



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

2023-2024

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Response:

As an affiliate of RGPV, Bhopal, IIST follows strict university guidelines for its evaluation process. The institute's academic calendar aligns with the university's schedule, with important dates for internal assessments clearly outlined. A dedicated exam cell ensures smooth exam operations under the supervision of the centre superintendent.

Transparency is a key focus in internal assessments, with assessment components and weightages communicated to students during the first week through various channels, including faculty, notice boards, the website, MST notices, and the first-year induction program. MST papers are aligned with Course Outcomes (COs), Bloom's Taxonomy Levels (BL), and Program Outcomes (POs), in line with AICTE's Exam Reform Policy.

Student-centred assessment practices include evaluating MST answer sheets by course faculty, followed by student review for self-assessment. Laboratory assessments, involving internal and external evaluations, include performance, viva-voce, and lab records, ensuring transparency. Student seminars and project presentations are assessed using clear rubrics to ensure fairness.

In accordance with university guidelines, internal marks are displayed on notice boards and uploaded to the university portal. Students can access their results via the notice board or university login after a specified period, ensuring transparency and easy verification.

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1. UG — Ordinance

राजीव गांधी प्रौद्योगिकी विश्वविद्यालय
(मध्य प्रदेश का तकनीकी विश्वविद्यालय)
एयरपोर्ट रोड, गान्धीनगर, भोपाल (म.प्र.)-462033
फोन : 0755-2734913, 2678897
फैक्स : 0755-2742006
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ईमेल : registrarrgpv@gmail.com, ooregistrar@rgpv.ac.in
वेबसाइट : www.rgpv.ac.in



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(State Technological University of Madhya Pradesh)
Airport Road, Gandhi Nagar, Bhopal (M.P.) - 462033
Phone : 0755 - 2734913, 2678897
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EPABX: 0755 - 2678891, 2678881
Email : registrarrgpv@gmail.com, ooregistrar@rgpv.ac.in
Website : www.rgpv.ac.in

क्रमांक: एए-5 / शैक्षणिक / रागाप्रोवि / 2023 / 621

दिनांक: 03 / 11 / 2023

अधिसूचना

राजीव गांधी प्रौद्योगिकी विश्वविद्यालय अधिनियम 1998 की धारा 40 की उपधारा 02 में उपलब्ध प्रावधान के अनुसार माननीय कुलाधिपति जी द्वारा दिनांक 01/09/2023 को अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" में नवीन कडिका 11.0 CREDIT TRANSFER के समावेश किये जाने हेतु अनुमोदन प्रदान किया गया है।

नवीन कडिका 11.0 CREDIT TRANSFER निम्नानुसार है:-

11.0 CREDIT TRANSFER

- 11.1 A candidate from an institution affiliated with RGPV (referred to as the sending institute) may be permitted to study and earn credits from nationally renowned institutions such as IISc/IITs/NITs/IIMs/IIITs or any other institution (referred to as the receiving institute). This permission can be granted if either an MoU exists between the receiving institution and RGPV, explicitly addressing credit transfer, or if there is an MoU specifically addressing credit transfer between the sending and receiving institutions. However, prior to this arrangement, the sending institution must obtain a No Objection Certificate from RGPV for the purpose of credit transfer.
- 11.2 The mark sheets of such semesters shall be issued by RGPV or the autonomous sending institution as the case may be, indicating that the credits earned by the candidate have been transferred from the other institute under the credit transfer scheme; however, the degree shall be awarded by RGPV.
- 11.3 The admission criteria for these institutions and the process of credit transfer along with the equivalent grade shall be governed by the relevant provisions outlined in the respective MOUs. These provisions of credit transfer shall be applicable from academic session 2023-24 for all the enrolled students.
- 11.4 Credits of only those subjects will be transferred which the candidate has not previously studied in their parent institute.
- 11.5 The credits earned under the provision stated in clause 1 above shall not be considered as additional credits for the purpose of fulfilling the requirements of clause 3.5 of this ordinance.
- 11.6 The total credits earned by the candidate upon completion of the course, including the credits earned under clause 1, must adhere to the guidelines stated in clause 3.1 of this ordinance.

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11.7 Student Exchange Program/ Twinning Programs/Joint Degree Programs, etc. as prescribed by the AICTE shall be applicable to all AICTE approved affiliated institutions that have received approval from the AICTE to conduct such program(s) with an Indian/Foreign Institution/University after obtaining a No Objection Certificate from the RGPV for this purpose. Such Institution shall be required to enter into an MoU with these Indian/Foreign Institution/University and get the same approved from the RGPV. The transfer of credits and equivalent grades shall be governed by the relevant provisions outlined in the respective MOUs.

अध्यादेश का यह संशोधन शैक्षणिक सत्र 2020-2021 से प्रवेशित छात्रों पर लागू होगा। इस संशोधन के फल स्वरूप पूर्व से क्रमांक 11 में स्थापित कठिका MERIT LIST पुनः क्रमांकित हो कर कठिका क्रमांक 12 हो जावेगी।

12. MERIT LIST

12.1 Only after the declaration of the result of eighth (final) semester examination, Branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division. Have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate have scored same CGPA then all such candidates shall be included in the merit list.

यह अध्यादेश तत्काल प्रभाव से प्रभावशील किया जाता है।

आदेशानुसार,

कुलसचिव

राजीव गांधी प्रौद्योगिकी विश्वविद्यालय,
भोपाल।

पृष्ठांकन क्रमांक: एफ-5/ शैक्षणिक/2023/4622
प्रतिलिपि:-

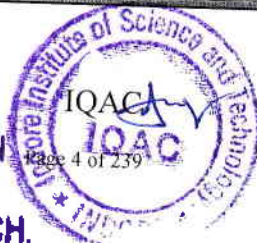
दिनांक: 03/11/2023

01. मह. महिम कुलाधिपति जी के उप सचिव, राजभवन सचिवालय, भोपाल की ओर अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" की प्रति संलग्न कर सूचनार्थ प्रेषित।
02. अतिरिक्त मुख्य सचिव, तकनीकी शिक्षा एवं कौशल विकास विभाग, मध्य प्रदेश शासन मंत्रालय, भोपाल।
03. आयुक्त, तकनीकी शिक्षा संचालनालय, सतपुड़ा भवन, भोपाल।
04. कुलपति जी के निज सचिव, की ओर माननीय कुलपति जी के अवलोकनार्थ प्रेषित।
05. कुलसचिव जी के निज सचिव, की ओर कुलसचिव जी के अवलोकनार्थ प्रेषित।
06. संचालक (यू.आई.टी.), राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
07. सनस्त विभाग प्रमुख यू.आई.टी. राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
08. प्रभारी यू.आई.टी. शाहडोल/झाबुआ, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
09. सचिव पत्रोपाधि, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।

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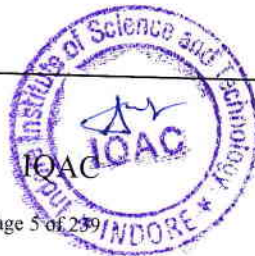
4-

