100 marks** in a semester.

10.7.5 Students will not be eligible for incentive if any of the parameter for which the incentive marks are claimed by student, is a part of curriculum.

For all UG & PG programmes	
Incentive Grade Points	Range of Incentive Marks
10	91-100
9	81-90
8	71-80
7	61-70
6	51-60
5	41-50
4	31-40
0	Less than 31

10.7.6 The guidelines for award of grade points based on absolute incentive marks out of 100 for all above activities are detailed as under:

**a) Co-curricular Learning**

Sr. No.	Particulars	Code	Incentive Marks
1	Offline or online certificate course of minimum 30 Hrs duration offered by IITs / IIMs / IIITs/ NITs /Department of Ministries, Govt. of India/ MOOCs / Premier organizations / Professional bodies/ Others (as approved by the parent department)	A1	80
2	Participation in Training Programs/ Internship at recognized Organizations/ Govt. Organizations	A2	60

Student will not be eligible for incentive incase, if any of the above stated parameters is a part of curriculum. Incentives shall be awarded subject to approval of the online / offline MOOCs by the concerned department and passing of the examination conducted for that course.

**b) T&P, Student Forum & Professional Body**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Code</b>	<b>Incentive Marks</b>
1	All Office Bearers/ members of Departmental Club/ Forum/ Professional Bodies.	B1	50
2	Departmental student Placement Coordinators	B2	50

Office bearers are persons holding the key posts such as President, Vice-President, Secretary, Joint Secretary & Treasurer. For Extra-ordinary performance/contribution, respective faculty In-charge shall assess through proper rubrics and certify the evaluation in consultation with the respective Head of the Department.

**c) R&D Activities**

The student participating in Research, Development and Consultancy is eligible for award of incentives as per the following table:

<b>Sr. No.</b>	<b>Particulars</b>	<b>Code</b>	<b>Incentive Marks</b>
1	Winner in research /innovation/ Project competitions of repute, organized by IITs / IIMs/ IIITs / NITs/other institutes having NIRF rank/Departments of Ministries, Govt. of India/ Premier organizations/ Professional bodies	C1	80
2	Participation in research/ innovation/ Project competitions of repute, organized by IITs/ IIMs/ IIITs/ NITs/other institutes having NIRF rank/ Departments of Ministries, Govt. of India/ Premier organizations/ Professional bodies.	C2	60
3	Participation in Research/Consultancy projects of the Institute	C3	80
4	● Research Paper accepted for publication in journal indexed in Science Citation Index (SCI)/ Scopus/	C4	80

	Emerging Sources of Citation index (ESCI), etc. ● Patent filed/ granted jointly with the institute.		
5	Research paper presented in Conference organized by IITs/ IIMs/ IIITs/ NITs/ other Institutes having NIRF rank/ Premier organizations/ Professional bodies.	C5	60

- Student will not be eligible for incentive in case, if any of the above stated parameters is a part of curriculum.
- If more than one student is involved, the marks awarded will be divided equally amongst the students.

**d) Incubation related activities:** The students participating in incubation related activities are eligible for the award of incentives as per the following table:

Sr. No.	Particulars	Code	Incentive Marks
1	Incubation Stages:- Pre-incubation Stage/ Incubation stage/ Startup phase	D1	80
2	Seed Funding Support Received for start-ups	D2	80
3	Participation in Intercollegiate Project/ Hackathon competitions organized by IIMs/ IITs and any other nationally renowned Organization/ Professional Bodies	D3	60

**e)** If more than one student is involved, the marks awarded will be divided equally amongst the students.

**Note :** Incentives for start-up related activities shall be offered subject to fulfillment of the criteria & guidelines decided by the EDC Cell from time to time and after due scrutiny by EDC Cell In-charge.

**f) Sports/ NSS/ UBA/ NCC activities:** The students' special achievements in Sports/NSS/UBA/NCC etc. is eligible for the award of incentives as per the following:

<b>Sr. No.</b>	<b>Parameter</b>	<b>Code</b>	<b>Incentive Marks</b>
1	Securing I/ II/ III place in University Sports	F1	80
2	Participation in activities related to Unnat Bharat Abhiyan (UBA)/ NSS regular volunteer/ NCC	F2	60
3	West Zone/ Inter University/ National level Participation (Sports/NSS/NCC)	F3	80
4	Participation in University Sports	F4	60

Students participating/ securing positions in the above activities shall be awarded Incentive marks individually.

**g) Extra-Curricular (Cultural) Activities**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Code</b>	<b>Incentive Marks</b>
1	Winners in Inter collegiate University level competitions	G1	80
2	Participation in Inter University/National level competitions	G2	80
3	Participation in Inter collegiate University level competitions	G3	60

Students participating/ securing positions in the above activities shall be awarded Incentive marks individually.

**h) Any Other Development Activities**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Incentive Marks</b>
1	Significant contribution towards Institutional/ Departmental level activities as certified by the Head of Department and approved by Chairman, Academic Council	40

### 10.7.7. Performance in GATE Examination for UG Programmes only:

The following incentive scheme shall be applicable for the performance of student in GATE Examination:

- A student of the Institute who is pursuing B. Tech. programme, and who has qualified GATE examination with valid pass score as certified by the competent authority shall be eligible for the award of GATE incentive-grade points (IP<sub>G</sub>) after the completion of VIII Semester subject to submission of written request by the student along-with necessary supporting documents. This will be effective from academic year 2026-27.
- The GATE incentive grade points (IP<sub>G</sub>) awarded after qualifying GATE shall be over and above the incentive marks / grade points awarded against Co- Curricular, Extra Curricular and other activities of the Incentive Scheme.
- The GATE incentive grade points (IP<sub>G</sub>) will be decided such that there should be an addition of 0.1 in CGPA with a maximum limit of CGPA equal to 10.

Sr. No.	Scheme	GATE incentive grade points (IP <sub>G</sub> )	Rise in CGPA (VIII SEM) due to (IP <sub>G</sub> )
1.	UG schemes of 160 credits	16.0	0.1

The incentive-grade points (IPG) shall be used for the calculation of CGPA of VIII Semester as under, after successful completion of the programme in which the student was admitted, as per regulations:

$$CGPA = \frac{\sum C_j P_j + C_{al} P_{al} + IP_G}{C_j}$$

Where,

C<sub>j</sub>=the number of credits for the jth course up to the semester for which CGPA is to be calculated.

P<sub>j</sub>= Grade points earned in the jth course.

j = 1, 2,.....,m represent the number of courses in\_ which a student is registered up to the semester for which the CGPA is to be calculated. The CGPA is also calculated to two decimal places.

C<sub>al</sub> =Incentive credit in semester

P<sub>al</sub>=Grade point for participating in incentive activities in semester

IP<sub>G</sub>=GATE incentive grade points.

CGPA is rounded up to two decimal places and shall not exceed 10.

## **10.8 Paper Showing and Grievance Handling**

Valued answer books shall be shown to the students within seven working days after the last day of theory examination i.e., on open day. Grievances, if any, shall be communicated by the students to the CoE office through Grievance forms within prescribed time limit, appropriate action will be taken by CoE office as per the Examination Guidelines.

## **10.9 Revaluation**

### **End Semester Examination**

- a) As per the notification issued by the Controller of Examinations, the students can submit the applications for revaluation, along with the requisite fee receipt for revaluation of his/her answer-sheet(s) of theory course(s), if he/she is not satisfied with the marks obtained.
- b) The Controller of Examinations shall arrange for re-evaluation of those answer-sheet(s).
- c) A new valuer, other than the first valuer, shall re-evaluate the answer-sheet(s).
- d) After revaluation, if the change in the marks is more than or equal to  $\pm 5\%$  of the total marks of that examination, then the revaluated marks shall be considered as final marks else there shall be no change in the marks.

## **10.10 Forego**

**10.10.1 An examinee securing 'F' grade in any course** of an examination of a programme shall have an option to forego his/her continuous assessment marks in a course or courses. In such cases he/she shall be examined for a total mark comprising theory/practical end semester examination and continuous assessment together, at his/her successive attempt at the examination. Such an option can be availed by an examinee in case he/she is appearing for the successive attempts at the examination as ex-student for that particular course. A student who is detained from appearing in an examination in a course(s) for lack of attendance can exercise the option of forego in successive attempts at the examination as ex-student. To avail this, the examinee would indicate 'the same in his or her 'Application for the examination' and the option once exercised, shall be 'Final and Binding' on the examinee concerned for all the subsequent examinations in that course. For the examinee opting for forego, his/her marks in continuous assessment shall be ascertained proportionately on the basis of his/her marks in the end semester examination of that course.

1010.2 An examinee can opt for forego of his/her marks in continuous assessment of a practical course only after submission of 'Term work completion' certificate issued by the concerned head of the department along with the 'Application for the examination'. "The decision in this regard taken by the Chairman of the Academic Council will be final."

## **11. Attendance, Absence, Leave Rules and Dismissals**

11.1 All the students are expected to be present in every lecture, tutorial, practical and other allotted hours in the: time table. Attendance will be closely monitored during a semester by the concerned department.

11.2 If a student is continuously absent from the classes for more than four weeks without informing the Course Coordinator, the Coordinator shall immediately bring it to the notice of the Head of the concerned department as the case may be and they in tum will inform the same to the Office of Dean Academics.

11.3 The names of the students who have remained absent, for more than 25% of the actual classes held in a course will be intimated by the Course Coordinator himself/herself on the last teaching day of each month of the respective semester, to the students in ttle class with written intimation to the HOD, who will arrange to consolidate the list for all such students for all the courses and display it on the notice board of the department with an intimation to Dean Academics. Warning Letters shall be issued to the parents of concerned students by the department and its acknowledgement record shall be well maintained.

11.4 A student must have an overall 75% attendance of the total number of classes including lectures/ tutorials and practicals for appearing in the end semester examination.

### **11.5 Condonation of Attendance:**

11.5.1 Condonation of attendance can only be considered in case the overall attendance of the student is minimum 60%.

11.5.2 A deficiency of overall attendance to the extent of 15% may be condoned by the Principal on the recommendation of Head of the Department on being satisfied that the same

deficiency in attendance was due to circumstances beyond the control of the student.

11.5.3 For availing such Condonation, a student will have to apply to the Head of concerned department along with requisite documents. However, the decision in this matter will be finally taken by the Principal.

11.6 In case the condonation of attendance has been rejected or overall attendance is below 60% of the total number of classes including lectures/ tutorials and practicals, his/her attendance in individual courses shall be considered. If in any course his/her attendance is minimum 60%, he/she shall be eligible to appear in end semester examination of that course. If the attendance in a particular course is below 60% of such student[s], he/ she shall not be eligible to appear for the regular end semester examination and its Resit examination [if any]

A student who is detained from appearing in an examination in a course(s) for lack of attendance can exercise the option of forego in successive attempts at the examination as ex-student. To avail this, the examinee would indicate the same in his or her 'Application for the examination' and the option once exercised, shall be 'Final and Binding' on the examinee concerned for all the subsequent examinations in that course. For the examinee opting for forego, his/her marks in continuous assessment shall be ascertained proportionately on the basis of his/her marks in the end semester examination of that course.

An examinee can opt for forego of his/her marks in continuous assessment of a practical course only after submission of 'Term work completion' certificate issued by the concerned head of the department along with the 'Application for the examination'. The decision in this regard taken by the Chairman of the Academic Council will be final.

## **12. Grading System**

### **12.1 The Grading System**

#### **a. Award of Grades in a course:**

For every course taken by a student, he/she shall assign a grade based on his/her combined performance in all components of evaluation scheme of a course. The grade indicates a

qualitative assessment of the student's performance and is associated with equivalent number called a grade point. The marks of different components would be reduced to relative weightages of each component as given in Scheme of Examination.

For 30 or more number of students in a course, the statistical method shall be used with marginal adjustment for natural cut-off. The mean ( $\bar{X}$ ) and the standard deviation ( $\sigma$ ) of marks obtained of all the students in a course shall be calculated and the grades shall be awarded to a student depending upon the marks and the mean and the standard deviation as per Table 12.1. Whenever a course examination has less than 30 students, grades will be based on absolute marks and conversion will be done as per Table No. 12.2 and 12.3. If there are regular as well as ex-students at the examination, the grade cut off will be calculated on the basis of marks scored by regular students and will be applicable to all students. The letter Grades (up to 'D' only in theory courses and practical courses) awarded to a student in all the credit courses shall be converted into a SGPA and CGPA to be calculated as given in Regulation 12.4.

**Table 12.1: Awards of Grade using Statistical Method**

<b>Table showing method for conversion of marks into Grades</b>	
<b>Range of Marks</b>	<b>Grades</b>
$\geq \bar{x} + 1.5 \sigma$	A+
$\geq \bar{x} + 1.0 \sigma$ to $< \bar{x} + 1.5 \sigma$	A
$\geq \bar{x} + 0.5 \sigma$ to $< \bar{x} + 1.0 \sigma$	B+
$\geq \bar{x} - 0.5 \sigma$ to $< \bar{x} + 0.5 \sigma$	B
$\geq \bar{x} - 1.0 \sigma$ to $< \bar{x} - 0.5 \sigma$	C
$\geq \bar{x} - 1.5 \sigma$ to $< \bar{x} - 1.0 \sigma$	D
$< \bar{x} - 1.5 \sigma$	F
Where $\bar{x}$ is arithmetic mean and $\sigma$ is Standard deviation	

**Explanation:**

**'F' Grade:** The 'F' grade denotes poor performance amounting to failure. A student has to repeat all courses in which he/ she obtains 'F' grade, till a passing grade is obtained. For the elective courses in which 'F' grade has been obtained, the student has to take the same course.

**'Ab' Grade:** This grade indicates absence in End Semester Examination

**12.1.1 The award of grades will be subjected to the following process:**

**a. Theory Course:**

If  $(\bar{x} - 1.5 \sigma) > 40$  then grade calculation for B, C, D & F shall be as given below, while that for A+, A and B+ shall be same as per Table 12.1 of this Regulations.

$$B \geq \bar{x} - (\bar{x} - 40) \times 1/3,$$

$$C \geq \bar{x} - (\bar{x} - 40) \times 2/3,$$

$$D \geq \bar{x} - (\bar{x} - 40) \times 3/3,$$

$$F \leq \bar{x} - (\bar{x} - 40) \times 3/3$$

If  $(\bar{x} - 1.5 \sigma) < 40$  for all those theory courses with passing marks of 40 then lower limit for award of D grade shall be reduced up to 40 marks step by step, so that failure % should not exceed 15%.

**b. Practical Course:**

If  $(\bar{x} - 1.5 \sigma) < 50$  then Cutoff for passing shall be 50. But if  $(\bar{x} - 1.5 \sigma) > 50$  then grades calculation for B, C, D and F shall be as given below, while that for A+, A and B+ shall be same as per Table 12.1 of this Regulations.

$$B = > \bar{x} - (\bar{x} - 50)/3,$$

$$C \geq \bar{x} - (\bar{x} - 50) \times 2/3,$$

$$D \geq \bar{x} - (\bar{x} - 50) \times 3/3,$$

$$F < \bar{x} - (\bar{x} - 50) \times 3/3$$

The grades awarded to the students will be converted into the equivalent grade points according to the Table no. 12.2

**Table 12.2: Grades equivalent to Grade Points**

<b>Grades, Equivalent Grade Points &amp; Academic Performance</b>		
<b>Academic Performance</b>	<b>Conversion of Grades into Grade Points</b>	
	<b>Grade</b>	<b>Grade Point</b>
Outstanding	A+	9.00 to 10.00
Excellent	A	8.00 to <9.00
Very Good	B+	7.00 to <8.00
Good	B	6.00 to <7.00
Average	C	5.00 to <6.00
Satisfactory	D	4.00 to <5.00
Fail	F	Below 4.00
Absent	Ab	-

12.2 If the number of examinees at the examination is less than 30, in a particular course, then Table 12.3 will be used for theory courses while Table 12.4 will be used for Non Theory courses like Practicals, Seminars, Projects, etc. for award of grades.

**Table12.3: Theory Course Grading**

<b>Range of Marks</b>	<b>Grades</b>
91-100%	A+
81-90 %	A
73-80 %	B+
64-72 %	B
56-63 %	C
50-55 %	D
Less than 40 %	F
Absent	Ab

**Table 12.4: Grading for Non-Theory Courses**

<b>Range of Marks</b>	<b>Grades</b>
91-100%	O
81-90 %	A+
71-80 %	A
62-70 %	B+
58-61 %	B
54-57 %	C
50-53 %	D
Less than 50 %	F
Absent	Ab

Provided further, the calculation of arithmetic mean ( $\bar{X}$ ), Standard Deviation ( $\sigma$ ), upper and lower cut offs of the various grades will be computed by using the marks scored by regular students at the examination for an individual course and the same values of grade cut-offs shall be used for processing the result of regular as well as ex-students appearing at the same examination. These cut off marks for the upper and lower limits of grades shall remain same for the backlog examination of that term only. (i.e cutoff of Odd Semester will be applicable to Backlog of Odd Semester and cutoff of Even Semester will be applicable to Backlog of Even Semester). A student passing a course in Re-Sit examination shall be treated as having cleared the course in First Attempt.

In case, an ex-student appears for examination of the course along with regular students appearing in that course then the cut-off marks of the regular examination shall be applicable. Students appearing for examination as Ex-Student, where there are no regular students, the grading will be done by absolute grading system. (e.g. In Odd Semester ESE students of IV, VI, VIII semester appearing as Ex-Students will be awarded grades as per absolute grading table.)

### **12.2 Guidelines for Award of Grades**

Degree will be based on SGPA and CGPA calculations since First Semester (Third semester in case of lateral entry students). Following are the general guidelines for the award of grades:

- i. In general, relative grading system will be followed.
- ii. For each student, evaluation in different components of a course shall be done in absolute marks considering the weightage in the scheme.
- iii. The marks of various components shall be added to get total marks secured on a 100-points scale and should be rounded off.
- iv. The provisional grades shall be awarded by the Examination Committee. The grades shall be finalized within thirty working days after the End Semester Examination including moderation by Grade moderation committee of respective BoS.
- v. The grades shall be awarded by the course coordinators and communicated to the controller of examinations. The course coordinator shall decide and declare the mode of evaluation for the audit courses within the date prescribed by the Dean Academics.