10. नियंत्रक (परीक्षा) राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
11. नियंत्रक (वित्त) राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
12. प्राचार्य, यूनिवर्सिटी पोलिटेक्निक राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
13. विभागाध्यक्ष, स्कूल ऑफ इन्फार्मेशन टेक्नॉलॉजी/स्कूल ऑफ बायो टेक्नॉलॉजी/स्कूल ऑफ फार्मस्यूटिकल साइंस/स्कूल ऑफ नैनो टेक्नॉलॉजी/स्कूल ऑफ एनर्जी एण्ड इन्वायरमेंट मैनेजमेंट
14. प्रभारी ट्रेनिंग एण्ड प्लेसमेंट ऑफिसर, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
15. उपकुलसचिव, (अकादमी शाखा/पी.एच.डी.)
16. उपकुलसचिव, (केन्द्रीय भंडार/लीगल)
17. उपकुलसचिव, (उपाधि/प्रशासन)
18. प्रभारी केन्द्रीय पुस्तकालय, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
19. अधिष्ठाता छात्र कल्याण, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
20. प्रभारी कन्या/बालक छात्रावास, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
21. प्रभारी, आई.टी.सेन्टर, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय, भोपाल की ओर अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" की साफ्ट प्रति (ईमेल) इस आशय के साथ प्रेषित है कि कृपया इसे विश्वविद्यालय की वेबसाइट पर तुरन्त उपलब्ध करावें।

कुलसचिव
राजीव गांधी प्रौद्योगिकी विश्वविद्यालय,
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Established under Act No. 13 of 1998

Ordinance No.4 (D)

(Section 40 (1))

Ordinance for Bachelor of Technology 4 year Degree course

(For the Candidates admitted in 1st year on and after July, 2022)

(Under NEP 2020)

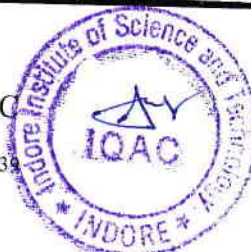
- 1.0 The first degree in Technology of four-year (eight semester) course, hereinafter called 4-YDC, shall be designated as BACHELOR OF TECHNOLOGY, in respective Branch.
- 1.1 The studies and examinations of Bachelor of Technology courses (Approved by All India Council for Technical Education, New Delhi) shall be on the basis of Marks-Cum-Credit system but semester wise and final evaluation shall be by credit based grading system.
- 1.2 This Ordinance shall also be applicable to 4-Year Part-time B.Tech. Course, which are approved by the State Government of Madhya Pradesh and AICTE.
- 2.0 **ADMISSIONS**
 - 2.1 Minimum qualification for admission into Bachelor of Technology course shall be as per the prevalent norms of the State Government of Madhya Pradesh/AICTE/UGC for the course of Bachelor of Technology course.
 - 2.2 Minimum qualification for direct admission to second year Bachelor of Technology Course termed as Lateral Entry shall be as per the prevalent norms of the Government of Madhya Pradesh/AICTE.
 - 2.3 The admission to B.Tech. course shall be governed by the rules of the technical education and training department government of Madhya Pradesh Bhopal and/or any other competent authority appointed by the state of the Government of Madhya, for this purpose.
- 3.0 **STRUCTURE of BACHELOR OF TECHNOLOGY(B.Tech.) PROGRAMME**
 - 3.1 The total credits for the award of B.Tech. degree in any branch shall lie between 160-200.
 - 3.2 The medium of instruction and examination shall normally be English throughout the course of study. However, a student can opt for writing the examination in Hindi provided that the student applies for the same at the start of the program. A student shall not be allowed to change the medium of examination during the duration of the course.
 - 3.3 Minimum credits required to earn B.Tech. Degree in particular branch shall be decided by the concerned Board of studies (BOS).

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- 3.4 The subjects to be studied in different semester of Bachelor of Technology course shall be as per the Schemes and Syllabus, approved by Board of Studies.
- 3.5 A candidate shall be permitted to earn additional credits in self learning mode through Massive Open Online Course (MOOCs). If a candidate earns 20 more credits than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, then he/she shall be eligible of Degree with Honours or additional Minor Engineering, in the same programme.
- 3.6 A list containing permitted courses for MOOCs along with their credits shall be prescribed by the respective BOS and shall be notified by the University from time to time.
- 3.7 There shall be one University Examination at the end of each semester. These examinations will be designated as follows:
- (a) During First Year
 - First Semester B.Tech., Exam and Second Semester B.Tech., Exam
 - (b) During Second Year
 - Third semester B.Tech. Exam and Fourth semester B.Tech. Exam
 - (c) During Third Year
 - Fifth semester B.Tech. Exam and Sixth semester B.Tech. Exam
 - (d) During fourth Year
 - Seventh semester B.Tech. Exam and Eighth semester B.Tech. Exam
- 3.8 The semester examination will generally be held in November-December and April-May in each year.
- 3.9 Candidates appearing as regular students for any semester examination are required to attend minimum of 75 percent of the lectures delivered and the practical classes held separately in each subject of the course of study, provided that a short fall in attendance upto 10% and a further 5% can be condoned by the principal of the college and Vice-Chancellor of the University, respectively for satisfactory reasons.
- 3.10 There will be a full examination at the end of each semester consisting of end semester examination of theory and practical subjects. The duration of examination period should not normally exceed 20 working days.
- 4.0 PROMOTION TO HIGHER SEMESTER AND YEAR**
- A candidate who has been admitted in the Technology course will be promoted to the higher year/semester in accordance with the following rules:
- 4.1 (a) A candidate who has taken admission in A-B Group and has appeared in the examination of odd semester of a particular year, shall

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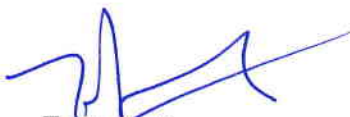
automatically be promoted to even semester of that year irrespective of failing in any number of subjects of previous semester.

(b) A candidate who has taken admission in the even semester under B-A Group and has appeared in the examination of even semester, shall automatically be promoted to next applicable odd semester of that year, irrespective of failing in any number of subjects of previous semester.

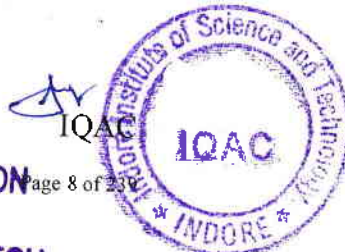
Note: The candidate who seeks admission in a new year of the course, in an odd semester of that year is said to be in A-B group, while, a candidate who seeks admission, in a new year of the course in even semester of that year is said to be in B-A group. i.e. a Candidate of A-B Group will take admission generally in July; whereas, candidate of B-A Group will take admission generally in January in the relevant academic year.

- 4.2 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0.
- 4.3 To pass a particular subject of the course the minimum required grade is D. However, the candidate should also separately score minimum of grade D in end semester examinations of theory and practical parts of the subject. For practical end semester examinations one external examiner from out side the institute shall always be there.
- 4.4 A candidate who fails to score minimum of grade D in more than five subjects (Theory and Practical of the same subject shall be treated as two different subjects) in a particular year, shall not be admitted to the next higher year. However, non-credit subjects shall not be included in this count.
- 4.5 Further, a candidate shall not be admitted in the fifth or higher semester classes unless he/she has fully passed the first year examination with minimum of CGPA of 5.0. Likewise a candidate shall not be admitted in seventh or higher semester classes unless he/she has fully passed first and second year examinations with minimum CGPA of 5.0. However, non-credit subjects shall not be included for the promotion to higher semester/s.
- 4.6 If a candidate has passed all the subjects of an applicable year but has failed to score a minimum CGPA of 5.0 as per the requirement of rule 4.2 and 4.5 above, such a candidate shall be permitted to improve requisite grade point by reappearing in maximum of three theory /practical subjects, in the ensuing examination (theory and practical of a subject shall be treated as separate subjects.). In the selected subjects the Candidate may reappear either in end semester examination/mid semester examination or in both.
- 4.7 Other than the provision of rule 4.6 above, a candidate shall not be permitted to reappear in that examination, for improvement of division/marks.

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5.0 AWARD OF CREDITS AND GRADES

- 5.1 Each subject, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of Academic Council and the Executive Council. Only approved courses can be offered during any semester.
- 5.2 A student shall be continuously evaluated for his / her academic performance in a subject through tutorial work, practicals/labwork, assignments, mid-semester test, field work/ seminars(if required) quizzes, regularity and end-semester examination, as proposed by respective Board of Studies and approved by standing committee of Academic Council and Executive Council of the University.
- 5.3 The distribution of weightage /marks for each component shall be decided by the respective of Board of Studies and approved by standing committee of Academic Council and Executive Council of the University subject to such stipulation as given under:

(a) Theory Block

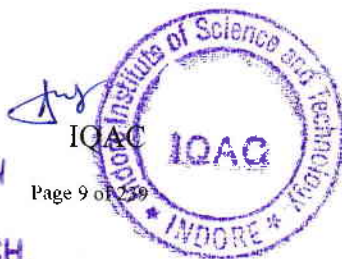
i. Quizzes, assignments tutorials, and regularity	10%
ii. Mid – semester test	20%
iii. End – semester examination-	70%
Total	100%

(b) Practical Block

i. Lab work field work/seminar, quizzes, assignments and regularity -	40%
ii. End – semester examination-	60%
Total	100%

- 5.4 Industrial training and project work shall be treated as practical subjects.
- 5.5 In Practical block, Board of Studies may keep certain subjects, without end semester examination, in such subjects, evaluation shall be based on field work/seminar, quizzes, assignments/report and regularity.

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- 5.6 For each theory subject, the institute shall be required to conduct at least two mid semester tests. The final mid semester marks shall be the average of the two higher mid semester marks.
- 5.7 Each student, registered for a course, shall be awarded grade on the basis of his/her performance. The grades to be used and their numerical equivalents are as under:

Choice Based Grading System

Grade	%Marks range (based on absolute marks system)	Grade Point	Description of performance
A ⁺	91-100	10	Outstanding
A	81-90	9	Excellent
B ⁺	71-80	8	Very Good
B	61-70	7	Good
C ⁺	51-60	6	Average
C	41-50	5	Satisfactory
D	31-40	4	Marginal
F	30 & below	0	Fail.
I		0	Incomplete.
W		0	Withdrawal

- 5.8 The Semester Grade Points Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under:-

$$SGPA = \frac{\sum_{i=1}^n c_i p_i}{\sum_{i=1}^n c_i}$$

Where c_i is the number of Credits assigned for the i^{th} subject of a Semester, p_i is the grade point earned in the i^{th} subject, where $i = 1, 2, \dots, n$, is the number of subjects in that semester for which SGPA is to be calculated.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here NC_j is the number of total Credits assigned for the j^{th} semester, SG_j is the SGPA earned in the j^{th} semester, where $j = 1, 2, \dots, m$, is the number of semesters till which CGPA is being calculated.



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Additional credits earned through MOOCS shall not be included in SGPA/CGPA calculations.

5.9 The grade sheet at end of each semester shall include SGPA of that semester and CGPA of all the semesters for which candidates has appeared in the examinations and the results of which have been declared. The final examination grade sheet at the end of final semester examination of the course shall also indicate CGPA, equivalent percentage marks and the division awarded, according to the rule as given in clause 7.0 of this ordinance.

5.10 The grade sheet of the eighth semester shall only be issued after he candidate has passed all the semester of the course.

6.0 CONDONATION OF DEFICIENCY

6.1 Deficiency up to five marks can be condoned to the best of the advantage of the student for passing the examinations. The deficiency can be condoned in maximum of two subjects (theory and practical of the same subject shall be considered as two separate subjects, for the purpose of condoning the deficiency).

6.2 A deficiency of 0.001 in CGPA can be condoned for a candidate who have secured minimum passing grades in all the theory and practical subjects but have failed to score minimum requirement of 5.0 CGPA as per clause 4.2/4.5 of this ordinance.

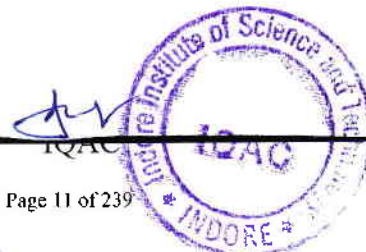
6.3 On behalf of Vice-Chancellor a grace of 0.01 in CGPA will be granted to a candidate, who at the end of the course, is missing distinction/first division by 0.01 CGPA. However, this benefit shall not be granted to a candidate who have already availed the advantage/s under clause 6.1 and/or 6.2

7.0 AWARD OF DIVISION

7.1 Division shall be awarded only after completion of the course, on the basis of integrated performance of the candidate in all the four years as per following details

CGPA Score	Divisions
CGPA \geq 7.5	First Division with Distinction
7.5 > CGPA \geq 6.5	First Division
6.5 > CGPA \geq 5.0	Second Division

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- 7.2 The conversion from grade to an equivalent percentage shall be according to the following formula applicable.

$$\text{Percentage marks scored} = \text{CGPA obtained} \times 10$$

- 7.3 A candidate who has successfully completed the course as per the provisions of this ordinance and has earned through MOOCs, 20 credits more than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, as per the provision of clause 3.5 of this ordinance, shall be awarded B.Tech Degree with Honours or additional Minor Engineering, in the same programme.

8.0 MULTIPOINT ENTRY AND EXIT CLAUSE

- 8.1 The Bachelor of Technology degree shall be of four-year duration (Eight Semesters), with multiple entry and exit options within this period.
- 8.2 The candidate can exit after the successful completion of one academic year (Two semesters), followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with the Certificate in a discipline or a field as decided by the respective Board of Studies, which will be equivalent to level 5 of National Higher Education Qualification Framework (NHEQF) / National Skills Qualification Framework (NSQF) and unified credit level of 4.5
- 8.3 The candidate can exit after the successful completion of first two academic years (Four Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Under Graduate Diploma (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 6 of NHEQF/NSQF and unified credit level of 5.
- 8.4 The candidate can exit after the successful completion of first three academic years (Six Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Bachelor of Vocational Education (B.Voc.) (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 7 of NHEQF/NSQF and unified credit level of 5.5