### **12.3 Award of Grade**

For the award of grades in a course, all component-wise evaluation is done in marks. The marks of different components viz. Continuous Assessment (CA), Mid Semester Examination (MSE), End- Semester-Examination (ESE), are reduced to relative weightages of each component as given in Scheme of Examination. A student will be awarded suitable pass grade in that course [Theory and Practical] only if he/she has scored at least 10% of ESE Marks of that Course. Marks so obtained would be converted to grades at the end of semester. Degree will be based on SGPA and CGPA calculations since First Semester (Third semester in case of lateral entry students).

### **12.4 Calculation of SGPA and CGPA**

SGPA and CGPA will be calculated on the basis of the grades as detailed below:

The performance of a student in a semester is indicated by a number called SGPA. The SGPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester.

$$SGPA = S_i = \frac{\sum C_i P_i + C_a P_a}{\sum C_i}$$

$C_i$  = the number of credits for the  $i^{\text{th}}$  course of a semester for which SGPA is to be calculated.

$P_i$  = Grade points earned by the student in the  $i^{\text{th}}$  course.

$i = 1, 2, \dots, n$  represent the number of courses in which a student is registered in the concerned semester.

$C_a$  = Incentive credit

$P_a$  = Grade point for participating in activities of incentive scheme.

SGPA is rounded up to two decimal places only and SGPA shall not exceed 10.

#### 12.4.4 Calculation of Cumulative Grade Point Average (CGPA)

An up-to-date assessment of the overall performance of a student from the time of his/her first registration is obtained by calculating a number called CGPA, which is weighted average of the grade points obtained in all the courses registered by the student since he/she entered the Institution.

$$\text{CGPA} = \frac{\sum C_i S_i + IP_G}{\sum C_i}$$

Where,

$C_i$  = the total number of credits in that semester for which CGPA is to be calculated.

$S_i$  = SGPA of the  $i^{\text{th}}$  semester.

$IP_G$  = GATE incentive grade points for UG programmes only.

CGPA is rounded up to two decimal places only, shall not exceed 10 and reported in the transcripts.

#### CGPA to percentage (%) conversion formula:

$$\text{Percentage (\%)} = (\text{CGPA}) * 10$$

#### Division /Class:

- First Class with distinction: CGPA 7.5 and above,
- First Class: CGPA 6.0 and above, but less than 7.5, and
- Second Class: CGPA less than 6.0

## **12.5 Improvement of Grade/CGPA while undertaking a Programme**

Student shall be permitted to improve their grade under the following conditions.

1. The examination for improvement of grades shall hereafter be termed as 'Improvement Examination'.
2. The facility for improvement of grades will be available to the students having CGPA below 6.75.
4. The improvement is possible only in theory papers. No improvement is permissible in Practicals/ lab courses, projects, workshops and assignments.
5. The improvement examination shall be conducted along with the Re-Sit Examination.
6. The Improvement Examination can be undertaken only for the courses in which a candidate had appeared as a regular student in the end term examination for which the Re-Sit is being conducted.
7. Additional examination fees will be paid by the student for appearing in the examination for improvement in the grade. The fee payable shall be as prescribed by the Finance Committee.
8. After the improvement examination result of the course taken for improvement of grade, better of the two grades, that is grade already awarded and the grade secured in the improvement examination will be considered.
9. A candidate who has reappeared for the above examinations under the provision of this ordinance and fails to improve his/her grade, his/her performance at such reappearance shall be ignored.
10. Student having undertaken Improvement Examination will not be eligible for the award of any medal/merit position.
11. The student shall be issued a fresh replacement grade card indicating the new grade with a mark which shall be explained as improved Grade' only if he/she has improved the grades. The old grade card must be submitted to the concerned office before issue of new grade card.
12. For calculation of standard relative grade for evaluation of the academic performance of an examinee in a course in improvement examination, the mean, standard deviation and cutoff of grades of that course in the regular examination shall be applicable.

## **12.6 Grade Moderation Committee**

The Grade Moderation Committee for different programmes shall be appointed semester wise by the Chairman, Academic Council. This committee shall be responsible for adherence to the guidelines for the award of grades and shall include all the concerned Course Coordinators. The Chairman, Grade Moderation Committee shall be responsible for forwarding the final grades to the COE.

The Grade Moderation Committee for the first and second semester (first year) shall consist of all the Course Coordinators of the courses offered to the first and second semester students in a semester, with the HoD First year as the Chairman. The Chairman, Grade Moderation Committee shall be responsible for forwarding the final grades to the COE.

## **12.7 Grade Card**

12.7.1 The grade card shall be issued at the end of the semester to each student and will contain the following:

- a) The credits for each course registered for that semester.
- b) The grade points and letter grades obtained in each course.
- c) The total number of credits earned by the student upto the end of that semester in each of the course.
- d) The SGPA and the CGPA.

12.7.2 Grade card will not indicate class or division or rank.

12.7.3 Wherever required the conversion of CGPA to percentage of marks prevailing guidelines from the affiliating University and Competent Authority to be followed.

## **12.8 Indication of Attempt on Grade Card**

12.8.1 The following Characters will be displayed in the Grade Card to indicate the attempts. The Degree will not have any such indication. The Grade Cards of successive attempts will be separately provided. However, a single Grade Card for a semester may be provided after all the subjects of that semester are passed in more than one attempt. But it will be marked 'N' as already said. The student will have to separately apply to the Controller of Examinations for the single

semester Grade Card with copies of all the intermediate semester Grade Card along with a fee decided by the Finance Committee.

M - With Re-Sit Examination

N - Not in the First Attempt

IG- Improvement Grade

### **12.9 Minimum Requirements for the Award of the Degree**

12.9.1 The student should have taken and passed all the prescribed courses including similar and projects under the general institutional and departmental requirements.

12.9.2 The credits for the courses in which a student has obtained 'D' grade or higher shall be counted as 'credits earned by him/her. The grades awarded for successful and unsuccessful completion of Audit Course shall be 'D' and 'F' respectively. The student should also have 'D' grade in all the audit courses otherwise he/she will have to repeat the audit course provided that a student should have no case of indiscipline pending against him/her.

### **12.10 Award of Degree**

The Degrees shall be awarded by the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur along with the name of college, on recommendations of the Academic Council/ Board.

### **12.11 Award of Medals/ Scholarships**

12.11.1 The award of scholarships / freeships and other benefits will be in accordance with rules framed by the Government of Maharashtra and Govt. of India.

12.11.2 Awards available under excellent performances in sports, cultural, extra- curricular, debate, etc. shall be given to the students as per Institute policy. The award of merit scholarships / need base scholarship /medals shall be awarded to the students as per the Institute's policy.

12.11.3 Students clearing all courses offered in a programme in regular examination in first attempt shall be considered for the award of merit / medal as per their order of merit.

12.11.4 In case, a student has cleared any course offered in a programme in Re-Sit examination he/ she shall not considered for the award of merit/ medal.

### **13. Code of Conduct and Discipline**

13.1 Every student is required to observe discipline and decorous behavior both inside and outside the campus and not to indulge in any activity, which will tend to bring down the prestige of the Institute.

13.2 The following acts of omission and/ or commission by the students within or outside the college campus shall constitute gross violation of 'Code of Conduct' punishable as indiscipline.

- a) Lack of courtesy and decorum, as well as indecent behavior;
- b) Willful damage of property of institute/Hostel or of fellow students;
- c) Possession/ Consumption/ Distribution of alcoholic drink and banned drugs;
- d) Mutilation or unauthorized possession of library materials like books, journals etc.
- e) Noisy and Unseemly behavior disturbing peace in Institute and Hostel;
- f) Hacking in Computer system, either hardware or software or both;
- g) Any other act considered by the Institute as a gross indiscipline.

13.3 Any act of student's indiscipline will be addressed by Discipline Committee duly constituted and notified by the Principal. The Committee will enquire into the charges of indiscipline and recommend appropriate measures/punitive action to the Principal. The Discipline committee may inform the recommendations to the students. Decision of the Principal would be final.

13.4 Appeal: The student may appeal to the Chairman, Academic Council whose decision will be final. The Principal will report the action taken at the next meeting of the Academic Council.

13.5 If the student while studying in the Institute is found indulging in anti-national activities contrary to the provisions of acts and laws enforced by Government, he/ she will be liable to be expelled from the Institute without any notice.

13.6 If a student is involved in any kind of ragging, the student shall be liable for strict action as per Maharashtra anti-ragging act 1999, which is in effect from 15th May 1999.

13.7 If any statement/ information supplied by the student in connection with his/her admission is found to be false/ incorrect at any time, his/her admission shall be cancelled and he/she shall be expelled from the Institute and fees paid shall be forfeited.

13.8 Student once admitted in the Institute has to follow dress code, if any, as well as other instructions issued by the administration from time to time, failing which disciplinary action shall be initiated against such student.

13.9 If student is found guilty of overall misconduct during his/her stay in the institute, he/she will be punished as per the recommendations of the Principal. The maximum punishment may be expulsion from the Institute.

#### **14. Act of Malpractices/ Unfair Means**

**Every student appearing for the End Semester Examination is liable to be charged with committing malpractice(s) / use of unfair means, if he / she is observed as committing any of the following acts:**

Misbehavior with officials / using unfair means / creating nuisance / using obscene language / violence / threat at the Centre to the person involved in conduct of examination etc. or any other kind of rude behavior in or near the Examination Hall.

- a) Writing on the Question Paper/ Admission Card & or passing on any type of written paper to the other student(s) in the examination Hall.
- b) Disclosing his/her identity by writing any words or by making any peculiar marks on the pages other than the facing sheet in the answer scripts.
- c) Possession of electronic gadgets like mobile phones, Programmable calculator, pen-drive or such other storage devices in the Examination Hall.
- d) Communicating with any other student(s) any other person(s) inside or outside the Examination Hall with a view to take assistance or aid to write answers in the examination.

- e) Copying from the material or, matter or answer(s) of another student or from similar aid or assistance rendered by another student within the Examination Hall.
- f) Making any request of representation or offer of any threat for inducement or bribery to Jr. Supervisor and / or any other official for favors in the Examination Hall or in the answer script.
- g) Approaching directly or indirectly the teaching staff, officials or examiners or bring about undue pressure or influence or influence upon them for favour in the examination.
- h) Smuggling out or smuggling in the answer script pages or supplementary sheets or tearing them off and / or inserting pages written outside the examination hall in to the answer scripts.
- i) Receiving material from outside or inside the Examination Hall for the purpose of copying.
- j) Bringing into the Examination Hall or being found in possession of portions of an unauthorized book, manuscript or such other material or matter in the Examination Hall.
- k) Copying or taking aid from any material or matter referred to in sub- clauses (J & K) above to answer in the examination.
- l) Impersonating or allowing any other person to impersonate to answer in his/her place in the Examination Hall.
- m) Committing any other act or commission or omission intending to gain an advantage or favour in the examination by misleading, deceiving or inducing the examiner or official.
- n) Having in one's possession any written matter on scribbling pad, calculator, palm, hand, leg, any part of body, clothing, socks, instrument box, identity Card, Hall Ticket, Scales etc.
- o) Destroying any evidence of malpractice, like, tearing or mutilating the answer script(s) or running away along with the answer script(s) from the examination Hall.
- p) Notwithstanding anything contained above, any other activity in which the student has indulged and which in the opinion of the authorities of the Institute constitutes malpractice/ use of Unfair means will be construed as malpractice/ use of Unfair means.

## **15. Emergent Cases**

Notwithstanding anything contained in the above regulations, the Chairman of the Academic Council may, in emergent situations, take action on behalf of the Academic Council as he thinks necessary and shall at the earliest opportunity; report it in the next meeting of the Academic Council.

## **16. Interpretation of Regulations**

In case of any dispute, difference of opinion in interpretation of these regulations or any other matter not covered in these regulations, the decision of the Chairman, Academic Council shall be final and binding.

## **17. Power to Modify**

Notwithstanding all that has been stated above, the Governing Body has the right to modify any of the above regulations from time to time.

## ANNEXURE-A

### Curriculum Scheme of I Semester B. Tech.

With effect from Session 2024-25 [NEP-2020 compliant]

#### B.Tech. Semester-I (Civil Engineering)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme							
					(Th)	TU	P		Theory			Practical				
									Exam Hrs.	MSE	CA	ESE	CA	ESE		
1	BSC-I	1BCV01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-		
2	BSC-II	1BCV02T	Applied Physics	ASH	2	-	-	2	2	15	10	25	-	-		
3	BSC-II	1BCV02P	Applied Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25		
4	ESC-I	1BCV03T	Engineering Graphics	Civil	3	-	-	3	3	30	20	50	-	-		
5	ESC-I	1BCV03P	Engineering Graphics Lab	Civil	-	-	2	1	-	-	-	-	25	25		
6	ESC-II	1BCV04T	Construction Materials and Practices	Civil	3	-	-	3	3	30	20	50	-	-		
7	ESC-II	1BCV04P	Construction Materials and Practices Lab	Civil	-	-	2	1	-	-	-	-	25	25		
8	AEC-I	1BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-		
9	VSC-I	1BCV05P	Application of Python in Civil Engineering	Civil	-	-	4	2	-	-	-	-	50	50		
10	CC-I	1BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-		
<b>Total</b>					<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>225</b>	<b>125</b>		
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>350</b>		
									<b>Total Marks (I Semester)</b>						<b>750</b>	

*[Signature]*

*[Signature]*

*[Signature]*  
**PRINCIPAL**  
**K.D.K. COLLEGE OF ENGG.**  
**NAGPUR-24.**



**B.Tech. Semester-I (MECHANICAL Engineering)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (Hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory			Practical			
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-I	1BME01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-	
2	BSC-II	1BME02T	Applied Physics	ASH	2	-	-	2	2	15	10	25	-	-	
3	BSC-II	1BME02P	Applied Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-I	*1BME03T	Engineering Graphics	Mech	3	-	-	3	3	30	20	50	-	-	
5	ESC-I	*1BME03P	Engineering Graphics Lab	Mech	-	-	2	1	-	-	-	-	25	25	
6	ESC-II	*1BME04T	Programming for Problem Solving	Mech	3	-	-	3	3	30	20	50	-	-	
7	ESC-II	*1BME04P	Programming for Problem Solving Lab	Mech	-	-	2	1	-	-	-	-	25	25	
8	AEC-I	1BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-	
9	VSC-I	*1BME05P	Workshop Practices Lab	Mech	-	-	4	2	-	-	-	-	50	50	
10	CC-I	1BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>						13	-	14	20	-	120	80	200	225	125
									Total Marks (Theory & Practical)			400		350	
									Total Marks (I Semester)			750			

**B.Tech. Semester-I (Electrical Engineering)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-I	1BEE01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-
2	BSC-II	1BEE02T	Applied Physics	ASH	2	-	-	2	2	15	10	25	-	-
3	BSC-II	1BEE02P	Applied Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-I	1BEE03T	Fundamentals of Electrical Engineering	Electrical	3	-	-	3	3	30	20	50	-	-
5	ESC-I	1BEE03P	Fundamentals of Electrical Engineering Lab	Electrical	-	-	2	1	-	-	-	-	25	25
6	ESC-II	1BEE04T	Problem Solving using 'C'	Electrical	3	-	-	3	3	30	20	50	-	-
7	ESC-II	1BEE04P	Problem Solving using 'C' Lab	Electrical	-	-	2	1	-	-	-	-	25	25
8	AEC-I	1BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-
9	VSC-I	1BEE05P	Electrical Workshop-I	Electrical	-	-	4	2	-	-	-	-	50	50
10	CC-I	1BCC06P	Refer CC Basket	ASH	-	-	4	2					100	
<b>Total</b>					13	--	14	20		120	80	200	225	125
<b>Total Marks (Theory &amp; Practical)</b>									400			350		
<b>Total Marks (I Semester)</b>									750					

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**B.Tech. Semester-I (Electronics and Telecommunication Engineering -Major)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme							
					(Th)	TU	P		Theory			Practical				
									Exam Hrs.	MSE	CA	ESE	CA	ESE		
1	BSC-I	1BET01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-		
2	BSC-II	1BET02T	Applied Physics	ASH	2	-	-	2	2	15	10	25	-	-		
3	BSC-II	1BET02P	Applied Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25		
4	ESC-I	1BET03T	Programming for Problem Solving	ETC	3	-	-	3	3	30	20	50	-	-		
5	ESC-I	1BET03P	Programming for Problem Solving lab	ETC	-	-	2	1	-	-	-	-	25	25		
6	ESC-II	1BET04T	Basics of Electrical & Electronics Engineering	ETC	3	-	-	3	3	30	20	50	-	-		
7	ESC-II	1BET04P	Basics of Electrical & Electronics Engineering lab	ETC	-	-	2	1	-	-	-	-	25	25		
8	AEC-I	1BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-		
9	VSC-I	1BET05P	Electronics workshop I	ETC	-	-	4	2	-	-	-	-	50	50		
10	CC-I	1BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-		
<b>Total</b>					<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>225</b>	<b>125</b>		
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>350</b>		
									<b>Total Marks (I Semester)</b>						<b>750</b>	

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### B.Tech. Semester-I (Artificial Intelligence and Data Science)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-I	1BAD01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-
2	BSC-II	1BAD02T	Applied Chemistry	ASH	2	-	-	2	2	15	10	25	-	-
3	BSC-II	1BAD02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-I	1BAD03T	Problem Solving using 'C'	AD	3	-	-	3	3	30	20	50	-	-
5	ESC-I	1BAD03P	Problem Solving using 'C' Lab	AD	-	-	2	1	-	-	-	-	25	25
6	ESC-II	1BAD04T	Basics of Electronics Engineering	AD	3	-	-	3	3	30	20	50	-	-
7	ESC-II	1BAD04P	Basics of Electronics Engineering Lab	AD	-	-	2	1	-	-	-	-	25	25
8	IKS-I	1BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-
9	VSC-I	1BAD05P	Web Design Technology	AD	-	-	4	2	-	-	-	-	50	50
10	CC-I	1BCC06P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-
<b>Total</b>					<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>225</b>	<b>125</b>
<b>Total Marks (Theory &amp; Practical)</b>									<b>400</b>			<b>350</b>		
<b>Total Marks (I Semester)</b>									<b>750</b>					

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## B.Tech. Semester-I (Information Technology)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-I	1BIT01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-
2	BSC-II	1BIT02T	Applied Chemistry	ASH	2	-	-	2	2	15	10	25	-	-
3	BSC-II	1BIT02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-I	1BIT03T	Problem Solving using 'C'	IT	3	-	-	3	3	30	20	50	-	-
5	ESC-I	1BIT03P	Problem Solving using 'C' Lab	IT	-	-	2	1	-	-	-	-	25	25
6	ESC-II	1BIT04T	Basics of Electronics Engineering	IT	3	-	-	3	3	30	20	50	-	-
7	ESC-II	1BIT04P	Basics of Electronics Engineering Lab	IT	-	-	2	1	-	-	-	-	25	25
8	IKS-I	1BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-
9	VSC-I	1BIT05P	Web Design Technology	IT	-	-	4	2	-	-	-	-	50	50
10	CC-I	1BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-
<b>Total</b>					<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>225</b>	<b>125</b>
<b>Total Marks (Theory &amp; Practical)</b>									<b>400</b>			<b>350</b>		
<b>Total Marks (I Semester)</b>									<b>750</b>					