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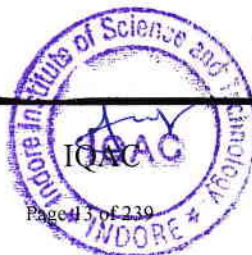
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- 8.5 A candidate shall be awarded with Bachelor of Technology Degree (in the particular discipline) after the successful completion of all the four academic years (Eight Semesters).
- 8.6 A candidate shall also be eligible for award of Bachelor of Technology with Honours or Bachelor of Technology with additional minor engineering as per the clause 3.5 of the ordinance.
- 8.7 A candidate may avail an exit option at the end of any particular academic year and can re-enter the program, as regular candidate in the next year, at the beginning of any new academic session (i.e. only during odd semesters), provided that he/she has successfully completed all the previous year/s.
- 8.8 The re-entry of such candidates are subject to the condition that the total number of candidate studying in a particular year, including such re-entering candidates, shall not exceed 10% of the sanctioned intake of the program excluding the supernumerary seats and that the gap between each exit and entry level is not more than five years.
- 8.9 Due to above clause, if the number of candidates seeking re-entry is more than the seats available than admission for the re-entering candidates shall be on the basis of their CGPA of the qualifying year.
- 8.10 If a candidate is not able to seek re-entry due to above clause than he/she can apply for re-entry during the subsequent academic sessions.
- 8.11 If a candidate is seeking re-entry in a particular year, after a gap of five years from its previous exit and is not able to get entry due to clause 8.8 of this ordinance, the condition of maximum gap of five years, as stipulated in clause 8.8 above shall not be applicable to such candidates.
- 9.0 DURATION OF COURSE**
- 9.1 There shall be at least fourteen weeks of teaching in every semester.
- 9.2 One credit shall be equal to one hour of theory/Tutorial or two hours of practical classes per week.
- 9.3 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year / semester has not been declared. However, subsequently if he/she is not able to clear qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.
- 10.0 PROVISION OF INTERNSHIP DURING FOURTH YEAR.**

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- 10.1 A candidate who has been placed in a company, which is offering an in job internship to the candidate during any or all the semesters of the fourth year, can be permitted to attend the internship, provided that the candidate shall earn credits equal to the credit of that semester (excluding the major project) through equivalent MOOCs courses on the SWAYAM portal or any other platform as approved by the competent body of the University; however, such candidates shall be required to complete the Major project and submit the thesis in the Institution.
- 10.2 The Major Project shall be pertaining to his/her internship; for such project work, candidate shall be required to take one Guide from the department and another from the organisation where he/she is undergoing the internship.
- 10.3 The decision about the equivalent courses shall be taken by the respective Board of Studies.
- 10.4 The additional credits earned under the provision of clause 3.5 shall not be counted for this purpose.
- 10.5 Clause 10.0 of this ordinance shall also be applicable for the students admitted in final year from academic session 2022-2023.

11.0 CREDIT TRANSFER

- 11.1 A candidate from an institution affiliated with RGPV (referred to as the sending institute) may be permitted to study and earn credits from nationally renowned institutions such as IISc/IITs/NITs/IIMs/IITs or any other institution (referred to as the receiving institute). This permission can be granted if either an MoU exists between the receiving institution and RGPV, explicitly addressing credit transfer, or if there is an MoU specifically addressing credit transfer between the sending and receiving institutions. However, prior to this arrangement, the sending institution must obtain a No Objection Certificate from RGPV for the purpose of credit transfer.
- 11.2 The mark sheets of such semesters shall be issued by RGPV or the autonomous sending institution as the case may be, indicating that the credits earned by the candidate have been transferred from the other institute under the credit transfer scheme; however, the degree shall be awarded by RGPV.
- 11.3 The admission criteria for these institutions and the process of credit transfer along with the equivalent grade shall be governed by the relevant provisions outlined in the respective MOUs. These provisions of credit transfer shall be applicable from academic session 2023-24 for all the enrolled students.

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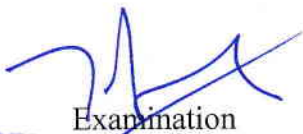
- 11.4 Credits of only those subjects will be transferred which the candidate has not previously studied in their parent institute.
- 11.5 The credits earned under the provision stated in clause 1 above shall not be considered as additional credits for the purpose of fulfilling the requirements of clause 3.5 of this ordinance.
- 11.6 The total credits earned by the candidate upon completion of the course, including the credits earned under clause 1, must adhere to the guidelines stated in clause 3.1 of this ordinance.
- 11.7 Student Exchange Program/ Twinning Programs/Joint Degree Programs, etc. as prescribed by the AICTE shall be applicable to all AICTE approved affiliated institutions that have received approval from the AICTE to conduct such program(s) with an Indian/Foreign Institution/University after obtaining a No Objection Certificate from the RGPV for this purpose. Such Institution shall be required to enter into an MoU with these Indian/Foreign Institution/University and get the same approved from the RGPV. The transfer of credits and equivalent grades shall be governed by the relevant provisions outlined in the respective MOUs.

12. MERIT LIST

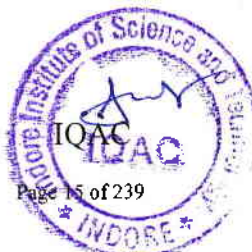
- 12.1 Only after the declaration of the result of eighth (final) semester examination, Branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division. Have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate have scored same CGPA then all such candidates shall be included in the merit list.

REGISTRAR
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
BHOPAL

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2. PG - Ordinance

राजीव गांधी प्रौद्योगिकी विश्वविद्यालय
(मध्यप्रदेश का तकनीकी विश्वविद्यालय)
एयरपोर्ट रोड, गांधीनगर, भोपाल (म.प्र.)-462033
फोन : 0755-2734913, 2678897
फैक्स : 0755-2742006
ईपीबीएस : 0755-2678891, 2678881
ईमेल : registrarrgpv@gmail.com, ooeregistrar@rgpv.ac.in
वेबसाइट : www.rgpv.ac.in



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
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EPABX: 0755 - 2678891, 2678881
Email : registrarrgpv@gmail.com, ooeregistrar@rgpv.ac.in
Website : www.rgpv.ac.in

क्रमांक: एए-5/शैक्षणिक/रागाप्रौवि/2023/621

दिनांक: 03/11/2023


अधिसूचना

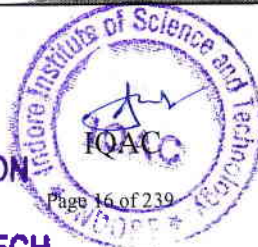
राजीव गांधी प्रौद्योगिकी विश्वविद्यालय अधिनियम 1998 की धारा 40 की उपधारा 02 में उपलब्ध प्रावधान के अनुसार माननीय कुलाधिपति जी द्वारा दिनांक 01/09/2023 को अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" में नवीन कडिका 11.0 CREDIT TRANSFER के समावेश किये जाने हेतु अनुमोदन प्रदान किया गया है।

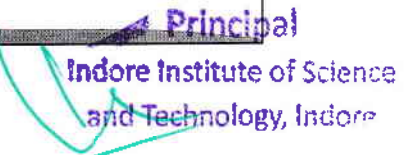
नवीन कडिका 11.0 CREDIT TRANSFER निम्नानुसार है:-

11.0 CREDIT TRANSFER

- 11.1 A candidate from an institution affiliated with RGPV (referred to as the sending institute) may be permitted to study and earn credits from nationally renowned institutions such as IISc/IITs/NITs/IIMs/IIITs or any other institution (referred to as the receiving institute). This permission can be granted if either an MoU exists between the receiving institution and RGPV, explicitly addressing credit transfer, or if there is an MoU specifically addressing credit transfer between the sending and receiving institutions. However, prior to this arrangement, the sending institution must obtain a No Objection Certificate from RGPV for the purpose of credit transfer.
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- 11.3 The admission criteria for these institutions and the process of credit transfer along with the equivalent grade shall be governed by the relevant provisions outlined in the respective MOUs. These provisions of credit transfer shall be applicable from academic session 2023-24 for all the enrolled students.
- 11.4 Credits of only those subjects will be transferred which the candidate has not previously studied in their parent institute.
- 11.5 The credits earned under the provision stated in clause 1 above shall not be considered as additional credits for the purpose of fulfilling the requirements of clause 3.5 of this ordinance.
- 11.6 The total credits earned by the candidate upon completion of the course, including the credits earned under clause 1, must adhere to the guidelines stated in clause 3.1 of this ordinance.


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- 11.7 Student Exchange Program/ Twinning Programs/Joint Degree Programs, etc. as prescribed by the AICTE shall be applicable to all AICTE approved affiliated institutions that have received approval from the AICTE to conduct such program(s) with an Indian/Foreign Institution/University after obtaining a No Objection Certificate from the RGPV for this purpose. Such Institution shall be required to enter into an MoU with these Indian/Foreign Institution/University and get the same approved from the RGPV. The transfer of credits and equivalent grades shall be governed by the relevant provisions outlined in the respective MOUs.

अध्यादेश का यह संशोधन शैक्षणिक सत्र 2020-2021 से प्रवेशित छात्रों पर लागू होगा। इस संशोधन के फल स्वरूप पूर्व से क्रमांक 11 में स्थापित कड़िका MERIT LIST पुनः क्रमांकित हो कर कड़िका क्रमांक 12 हो जावेगी।

12. MERIT LIST

- 12.1 Only after the declaration of the result of eighth (final) semester examination, Branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division. Have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate have scored same CGPA then all such candidates shall be included in the merit list.

यह अध्यादेश तत्काल प्रभाव से प्रभावशील किया जाता है।

आदेशानुसार,

कुलसचिव

राजीव गांधी प्रौद्योगिकी विश्वविद्यालय,
भोपाल।

पृष्ठांकन क्रमांक: एफ-5 / शैक्षणिक / 2023 / 4622
प्रतिलिपि:-

दिनांक: 03 / 11 / 2023

01. मह. महिम कुलाधिपति जी के उप सचिव, राजभवन सचिवालय, भोपाल की ओर अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" की प्रति संलग्न कर सूचनाार्थ प्रेषित।
02. अतिरिक्त मुख्य सचिव, तकनीकी शिक्षा एवं कौशल विकास विभाग, मध्यप्रदेश शासन मंत्रालय, भोपाल।
03. आयुक्त, तकनीकी शिक्षा संचालनालय, सतपुड़ा भवन, भोपाल।
04. कुलपति जी के निज सचिव, की ओर माननीय कुलपति जी के अवलोकनार्थ प्रेषित।
05. कुलसचिव जी के निज सचिव, की ओर कुलसचिव जी के अवलोकनार्थ प्रेषित।
06. संचालक (यू.आई.टी.), राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
07. सनस्त विभाग प्रमुख यू.आई.टी. राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
08. प्रभारी यू.आई.टी. सहडोल/झाबुआ, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
09. सचिव पत्रोपाधि, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।

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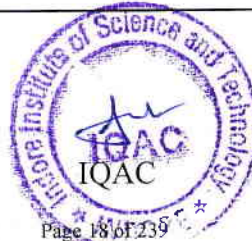
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10. नियंत्रक (परीक्षा) राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
11. नियंत्रक (वित्त) राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
12. प्राचार्य, यूनिवर्सिटी पोलीटेक्निक राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
13. विभागाध्यक्ष, स्कूल ऑफ इन्फार्मेशन टेक्नॉलॉजी/स्कूल ऑफ बायो टेक्नॉलॉजी/स्कूल ऑफ फार्मस्यूटिकल साइंस/स्कूल ऑफ नैनो टेक्नॉलॉजी/स्कूल ऑफ एनर्जी एण्ड इन्व्हायरमेंट मैनेजमेंट
14. प्रभारी ट्रेनिंग एण्ड प्लेसमेंट ऑफिसर, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
15. उपकुलसचिव, (अकादमी शाखा/पी.एच.डी.)
16. उपकुलसचिव, (केन्द्रीय भंडार/लीगल)
17. उपकुलसचिव, (उपाधि/प्रशासन)
18. प्रभारी केन्द्रीय पुस्तकालय, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
19. अधिष्ठाता छात्र कल्याण, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
20. प्रभारी कन्या/बालक छात्रावास, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय भोपाल।
21. प्रभारी, आई.टी.सेन्टर, राजीव गांधी प्रौद्योगिकी विश्वविद्यालय, भोपाल की ओर अध्यादेश क्रमांक 4(D) "Bachelor of Technology 4 year Degree course" की साफ्ट प्रति (ईमेल) इस आशय के साथ प्रेषित है कि कृपया इसे विश्वविद्यालय की वेबसाइट पर तुरन्त उपलब्ध करावें।

कुलसचिव
राजीव गांधी प्रौद्योगिकी विश्वविद्यालय,
भोपाल।


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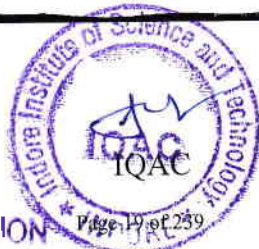
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
Established under Act No. 13 of 1998


Ordinance No.4 (D)
(Section 40 (1))

Ordinance for Bachelor of Technology 4 year Degree course
(For the Candidates admitted in 1st year on and after July, 2022)
(Under NEP 2020)

- 1.0 The first degree in Technology of four-year (eight semester) course, hereinafter called 4-YDC, shall be designated as BACHELOR OF TECHNOLOGY, in respective Branch.
- 1.1 The studies and examinations of Bachelor of Technology courses (Approved by All India Council for Technical Education, New Delhi) shall be on the basis of Marks-Cum-Credit system but semester wise and final evaluation shall be by credit based grading system.
- 1.2 This Ordinance shall also be applicable to 4-Year Part-time B.Tech. Course, which are approved by the State Government of Madhya Pradesh and AICTE.
- 2.0 **ADMISSIONS**
 - 2.1 Minimum qualification for admission into Bachelor of Technology course shall be as per the prevalent norms of the State Government of Madhya Pradesh/AICTE/UGC for the course of Bachelor of Technology course.
 - 2.2 Minimum qualification for direct admission to second year Bachelor of Technology Course termed as Lateral Entry shall be as per the prevalent norms of the Government of Madhya Pradesh/AICTE.
 - 2.3 The admission to B.Tech. course shall be governed by the rules of the technical education and training department government of Madhya Pradesh Bhopal and/or any other competent authority appointed by the state of the Government of Madhya, for this purpose.
- 3.0 **STRUCTURE of BACHELOR OF TECHNOLOGY(B.Tech.) PROGRAMME**
 - 3.1 The total credits for the award of B.Tech. degree in any branch shall lie between 160-200.
 - 3.2 The medium of instruction and examination shall normally be English throughout the course of study. However, a student can opt for writing the examination in Hindi provided that the student applies for the same at the start of the program. A student shall not be allowed to change the medium of examination during the duration of the course.
 - 3.3 Minimum credits required to earn B.Tech. Degree in particular branch shall be decided by the concerned Board of studies (BOS).