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## B.Tech. Semester-I (Computer Science & Engineering)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-I	1BCS01T	Applied Mathematics-I	ASH	3	-	-	3	3	30	20	50	-	-
2	BSC-II	1BCS02T	Applied Chemistry	ASH	2	-	-	2	2	15	10	25	-	-
3	BSC-II	1BCS02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-I	1BCS03T	Problem Solving using 'C'	CSE	3	-	-	3	3	30	20	50	-	-
5	ESC-I	1BCS03P	Problem Solving using 'C' Lab	CSE	-	-	2	1	-	-	-	-	25	25
6	ESC-II	1BCS04T	Basics of Electronics Engineering	CSE	3	-	-	3	3	30	20	50	-	-
7	ESC-II	1BCS04P	Basics of Electronics Engineering Lab	CSE	-	-	2	1	-	-	-	-	25	25
8	IKS-I	1BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-
9	VSC-I	1BCS05P	Web Design Technology	CSE	-	-	4	2	-	-	-	-	50	50
10	CC-I	1BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-
<b>Total</b>					<b>13</b>	<b>-</b>	<b>14</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>225</b>	<b>125</b>
<b>Total Marks (Theory &amp; Practical)</b>									<b>400</b>			<b>350</b>		
<b>Total Marks (I Semester)</b>									<b>750</b>					

## ANNEXURE-B

### CURRICULUM SCHEME OF II SEMESTER B. Tech.

#### B.Tech. Sem-II (Civil Engineering)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory			Practical			
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-III	2BCV01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-	
2	BSC-IV	2BCV02T	Applied Chemistry	ASH	3	-	-	3	3	30	20	50	-	-	
3	BSC-IV	2BCV02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-III	2BCV03T	Engineering Mechanics	Civil	3	-	-	3	3	30	20	50	-	-	
5	ESC-III	2BCV03P	Engineering Mechanics Lab	Civil	-	-	2	1	-	-	-	-	25	25	
6	PCC-1	2BCV04T	Construction Workshop Practices	Civil	2	-	-	2	2	15	10	25	-	-	
7	IKS-I	2BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-	
8	SEC-I	2BSE01P	Refer SEC Basket	Civil	-	-	4	2	-	-	-	-	50	50	
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>	
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>300</b>	
									<b>Total Marks (II Semester)</b>			<b>700</b>			

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COURSE CODE				
SEM	B.Tech.	Branch	Subject S.N.	T/P
<b>1</b>	<b>B</b>	<b>CV</b>	<b>01</b>	<b>T</b>

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Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits (see Exit Courses) in skill-based courses, internship, mini projects etc.

**B.Tech. in Civil Engineering (Exit Level)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	CVEXT01P	Strength of Materials Lab	Civil	-	-	2	1	-	-	-	-	25	25
2	Exit Course	CVEXT02P	Geotechnical Investigations Lab	Civil	-	-	2	1	-	-	-	-	25	25
3	Exit Course	CVEXT03P	Internship	Civil	-	-	-	6	-	-	-	-	-	200
<b>Total</b>					-	-	4	8	-	-	-	-	50	250
<b>Total Marks (Exit Courses)</b>									<b>300</b>					

EXIT COURSE CODE			
Branch	EXIT	Subject S.N.	T/P
<b>CV</b>	<b>EXT</b>	<b>01</b>	<b>T</b>

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**B.Tech. Sem-II (Mechanical Engineering)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (Hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory			Practical			
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-III	2BME01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-	
2	BSC-IV	2BME02T	Applied Chemistry	ASH	3	-	-	3	3	30	20	50	-	-	
3	BSC-IV	2BME02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-III	*2BME03T	Engineering Mechanics	MECH	3	-	-	3	3	30	20	50	-	-	
5	ESC-III	*2BME03P	Engineering Mechanics Lab	MECH	-	-	2	1	-	-	-	-	25	25	
6	PCC-1	*2BME04T	Basics of Mechanical Engineering	MECH	2	-	-	2	2	15	10	25	-	-	
7	IKS-I	2BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-	
8	SEC-I	2BSE10P	Refer SEC Basket	ASH	-	-	4	2	-	-	-	-	50	50	
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>	
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>300</b>	
									<b>Total Marks (II Semester)</b>			<b>700</b>			





COURSE CODE				
SEM	B.Tech.	Branch	Subject S.N.	T/P
1	B	ME	01	T

Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits in skill-based courses, internship, mini-projects etc.

**B.Tech. in Mechanical Engineering (Exit Level)**

**Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits (After First Year)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	MEEEXT01P	Mechanics of Material Lab	Mech	-	-	2	1	-	-	-	-	25	25
2	Exit Course	MEEEXT02P	Manufacturing Engineering Lab	Mech	-	-	2	1	-	-	-	-	25	25
3	Exit Course	MEEEXT03P	Internship	Mech	-	-	-	6	-	-	-	-	-	200
<b>Total</b>							4	8	-	-	-	-	50	250
									<b>Total Marks (Exit Course)</b>			<b>300</b>		

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EXIT COURSE CODE			
Branch	EXIT	Subject S.N.	T/P
ME	EXT	01	T

**B.Tech. Sem-II (Electrical Engineering-Major)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory			Practical			
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-III	2BEE01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-	
2	BSC-IV	2BEE02T	Applied Chemistry	ASH	3	-	-	3	3	30	20	50	-	-	
3	BSC-IV	2BEE02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-III	2BEE03T	Analog Devices & Circuits	Electrical	3	-	-	3	3	30	20	50	-	-	
	ESC-III	2BEE03P	Analog Devices & Circuits Lab	Electrical	-	-	2	1	-	-	-	-	25	25	
5	PCC-1	2BEE04T	Electrical Measurements & Instrumentation	Electrical	2	-	-	2	2	15	10	25			
6	IKS-I	2BIK01T	Refer IKS Basket - IKS	ASH	2	-	-	2	2	15	10	25	-	-	
7	SEC-I	2BSE01P	Refer SEC Basket	Electrical	-	-	4	2	-	-	-	-	50	50	
8	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>					<b>13</b>	<b>01</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>	
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>300</b>	
									<b>Total Marks (I Semester)</b>			<b>700</b>			

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**B. Tech. in Electrical Engineering (Exit Level)**

**Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	EEEXT01P	Network Analysis	Electrical	-	-	2	1	-	-	-	-	25	25
2	Exit Course	EEEXT02P	Electrical Machines-I Lab	Electrical	-	-	2	1	-	-	-	-	25	25
3	Exit Course	EEEXT03P	Internship	Electrical	-	-	-	6	-	-	-	-	-	200
Total					-	-	-	8	-	-	-	-	50	250
Total Marks (Exit Courses)									-	-	-	-	300	

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**B.Tech. Sem-II (Electronics and Telecommunication Engineering -Major)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory			Practical			
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-III	2BET01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-	
2	BSC-IV	2BET02T	Applied Chemistry	ASH	3	-	-	3	3	30	20	50	-	-	
3	BSC-IV	2BET02P	Applied Chemistry Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-III	2BET03T	Object Oriented Programming	ETC	3	-	-	3	3	30	20	50	-	-	
5	ESC-III	2BET03P	Object Oriented Programming lab	ETC	-	-	2	1	-	-	-	-	25	25	
6	PCC-I	2BET04T	Digital Electronics Design	ETC	2	-	-	2	2	15	10	25	-	-	
7	IKS-I	2BIK01T	Refer IKS Basket	ASH	2	-	-	2	2	15	10	25	-	-	
8	SEC-I	2BSE01P	Refer SEC Basket	ETC	-	-	4	2	-	-	-	-	50	50	
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>	
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>300</b>	
									<b>Total Marks (II Semester)</b>			<b>700</b>			

COURSE CODE				
SEM	B.Tech.	Branch	Subject S.N.	T/P
<b>1</b>	<b>B</b>	<b>ET</b>	<b>01</b>	<b>T</b>

Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits (see Exit Courses) in skill-based courses, internship, mini projects etc.