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- 3.4 The subjects to be studied in different semester of Bachelor of Technology course shall be as per the Schemes and Syllabus, approved by Board of Studies.
- 3.5 A candidate shall be permitted to earn additional credits in self learning mode through Massive Open Online Course (MOOCs). If a candidate earns 20 more credits than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, then he/she shall be eligible of Degree with Honours or additional Minor Engineering, in the same programme.
- 3.6 A list containing permitted courses for MOOCs along with their credits shall be prescribed by the respective BOS and shall be notified by the University from time to time.
- 3.7 There shall be one University Examination at the end of each semester. These examinations will be designated as follows:
- (a) During First Year
- First Semester B.Tech., Exam and Second Semester B.Tech., Exam
- (b) During Second Year
- Third semester B.Tech. Exam and Fourth semester B.Tech. Exam
- (c) During Third Year
- Fifth semester B.Tech. Exam and Sixth semester B.Tech. Exam
- (d) During fourth Year
- Seventh semester B.Tech. Exam and Eighth semester B.Tech. Exam
- 3.8 The semester examination will generally be held in November-December and April-May in each year.
- 3.9 Candidates appearing as regular students for any semester examination are required to attend minimum of 75 percent of the lectures delivered and the practical classes held separately in each subject of the course of study, provided that a short fall in attendance upto 10% and a further 5% can be condoned by the principal of the college and Vice-Chancellor of the University, respectively for satisfactory reasons.
- 3.10 There will be a full examination at the end of each semester consisting of end semester examination of theory and practical subjects. The duration of examination period should not normally exceed 20 working days.
- 4.0 PROMOTION TO HIGHER SEMESTER AND YEAR**
- A candidate who has been admitted in the Technology course will be promoted to the higher year/semester in accordance with the following rules:
- 4.1 (a) A candidate who has taken admission in A-B Group and has appeared in the examination of odd semester of a particular year, shall

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automatically be promoted to even semester of that year irrespective of failing in any number of subjects of previous semester.

(b) A candidate who has taken admission in the even semester under B-A Group and has appeared in the examination of even semester, shall automatically be promoted to next applicable odd semester of that year, irrespective of failing in any number of subjects of previous semester.


Note: The candidate who seeks admission in a new year of the course, in an odd semester of that year is said to be in A-B group, while, a candidate who seeks admission, in a new year of the course in even semester of that year is said to be in B-A group. i.e. a Candidate of A-B Group will take admission generally in July; whereas, candidate of B-A Group will take admission generally in January in the relevant academic year.

- 4.2 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0.
- 4.3 To pass a particular subject of the course the minimum required grade is D. However, the candidate should also separately score minimum of grade D in end semester examinations of theory and practical parts of the subject. For practical end semester examinations one external examiner from out side the institute shall always be there.
- 4.4 A candidate who fails to score minimum of grade D in more than five subjects (Theory and Practical of the same subject shall be treated as two different subjects) in a particular year, shall not be admitted to the next higher year. However, non-credit subjects shall not be included in this count.
- 4.5 Further, a candidate shall not be admitted in the fifth or higher semester classes unless he/she has fully passed the first year examination with minimum of CGPA of 5.0. Likewise a candidate shall not be admitted in seventh or higher semester classes unless he/she has fully passed first and second year examinations with minimum CGPA of 5.0. However, non-credit subjects shall not be included for the promotion to higher semester/s.
- 4.6 If a candidate has passed all the subjects of an applicable year but has failed to score a minimum CGPA of 5.0 as per the requirement of rule 4.2 and 4.5 above, such a candidate shall be permitted to improve requisite grade point by reappearing in maximum of three theory /practical subjects, in the ensuing examination (theory and practical of a subject shall be treated as separate subjects.). In the selected subjects the Candidate may reappear either in end semester examination/mid semester examination or in both.
- 4.7 Other than the provision of rule 4.6 above, a candidate shall not be permitted to reappear in that examination, for improvement of division/marks.

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5.0 AWARD OF CREDITS AND GRADES

- 5.1 Each subject, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of Academic Council and the Executive Council. Only approved courses can be offered during any semester.
- 5.2 A student shall be continuously evaluated for his / her academic performance in a subject through tutorial work, practicals/labwork, assignments, mid-semester test, field work/ seminars(if required) quizzes, regularity and end-semester examination, as proposed by respective Board of Studies and approved by standing committee of Academic Council and Executive Council of the University.
- 5.3 The distribution of weightage /marks for each component shall be decided by the respective of Board of Studies and approved by standing committee of Academic Council and Executive Council of the University subject to such stipulation as given under:

(a) Theory Block

i. Quizzes, assignments tutorials, and regularity	10%
ii. Mid – semester test	20%
iii. End – semester examination-	70%
Total	100%

(b) Practical Block

i. Lab work field work/seminar, quizzes, assignments and regularity -	40%
ii. End – semester examination-	60%
Total	100%

- 5.4 Industrial training and project work shall be treated as practical subjects.
- 5.5 In Practical block, Board of Studies may keep certain subjects, without end semester examination, in such subjects, evaluation shall be based on field work/seminar, quizzes, assignments/report and regularity.

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- 5.6 For each theory subject, the institute shall be required to conduct at least two mid semester tests. The final mid semester marks shall be the average of the two higher mid semester marks.
- 5.7 Each student, registered for a course, shall be awarded grade on the basis of his/her performance. The grades to be used and their numerical equivalents are as under:

Choice Based Grading System

Grade	%Marks range (based on absolute marks system)	Grade Point	Description of performance
A ⁺	91-100	10	Outstanding
A	81-90	9	Excellent
B ⁺	71-80	8	Very Good
B	61-70	7	Good
C ⁺	51-60	6	Average
C	41-50	5	Satisfactory
D	31-40	4	Marginal
F	30 & below	0	Fail.
I		0	Incomplete.
W		0	Withdrawal

- 5.8 The Semester Grade Points Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under:-

$$SGPA = \frac{\sum_{i=1}^n c_i p_i}{\sum_{i=1}^n c_i}$$

Where c_i is the number of Credits assigned for the i^{th} subject of a Semester, p_i is the grade point earned in the i^{th} subject, where $i = 1, 2, \dots, n$, n is the number of subjects in that semester for which SGPA is to be calculated.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here NC_j is the number of total Credits assigned for the j^{th} semester, SG_j is the SGPA earned in the j^{th} semester, where $j = 1, 2, \dots, m$, m is the number of semesters till which CGPA is being calculated.

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Additional credits earned through MOOCS shall not be included in SGPA/CGPA calculations.

5.9 The grade sheet at end of each semester shall include SGPA of that semester and CGPA of all the semesters for which candidates has appeared in the examinations and the results of which have been declared. The final examination grade sheet at the end of final semester examination of the course shall also indicate CGPA, equivalent percentage marks and the division awarded, according to the rule as given in clause 7.0 of this ordinance.

5.10 The grade sheet of the eighth semester shall only be issued after he candidate has passed all the semester of the course.

6.0 CONDONATION OF DEFICIENCY

6.1 Deficiency up to five marks can be condoned to the best of the advantage of the student for passing the examinations. The deficiency can be condoned in maximum of two subjects (theory and practical of the same subject shall be considered as two separate subjects, for the purpose of condoning the deficiency).

6.2 A deficiency of 0.001 in CGPA can be condoned for a candidate who have secured minimum passing grades in all the theory and practical subjects but have failed to score minimum requirement of 5.0 CGPA as per clause 4.2/4.5 of this ordinance.