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**B.Tech. in Electronics and Telecommunication Engineering (Exit Level 1)**  
**Offline/Online (ESSC-India / NSQF skill) Certification Course as below**  
**(Additional 8 Credits)**

SN	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	ETEXT01P	Electronic Sensors for Industrial applications Lab	ETC	-	-	2	1	-	-	-	-	25	25
2	Exit Course	ETEXT02P	Microcontroller and Applications Lab	ETC	-	-	2	1	-	-	-	-	25	25
3	Exit Course	ETEXT03P	Internship	ETC	-	-	-	6	-	-	-	-	-	200
				<b>Total</b>	-	-	4	8	-	-	-	-	50	250
									<b>Total Marks (Exit Courses)</b>			<b>300</b>		

EXIT COURSE CODE			
Branch	EXIT	Subject S.N.	T/P
ET	EXT	01	T

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**B.Tech. Sem-II (Artificial Intelligence and Data Science)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme						
					(Th)	TU	P		Theory				Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE	
1	BSC-III	2BAD01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-	
2	BSC-IV	2BAD02T	Engineering Physics	ASH	3	-	-	3	3	30	20	50	-	-	
3	BSC-IV	2BAD02P	Engineering Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25	
4	ESC-III	2BAD03T	Python Programming	AD	2	-	-	2	2	15	10	25	-	-	
5	ESC-III	2BAD03P	Python Programming Lab	AD	-	-	2	1	-	-	-	-	25	25	
6	PCC-1	2BAD48T	Computer Architecture and Organization	AD	3	-	-	3	3	30	20	50	-	-	
7	AEC-1	2BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-	
8	SEC-I	2BSE16P	Refer SEC Basket	AD	-	-	4	2	-	-	-	-	50	50	
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-	
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>	
									<b>Total Marks (Theory &amp; Practical)</b>			<b>400</b>		<b>300</b>	
									<b>Total Marks (II Semester)</b>			<b>700</b>			

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Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits in skill-based courses, internship, mini projects etc.

**B.Tech. Artificial Intelligence and Data Science (Exit Level)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	ADEXT01P	Operating System Lab	AD	-	-	2	1	-	-	-	-	25	25
2	Exit Course	ADEXT02P	Artificial Intelligence Lab	AD	-	-	2	1	-	-	-	-	25	25
3	Exit Course	ADEXT03P	Internship	AD	-	-	-	6	-	-	-	-	-	200
<b>Total</b>					-	-	4	8	-	-	-	-	50	250
<b>Total Marks(Exit Courses)</b>									<b>300</b>					

*R. Dhanya*

*N. G. S.*

*J. S. S.*

## B.Tech. Sem-II (Information Technology)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-III	2BIT01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-
2	BSC-IV	2BIT02T	Engineering Physics	ASH	3	-	-	3	3	30	20	50	-	-
3	BSC-IV	2BIT02P	Engineering Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-III	2BIT03T	Python Programming	IT	2	-	-	2	2	15	10	25	-	-
5	ESC-III	2BIT03P	Python Programming Lab	IT	-	-	2	1	-	-	-	-	25	25
6	PCC-1	2BIT04T	Computer Architecture and Organization	IT	3	-	-	3	3	30	20	50	-	-
7	AEC-1	2BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-
8	SEC-I	2BSE01P	Refer SEC Basket	IT	-	-	4	2	-	-	-	-	50	50
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>
<b>Total Marks (Theory &amp; Practical)</b>									<b>400</b>			<b>300</b>		
<b>Total Marks (II Semester)</b>									<b>700</b>					

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**Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits in skill-based courses, internship, mini projects etc.**

## B.Tech. Information Technology (Exit Level)

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory				Practical	
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	ITEXT01P	Data Structure Lab	IT	-	-	2	1	-	-	-	-	25	25
2	Exit Course	ITEXT02P	JAVA Programming Lab	IT	-	-	2	1	-	-	-	-	25	25
3	Exit Course	ITEXT03P	Internship	IT	-	-	-	6	-	-	-	-	-	200
<b>Total</b>					-	-	4	8	-	-	-	-	50	250
<b>Total Marks (Exit Courses)</b>									<b>300</b>					

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**NAGPUR-24.**

**B.Tech. Sem-II (Computer Science & Engineering)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	BSC-III	2BCS01T	Applied Mathematics-II	ASH	3	1	-	4	3	30	20	50	-	-
2	BSC-IV	2BCS02T	Engineering Physics	ASH	3	-	-	3	3	30	20	50	-	-
3	BSC-IV	2BCS02P	Engineering Physics Lab	ASH	-	-	2	1	-	-	-	-	25	25
4	ESC-III	2BCS03T	Python Programming	CSE	2	-	-	2	2	15	10	25	-	-
5	ESC-III	2BCS03P	Python Programming Lab	CSE	-	-	2	1	-	-	-	-	25	25
6	PCC-1	2BCS04T	Computer Architecture and Organization	CSE	3	-	-	3	3	30	20	50	-	-
7	AEC-1	2BAE01T	Refer AEC Basket	ASH	2	-	-	2	2	15	10	25	-	-
8	SEC-I	2BSE01P	Refer SEC Basket	CSE	-	-	4	2	-	-	-	-	50	50
9	CC-II	2BCC01P	Refer CC Basket	ASH	-	-	4	2	-	-	-	-	100	-
<b>Total</b>					<b>13</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>-</b>	<b>120</b>	<b>80</b>	<b>200</b>	<b>200</b>	<b>100</b>
<b>Total Marks (Theory &amp; Practical)</b>									<b>400</b>			<b>300</b>		
<b>Total Marks (II Semester)</b>									<b>700</b>					

Exit option: Award of UG Certificate in Major with 40 credits and an additional 8 credits in skill-based courses, internship, mini projects etc.

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**B.Tech. Computer Science & Engineering (Exit Level)**

S N	Course Category	Course Code	Name of Course	BoS	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
					(Th)	TU	P		Theory			Practical		
									Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	CSEXT01P	Data Structures Lab	CSE	-	-	2	1	-	-	-	-	25	25
2	Exit Course	CSEXT02P	Object Oriented Programming with JAVA Lab	CSE	-	-	2	1	-	-	-	-	25	25
3	Exit Course	CSEXT03P	Internship	CSE	-	-	-	6	-	-	-	-	-	200
<b>Total</b>					-	-	4	8	-	-	-	-	50	250
									<b>Total Marks (Exit Courses)</b>			<b>300</b>		



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**4-Years Bachelor's degree (B.Tech.) in Engg. /Tech. with  
Multidisciplinary Minor Courses**

**LIST OF INDIAN KNOWLEDGE SYSTEM COURSES (IKS)**

S. N.	Course Code	Course Name
1	1BIK01T-A / 2BIK01T-A	Indian Knowledge System
2	1BIK01T-B / 2BIK01T-B	Consciousness Studies
3	1BIK01T-C / 2BIK01T-C	Preserving Art, Culture and Tradition
4	1BIK01T-D/ 2BIK01T-D	Wellness, traditional medicines and yoga
5	1BIK01T-E/ 2BIK01T-E	Glimpses of ancient Science and Technology
6	1BIK01T-F / 2BIK01T-F	Foundation literature of Indian civilization

**LIST OF CO-CURRICULAR COURSES (CC1 and CC2)**

S. N.	Course Code	Course Name
1	1BCC01P-A / 2BCC01P-A	Yoga/ Sports Recreation
2	1BCC01P-B / 2BCC01P-B	Fundamentals of Indian Classical Dance: Kathak
3	1BCC01P-C / 2BCC01P-C	Music
4	1BCC01P-D / 2BCC01P-D	Chess
5	1BCC01P-E / 2BCC01P-E	Introduction to Language and Culture – Japanese/ Spanish/ German
6	1BCC01P-F / 2BCC01P-F	Basics of Vedic Maths
7	1BCC01P-G / 2BCC01P-G	Self-defense Essentials and Basics
8	1BCC01P-H / 2BCC01P-H	Basket Ball
9	1BCC01P-I / 2BCC01P-I	Athletics
10	1BCC01P-J / 2BCC01P-J	Painting

**LIST OF ABILITY ENHANCEMENT COURSES (AEC) OFFERED**

S. N.	Course Code	Course Name
1	1BAE01T-A / 2BAE01T-A	Professional Communication
2	1BAE01T-B / 2BAE01T-B	Business Communication Skill
3	1BAE01T-C / 2BAE01T-C	English for Professional Aptitude

**Note: IKS, CC and AEC courses are offered by Applied Science and Humanities Board**

13

**LIST OF SKILL ENHANCEMENT COURSES (SEC) -Group I  
(CE/ EE/ ME/ ETC) Offered by Departmental BOS**

S. N.	Course Code	BoS	Course Name
1	2BSE01P	Civil	Computer Aided Drawing
2	2BSE02P	Civil	Technical communication and Report Writing
3	2BSE03P	Civil	Career Development

			June 2024	1.00	Applicable for AY 2024-25 onwards
Chairman, BoS	Dean (Acad.)	Principal	Date of release	Version	

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## Annexure C:

### M. Tech. I and II Semester Scheme of Examination.

#### a) Structural Engineering, I and II Semester Scheme of Examination.

**K.D.K. College of Engineering  
Department of Civil Engineering  
Scheme for  
M.Tech. in Structural Engineering (2024-25)**

S N	Se m	Sub. Code	Subject	T/ P	Contact Hours				Cre dits	% Weighta ge		ESE Dura tion Hour s
					L	T	P	Hrs		TA **	ES E	
<b>I SEMESTER</b>												
1	1	1PGST01T	Matrix Analysis of Structures	T	4	0	0	4	4	30	70	3
2	1	1PGST02P	Lab. : Matrix Analysis of Structures	P	0	0	2	2	1	50	50	-
3	1	1PGST03T	Theory of Elasticity & Elastic Stability	T	4	0	0	4	4	30	70	3
4	1	1PGST04T	Structural Dynamics	T	4	0	0	4	4	30	70	3
5	1	1PGST05P	Lab. : Structural Dynamics	P	0	0	2	2	1	50	50	-
6	1	1PGST06T	Elective-I	T	4	0	0	4	4	30	70	3
7	1	1PGST07T	Elective-II ( open)	T	4	0	0	4	4	30	70	3
Total					20	0	4	24	22			