6.3 On behalf of Vice-Chancellor a grace of 0.01 in CGPA will be granted to a candidate, who at the end of the course, is missing distinction/first division by 0.01 CGPA. However, this benefit shall not be granted to a candidate who have already availed the advantage/s under clause 6.1 and/or 6.2

7.0 AWARD OF DIVISION

7.1 Division shall be awarded only after completion of the course, on the basis of integrated performance of the candidate in all the four years as per following details

CGPA Score	Divisions
CGPA \geq 7.5	First Division with Distinction
7.5 > CGPA \geq 6.5	First Division
6.5 > CGPA \geq 5.0	Second Division

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- 7.2 The conversion from grade to an equivalent percentage shall be according to the following formula applicable.

$$\text{Percentage marks scored} = \text{CGPA obtained} \times 10$$

- 7.3 A candidate who has successfully completed the course as per the provisions of this ordinance and has earned through MOOCs, 20 credits more than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, as per the provision of clause 3.5 of this ordinance, shall be awarded B.Tech Degree with Honours or additional Minor Engineering, in the same programme.

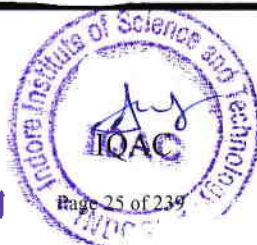
8.0 MULTIPOINT ENTRY AND EXIT CLAUSE

- 8.1 The Bachelor of Technology degree shall be of four-year duration (Eight Semesters), with multiple entry and exit options within this period.
- 8.2 The candidate can exit after the successful completion of one academic year (Two semesters), followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with the Certificate in a discipline or a field as decided by the respective Board of Studies, which will be equivalent to level 5 of National Higher Education Qualification Framework (NHEQF) / National Skills Qualification Framework (NSQF) and unified credit level of 4.5
- 8.3 The candidate can exit after the successful completion of first two academic years (Four Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Under Graduate Diploma (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 6 of NHEQF/NSQF and unified credit level of 5.
- 8.4 The candidate can exit after the successful completion of first three academic years (Six Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Bachelor of Vocational Education (B.Voc.) (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 7 of NHEQF/NSQF and unified credit level of 5.5

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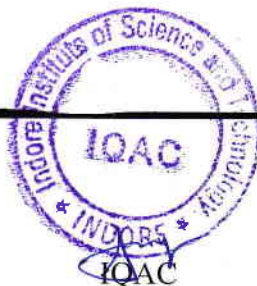


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- 8.5 A candidate shall be awarded with Bachelor of Technology Degree (in the particular discipline) after the successful completion of all the four academic years (Eight Semesters).
- 8.6 A candidate shall also be eligible for award of Bachelor of Technology with Honours or Bachelor of Technology with additional minor engineering as per the clause 3.5 of the ordinance.
- 8.7 A candidate may avail an exit option at the end of any particular academic year and can re-enter the program, as regular candidate in the next year, at the beginning of any new academic session (i.e. only during odd semesters), provided that he/she has successfully completed all the previous year/s.
- 8.8 The re-entry of such candidates are subject to the condition that the total number of candidate studying in a particular year, including such re-entering candidates, shall not exceed 10% of the sanctioned intake of the program excluding the supernumerary seats and that the gap between each exit and entry level is not more than five years.
- 8.9 Due to above clause, if the number of candidates seeking re-entry is more than the seats available than admission for the re-entering candidates shall be on the basis of their CGPA of the qualifying year.
- 8.10 If a candidate is not able to seek re-entry due to above clause than he/she can apply for re-entry during the subsequent academic sessions.
- 8.11 If a candidate is seeking re-entry in a particular year, after a gap of five years from its previous exit and is not able to get entry due to clause 8.8 of this ordinance, the condition of maximum gap of five years, as stipulated in clause 8.8 above shall not be applicable to such candidates.
- 9.0 DURATION OF COURSE**
- 9.1 There shall be at least fourteen weeks of teaching in every semester.
- 9.2 One credit shall be equal to one hour of theory/Tutorial or two hours of practical classes per week.
- 9.3 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year / semester has not been declared. However, subsequently if he/she is not able to clear qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.

10.0 PROVISION OF INTERNSHIP DURING FOURTH YEAR.


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- 10.1 A candidate who has been placed in a company, which is offering an in job internship to the candidate during any or all the semesters of the fourth year, can be permitted to attend the internship, provided that the candidate shall earn credits equal to the credit of that semester (excluding the major project) through equivalent MOOCs courses on the SWAYAM portal or any other platform as approved by the competent body of the University; however, such candidates shall be required to complete the Major project and submit the thesis in the Institution.
- 10.2 The Major Project shall be pertaining to his/her internship; for such project work, candidate shall be required to take one Guide from the department and another from the organisation where he/she is undergoing the internship.
- 10.3 The decision about the equivalent courses shall be taken by the respective Board of Studies.
- 10.4 The additional credits earned under the provision of clause 3.5 shall not be counted for this purpose.
- 10.5 Clause 10.0 of this ordinance shall also be applicable for the students admitted in final year from academic session 2022-2023.

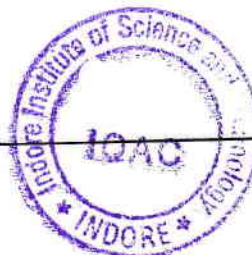
11.0 CREDIT TRANSFER

- 11.1 A candidate from an institution affiliated with RGPV (referred to as the sending institute) may be permitted to study and earn credits from nationally renowned institutions such as IISc/IITs/NITs/IIMs/IITs or any other institution (referred to as the receiving institute). This permission can be granted if either an MoU exists between the receiving institution and RGPV, explicitly addressing credit transfer, or if there is an MoU specifically addressing credit transfer between the sending and receiving institutions. However, prior to this arrangement, the sending institution must obtain a No Objection Certificate from RGPV for the purpose of credit transfer.
- 11.2 The mark sheets of such semesters shall be issued by RGPV or the autonomous sending institution as the case may be, indicating that the credits earned by the candidate have been transferred from the other institute under the credit transfer scheme; however, the degree shall be awarded by RGPV.
- 11.3 The admission criteria for these institutions and the process of credit transfer along with the equivalent grade shall be governed by the relevant provisions outlined in the respective MOUs. These provisions of credit transfer shall be applicable from academic session 2023-24 for all the enrolled students.

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- 11.4 Credits of only those subjects will be transferred which the candidate has not previously studied in their parent institute.
- 11.5 The credits earned under the provision stated in clause 1 above shall not be considered as additional credits for the purpose of fulfilling the requirements of clause 3.5 of this ordinance.
- 11.6 The total credits earned by the candidate upon completion of the course, including the credits earned under clause 1, must adhere to the guidelines stated in clause 3.1 of this ordinance.
- 11.7 Student Exchange Program/ Twinning Programs/Joint Degree Programs, etc. as prescribed by the AICTE shall be applicable to all AICTE approved affiliated institutions that have received approval from the AICTE to conduct such program(s) with an Indian/Foreign Institution/University after obtaining a No Objection Certificate from the RGPV for this purpose. Such Institution shall be required to enter into an MoU with these Indian/Foreign Institution/University and get the same approved from the RGPV. The transfer of credits and equivalent grades shall be governed by the relevant provisions outlined in the respective MOUs.

12. MERIT LIST

- 12.1 Only after the declaration of the result of eighth (final) semester examination, Branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division. Have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate have scored same CGPA then all such candidates shall be included in the merit list.

REGISTRAR
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3. Exclusive Exam Cell Order Nov 2023

Indore Institute of Science & Technology, Indore

Date: 28.11.2023

ORDER

RGPV main examination for B.Tech, & B.Pharma (Regular & EX) students is going to commence from 05 December 2023. Following faculty/staff members are assigned responsibilities for conduction of practical and theory examination.