Elective-I	STR106	Advance Foundation Design
	STR106	Advanced Concrete Structures
	STR106	Design of Earthquake resistance Structures
Elective-II ( open)	STR107	Global Warming and Climate Change
	STR107	Road Safety Engineering

S N	Se m	Sub. Code	Subject	T/ P	Contact Hours				Cre dits	% Weightage		Du ra tion Ho urs
					L	T	P	Hrs		TA **	ESE	
<b>II SEMESTER</b>												
1	2	2PGST01T	Finite Element Method	T	4	0	0	4	4	30	70	3
2	2	2PGST02P	Lab. : Finite Element Method	P	0	0	2	2	1	50	50	-
3	2	2PGST03T	Theory of Plates & Shells	T	4	0	0	4	4	30	70	-
4	2	2PGST04T	Foundation Design	T	4	0	0	4	4	30	70	3
5	2	2PGST05P	Lab. : Steel Design	P	0	0	2	2	1	50	50	3
6	2	2PGST06T	Elective-III	T	4	0	0	4	4	30	70	3
7	2	2PGST07T	Elective-IV	T	4	0	0	4	4	30	70	3
Total					20	0	4	24	22			

Elective-III	2PGST06T	Prestressed Concrete
	2PGST06T	Advanced Steel Structures
Elective-IV	2PGST07T	Design of Earthquake resistance Structures
	2PGST07T	E II : RC Bridge Design

S N	Se m	Sub. Code	Subject	T/ P	Contact Hours				Cre dits	% Weightage		Du ra tion Ho urs
					L	T	P	Hrs		TA *	ESE	
<b>III SEMESTER</b>												
1	3	3PGST01T	Research Methodology	T	4	0	0	4	4	30	70	3
2	3	3PGST02T	Elective-V	T	4	0	0	4	4	30	70	3
2	3	3PGST03P	Project Phase-I	P	0	0	8	8	8	100	100	-
Total					4	0	8	12	16			

Elective-V	3PGST02T	Disaster Management and Mitigation
	3PGST02T	New Engineering Materials and Technology

S N	Se m	Sub. Code	Subject	T/ P	Contact Hours				Cre dits	% Weightage		Du ra tion Ho urs
					L	T	P	Hrs		TA <sup>+</sup> +	ESE	
<b>III SEMESTER</b>												
1	4	4PGST01P	Project Phase-II	P	0	0	6	6	12		200	-
Total					0	0	6	6	12			
<b>GRAND TOTAL</b>									72			

## Annexure D:

### MBA I and II Semester Scheme of Examination.

a) **Master of Business Administration, I and II Semester Scheme of Examination.**

Course Code	Category	Course Name	Practical/ Activity	Credits
1PGMB00P	Compulsory	Induction cum Foundation Course	3	Grade

SEMESTER I												
Sr. No	Course Code	Category of Subject	Course Name	Contact Hours				Evaluation Scheme			Credits	ESE Duration
				T/P	L	T	P/ Activity	Continuous Assessment	End Sem Exam	Total		
1	1PGMB01T	Core	Principles of Management	T	3	-	-	40	60	100	3	3
2	1PGMB02T	Core	Organizational Behaviour	T	3	-	-	40	60	100	3	3
3	1PGMB03T	Core	Managerial Economics	T	3	-	-	40	60	100	3	3
4	1PGMB04T	Core	Business Statistics	T	3	-	-	40	60	100	3	3
5	1PGMB05T	Core	Financial Accounting	T	3	-	-	40	60	100	3	3
6	1PGMB06T	Core	Research Methodology	T	3	-	-	40	60	100	3	3
7	1PGMB07T	Core	Entrepreneurship Development	T	3	-	-	40	60	100	2	3
8	1PGMB08T	Core	Business Legislation	T	3	-	-	40	60	100	2	3
9	1PGMB09T	Capability Enhancement	Business Communication	T	2	-	-	20	30	50	1	2
10	1PGMB10P	Skill Enhancement	MS Office Fundamentals (Lab)	P	-	-	2	20	30	50	1	-
<b>Total</b>					<b>26</b>	<b>-</b>	<b>2</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>24</b>	<b>-</b>
<b>Total Marks 1<sup>st</sup> Semester: 900</b>												

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SEMESTER II												
Sr. No	Course Code	Category of Subject	Course Name	Contact Hours				Evaluation Scheme			Credits	ESE Duration
				T/P	L	T	P/Activity	Continuous Assessment	End Sem Exam	Total		
1	2PGMB01T	Core	Fundamentals of Financial Management	T	3	-	-	40	60	100	3	3
2	2PGMB02T	Core	Fundamentals of Marketing Management	T	3	-	-	40	60	100	3	3
3	2PGMB03T	Core	Fundamentals of Human Resource Management	T	3	-	-	40	60	100	3	3
4	2PGMB04T	Core	Fundamentals of Operations Management	T	3	-	-	40	60	100	3	3
5	2PGMB05T	Core	Cost Accounting	T	3	-	-	40	60	100	3	3
6	2PGMB06T	Value Education Course	Business Ethics & Corporate Governance	T	2	-	-	20	30	50	1	2
<b>Total</b>				17	-	-	-	<b>220</b>	<b>330</b>	<b>550</b>	<b>16</b>	<b>-</b>
<b>Total Marks II<sup>nd</sup> Semester: 550</b>												

\* Exit option: Student will be eligible for the award of PG Diploma Certificate with 40 credits and an additional 8 credits (see Exit Courses) Internship & MOOC courses.

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**Exit Option: - PG Diploma**

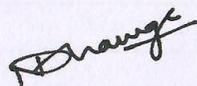
The student will be eligible to get the PG Diploma Certificate only if he completes the 8-credit course including the Summer Internship Programme and Two MOOC Certification Courses.

**Summer Internship Programme:** To opt for the Exit level, the student should undergo a SIP of 45 to 60 days along with the regular students, which will be held after the completion of Semester II Examination.

**MOOCS/Domain Specific Certification:** The student should mandatorily complete at least two certifications. The credit points earned will be transferred into the student's marksheet.

**Master of Business Administration (Exit Level)**

Exit Courses												
Sr. No	Course Code	Category of Subject	Course Name	Contact Hours				Evaluation Scheme			Credits	ESE Duration
				T/P	L	T	P/Activity	Continuous Assessment	End Sem Exam	Total		
1	MBEXT01P	Internship	Summer Internship Programme	P	-	-	6	50	50	100	6	-
2	MBEXT02T	Multidisciplinary Courses	MOOCS	T	-	-	-	-	-	200	2	-
<b>Total</b>				-	-	-	6	50	50	300	8	-
<b>Total Marks (Exit Courses): 300</b>												



## Annexure E:

### MCA I and II Semester Scheme of Examination.

a) Master of Computer Applications, I and II Semester Scheme of Examination.

KDK College of Engineering Nagpur (An Autonomous Institute)										
Department of Master of Computer Application										
Scheme										
Semester-I										
Course Code	Theory/ Practical	Teaching Scheme (Hours/ Week)		Credit	Examination Scheme					
		Th	P		Theory			Practical		
					Exam Hrs	MSE	CA	ESE	CA	ESE
1PGMC01T	Data Structure using C++	4	-	4	3	20	20	60	-	-
1PGMC02T	Database Management Systems	4	-	4	3	20	20	60	-	-
1PGMC03T	Operating System	3	-	3	3	20	20	60	-	-
1PGMC04T	Advance Scripting Using HTML & CSS	2	-	2	3	20	20	60	-	-
1PGMC05T	Elective-I	4	-	4	3	20	20	60	-	-
1PGMC06T	Research Methodology	4	-	4	3	20	20	60	-	-
1PGMC07P	Data Structure using C++ - Lab	-	2	1	-	-	-	-	50	50
1PGMC08P	Database Management System -Lab	-	2	1	-	-	-	-	50	50
1PGMC09P	HTML & CSS-Lab	-	2	1	-	-	-	-	50	50
<b>Total</b>		<b>21</b>	<b>8</b>	<b>24</b>		<b>120</b>	<b>120</b>	<b>360</b>	<b>150</b>	<b>150</b>
<b>Total Marks Theory + Practical</b>						<b>600</b>			<b>300</b>	
<b>Total Marks Ist Sem: 900</b>										

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**KDK College of Engineering Nagpur (An Autonomous Institute)**

Department of Master of Computer Application

Scheme

Semester-II

Course Code	Theory/ Practical	Teaching Scheme (Hours/ Week)		Credit	Examination Scheme					
		Th	P		Theory			Practical		
					Exam Hrs	MSE	CA	ESE	CA	ESE
2PGMC01T	Advanced Java Programming	2	-	2	3	20	20	60	-	-
2PGMC02T	Information Security	2	-	2	3	20	20	60	-	-
2PGMC03T	Software Engineering	2	-	2	3	20	20	60	-	-
2PGMC04T	Elective -2	2	-	2	3	20	20	60	-	-
2PGMC05P	Advanced Java Programming-Lab	-	2	1	-	-	-	-	50	50
2PGMC06P	Information Security-Lab	-	2	1	-	-	-	-	50	50
2PGMC07P	Software Engineering Lab	-	2	1	-	-	-	-	50	50
2PGMC08P	Internship	-	-	4	-	-	-	-	100	-
2PGMC09P	Research Paper Writing	1	-	1	-	-	-	-	100	-
2PGMC10T	Software Documentation	2	-	0	-	-	-	-	-	-
<b>Total</b>		<b>11</b>	<b>6</b>	<b>16</b>		<b>80</b>	<b>80</b>	<b>240</b>	<b>350</b>	<b>150</b>
<b>Total Marks Theory and Practical: 400</b>						<b>400</b>			<b>500</b>	
<b>Total Marks Ind Sem: 900</b>										

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### Exit OPTION

S N	Course Category	Course Code	Name of Course	Teaching Scheme (hrs.)			Total Credit	Examination Scheme					
				(Th)	TU	P		Theory			Practical		
				Exam hrs	MSE	CA	ESE	CA	ESE				
<b>I</b>	Exit Course	MCENT01P	Internship	-	-	-	8	-	-	-	-	-	200
<b>Total</b>				-	-	-	<b>8</b>	-	-	-	-	-	<b>200</b>
<b>Total Marks (Exit Course)</b>												<b>200</b>	

\*2 month Internship is Compulsory

#### Elective List-1:

Sr No	Course code	Name of Subject
<b>1</b>	1PGMC05T-A	Web Technologies
<b>2</b>	1PGMC05T-B	Computer Graphics
<b>3</b>	1PGMC05T-C	Computer Forensics

#### Elective List-2:

Sr No	Course code	Name of Subject
<b>1</b>	2PGMC04T-A	Internet of Things
<b>2</b>	2PGMC04T-B	Block chain Technology
<b>3</b>	2PGMC04T-C	Cloud Computing

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## Annexure F:

### BCA I and II Semester Scheme of Examination.

#### a) Bachelor of Computer Applications, I and II Semester Scheme of Examination.

KDK College of Engineering Nagpur (An Autonomous Institute)											
Department of Bachelor Computer Application											
Scheme											
Semester-I											
Course Code	Course Category	Theory/ Practical	Teaching Scheme (Hours/ Week)		Credit	Examination Scheme					
			Th	P		Theory			Practical		
						Exam Hrs	MSE	CA	ESE	CA	ESE
1BCA01T	DSC	Programming using C	2	-	2	3	30	20	50	-	-
1BCA01P	DSC	Programming using C-Lab	-	2	1	-	-	-	-	25	25
1BCA02T	DSC	Computer Fundamentals	2	-	2	3	30	20	50	-	-
1BCA02P	DSC	Computer Fundamentals-Lab	-	2	1	-	-	-	-	25	25
1BGO01T	GE/OE	Refer GE/OE	2	-	2	3	30	20	50	-	-
1BGO02T	GE/OE	Refer GE/OE	2	-	2	3	30	20	50	-	-
1BVS01P	VSC	Office Automation	-	4	2	3	-	-	-	25	25
1BSE01P	SEC	Refer SEC Basket	-	4	2	-	-	-	-	25	25
1BAE01T	AEC	Functional English	2	-	2	3	30	20	50	-	-
1BVE01T	VEC	Refer VEC Basket	2	-	2	3	30	20	50	-	-
1BIK01T	IKS	Refer IKS Basket	2	-	2	3	30	20	50	-	-
1BCC01P	CC	Refer CC Basket	-	4	2	-	-	-	-	100	-
<b>Total</b>			<b>14</b>	<b>16</b>	<b>22</b>	<b>-</b>	<b>210</b>	<b>140</b>	<b>350</b>	<b>200</b>	<b>100</b>
<b>Total Marks (Theory &amp; Practical)</b>							<b>700</b>			<b>300</b>	
<b>Total Marks Ist Sem:</b>							<b>1000</b>				

*AB*

*Prang*

*NEED*

KDK College of Engineering Nagpur (An Autonomous Institute)											
Department of Bachelor Computer Application											
Scheme											
Semester-II											
Course Code	Course Category	Theory/ Practical	Teaching Scheme (Hours/ Week)		Credit	Examination Scheme					
			Th	P		Theory			Practical		
						Exam Hrs	MSE	CA	ESE	CA	ESE
2BCA01T	DSC	Database Management System	2	-	2	3	30	20	50	-	-
2BCA01P	DSC	Database Management System-Lab	-	2	1	-	-	-	-	25	25
2BCA02T	DSC	Fundamentals of Data Structure	2	-	2	3	30	20	50	-	-
2BCA02P	DSC	Fundamentals of Data Structure Lab	-	2	1	-	-	-	-	25	25
2BGO01T	GE/OE	Refer GE/OE	2	-	2	3	30	20	50	-	-
2BGO02T	GE/OE	Refer GE/OE	2	-	-	-	30	20	50	-	-
2BVS01P	VSC	Fundamentals of Linux OS	-	4	2	3	-	-	-	25	25
2BSE01P	SEC	Refer SEC Basket	-	4	2	-	-	-	-	25	25
2BAE01T	AEC	Impression Management	2	-	2	3	30	20	50	-	-
2BVE01T	VEC	Refer VEC Basket	2	-	2	3	30	20	50	-	-
2BIK01T	IKS	Refer IKS Basket	2	-	2	3	30	20	50	-	-
1BCC01P	CC	Refer CC Basket		4	2	-	-	-	-	100	-
<b>Total</b>			14	16	22		210	140	350	200	100
<b>Total Marks Theory and Practical:</b>							<b>700</b>			<b>300</b>	
<b>Total Marks IInd Sem:</b>							<b>1000</b>				

*AS*

*Change*

*V. G. S.*

### Exit OPTION

S N	Course Category	Course Code	Name of Course	Teaching Scheme (hrs.)			Examination Scheme						
				(Th)	TU	P	Total Credit	Theory			Practical		
								Exam Hrs.	MSE	CA	ESE	CA	ESE
1	Exit Course	BCAXT01P	Basics of Python lab	-	-	2	1	-	-	-	-	25	25
2	Exit Course	BCAXT02P	Object Oriented Programming with JAVA lab	-	-	2	1	-	-	-	-	25	25
3	Exit Course	BCAXT03P	Internship	-	-	-	6	-	-	-	-	-	200
<b>Total</b>				<b>6</b>	<b>-</b>	<b>4</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50</b>	<b>250</b>
<b>Total Marks (Exit Course)</b>									<b>300</b>				

GE: Generic Elective/Open Elective (Choose any one)		
Course Category	Subject Code	Name of Course
GE/OE	1BGO01T-A/2BGO01T-A	Digital Electronics
	1BGO01T-B/2BGO01T-B	Principles of Marketing
	1BGO01T-C/2BGO01T-C	Computer Architecture & Organization

GE: Generic Elective/Open Elective (Choose any one)		
Course Category	Subject Code	Name of Course
GE/OE	1BGO02T-A/2BG002T-A	Web Development Technology
	1BGO02T-B/2BG002T-B	Joy of Computing using Python
	1BGO02T-C/2BG002T-C	Internet Technology

SEC: Skill Enhancement Course(Choose any one)		
Course Category	Subject Code	Name of Course
SEC	1BSE01P-A	MS-Power BI
	1BSE01P-B	Web Development Technology using HTML Lab
	1BSE01P-C	Introduction To Java

SEC: Skill Enhancement Course(Choose any one)		
Course Category	Subject Code	Name of Course
SEC	2BSE01P-A	Linux and Shell Programing
	2BSE01P-B	Data Analysis And Computer Application
	2BSE01P-C	Graphics Design

VEC: Value Education Course(Choose any one)		
Course Category	Subject Code	Name of Course
VEC	1BVE01T-A	Indian Constitution
	1BVE01T-B	Ethics in IT
	1BVE01T-C	Lifestyle for Holistic Health

VEC: Value Education Course(Choose any one)		
VEC	2BVE01T-A	Environmental Studies
	2BVE01T-B	Universal Human Values
	2BVE01T-C	Spiritual Counseling

**LIST OF INDIAN KNOWLEDGE SYSTEM COURSES (IKS)**

S. N.	Course Code	Course Name
1	1BIK01T-A / 2BIK01T-A	Indian Knowledge System
2	1BIK01T-B / 2BIK01T-B	Consciousness Studies
3	1BIK01T-C / 2BIK01T-C	Preserving Art, Culture and Tradition
4	1BIK01T-D / 2BIK01T-D	Wellness, traditional medicines and yoga
5	1BIK01T-E / 2BIK01T-E	Glimpses of ancient Science and Technology
6	1BIK01T-F / 2BIK01T-F	Foundation literature of Indian civilization

**AEC :Ability Enhancement Course(Choose any one)**

Course Category	Subject Code	Name of Course
AEC	1BAE01T	Functional English
AEC	2BAE01T	Impression Management

**LIST OF CO-CURRICULAR COURSES (CC1 and CC2)**

S. N.	Course Code	Course Name
1	1BCC01P-A / 2BCC01P-A	Yoga/ Sports Recreation
2	1BCC01P-B / 2BCC01P-B	Fundamentals of Indian Classical Dance: Kathak
3	1BCC01P-C / 2BCC01P-C	Music
4	1BCC01P-D / 2BCC01P-D	Chess
5	1BCC01P-E / 2BCC01P-E	Introduction to Language and Culture – Japanese/ Spanish/ German
6	1BCC01P-F / 2BCC01P-F	Basics of Vedic Maths
7	1BCC01P-G / 2BCC01P-G	Self-defense Essentials and Basics
8	1BCC01P-H / 2BCC01P-H	Basket Ball
9	1BCC01P-I / 2BCC01P-I	Athletics
10	1BCC01P-J / 2BCC01P-J	Painting