- | | |
|-----------------------------------|----------------------------|
| 1. Dr. Keshav Patidar (Principal) | Senior Superintendent |
| 2. Dr. T.S. Arora | Centre Superintendent |
| 3. Mr. Shравan Kumar Namdeo | Dy. Superintendent |
| 4. Mr. Lokesh Aurangabadkar | Dy. Superintendent |
| 5. Mr. Mahaveer Dangi | Permanent Invigilator |
| 6. Mr. Rajesh Tiwari | Permanent Supporting Staff |
| 7. Mr. Sachin Mahajan | Permanent Supporting Staff |
| 8. Mr. Manoj Mehra | Supporting Staff |
| 9. Mr. Sanjay Dubey | Supporting Staff |

All are instructed to start the examination work immediately.


Arun S Bhatnagar
Group Advisor
Sparsh Group & SEWS

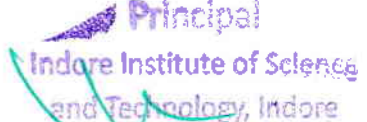
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4. Exclusive Exam Cell Order June 2024

Indore Institute of Science & Technology, Indore

Date: 09.05.2024

ORDER

RGPV main examination for B.Tech, & B.Pharm (Regular & EX) students is going to commence from 18th May 2024. Following faculty/staff members are assigned responsibilities for conduction of practical and theory examination.

- | | |
|-----------------------------------|----------------------------|
| 1. Dr. Keshav Patidar (Principal) | Senior Superintendent |
| 2. Dr. T.S. Arora | Centre Superintendent |
| 3. Mr. Shravan Kumar Namdeo | Dy. Superintendent |
| 4. Mr. Lokesh Aurangabadkar | Dy. Superintendent |
| 5. Mr. Mahaveer Dangi | Permanent Invigilator |
| 6. Mr. Rajesh Tiwari | Permanent Supporting Staff |
| 7. Mr. Sachin Mahajan | Permanent Supporting Staff |
| 8. Mr. Manoj Mehra | Supporting Staff |
| 9. Mr. Akalesh Bundela | Supporting Staff |
| 10. Mr. Sanjay Dubey | Supporting Staff |

All are instructed to start the examination work immediately.


Arun S Bhatnagar
Group Advisor
Sparsh Group & SEWS

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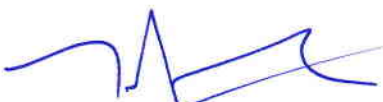


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5. Transparent in Evaluation System

A. University Academic Calendar

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(University of Technology of Madhya Pradesh)
ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024
FOR ALL DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES
(EXCEPT PHARMACY)

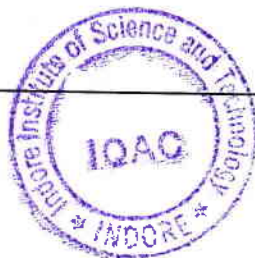
(Revised)

S.No.	Particular	Ist Semester Schedule	IInd & IVth Semester Schedule
01.	Duration of Semester	July - December 2023	January - June 2024
02.	Commencement of Classes	04 th September 2023	26 th February 2024
03.	Student Induction Program (SIP) 21 Days Undergraduate	04 th September 2023	---
04.	I Sessional Exany/Mid/Sem.	16 th - 21 st October 2023	01 st - 06 th April 2024
05.	Dussehra Holiday	22 nd - 25 th Oct. 2023	---
07.	Diwali Vacation	11 th - 15 th Nov. 2023	---
05.	II Sessional Exany/Mid/Sem.	28 th Nov. - 04 th Dec. 2023	08 th - 16 th May 2024
06.	Submission of Examination Form i. Without late fee ii. With Late Fee	01 st - 16 th December, 2023 18 th - 23 rd December 2023	20 th - 30 th June 2024 01 st - 08 th July 2024
07.	Last date of Teaching	16 th December 2023	27 th June 2024
08.	Submission of internal marks to University	Upto 23 rd December 2023	Upto 06 th July 2024
09.	End Semester Examination (Theory & Practical)	26 th Dec. 2023 - 25 th Jan. 2024	09 th - 31 st July 2024
10.	Internship/End Sem. Break	---	---
11.	Date of Result Declaration	End of February 2024	End of August 2024

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- In case of late admission of lateral admission students, the institutions are advised to conduct extra classes to complete the syllabus within stipulated time.
- Winter vacation applicable for students only.

Controller (Exam)
 Rajiv Gandhi Proudyogiki
 Vishwavidyalaya, Bhopal



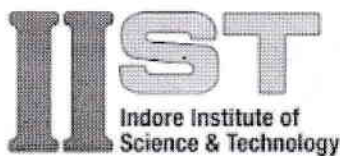
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2023-2024



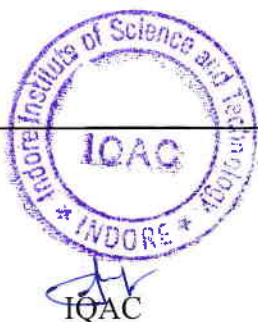
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA (University of Technology of Madhya Pradesh) ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024 FOR ALL DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES (PHARMACY)

S. No.	Particular	II Semester B. Pharm & M. Pharm
01.	Duration of Semester	January - June 2024
02.	Commencement of Classes	18 th April 2024
03.	I Sessional Exam/Mid/Sem.	28 th May - 01 st June 2024
04.	II Sessional Exam/Mid/Sem.	25 th June - 29 th June 2024
05.	Dussehra Holiday	-----
06.	Submission of Examination Form i. Without late fee ii. With Late Fee	01 st - 16 th July 2024 17 th - 29 th July 2024
07.	Diwali Vacation	-----
08.	Last date of Teaching	27 th July 2024
09.	Submission of Mid Semester & Sessional Marks to University	22 nd - 31 st July 2024
10.	End Semester Examination (Theory & Practical)	01 st - 14 th August 2024
11.	Submission of Practical marks to University	On the date of Practical Examination
12.	End Semester Break / Internship	16 th - 30 th August 2024
13.	Winter* Vacation for teachers	16 th - 30 th August 2024
14.	Declaration of Result	In the Month of August 2024

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- In case of late admission of lateral admission students, the institutions are advised to conduct extra classes to complete the syllabus within stipulated time.
- * Winter vacation applicable for students only.

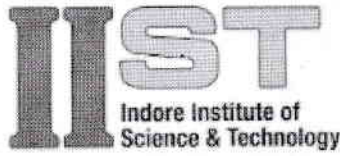
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2023-2024

14/07/2023



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA

(University of Technology of Madhya Pradesh)

ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024 [REVISED]

FOR ALL DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES

S. No.	Particular	III & V Semester Schedule	II Semester (Except B.Pharm & M.Pharm) & IV Semester Schedule
01.	Duration of Semester	July - December 2023	January - June 2024
02.	Commencement of Classes	01 st August 2023	19 th February 2024
03.	I Sessional Exam/Mid/Sem.	15 th - 22 nd Sep. 2023	01 st - 06 th April 2024
04.	II Sessional Exam/Mid/Sem.	26 th Oct. - 01 st Nov. 2023	01 st - 07 th May 2024
05.	Dussehra Holiday	22 nd - 25 th Oct. 2023	----
06.	Submission of Examination Form i. Without late fee ii. With Late Fee	01 st - 17 th Nov. 2023	06 th - 23 rd May 2024
		18 th - 27 th Nov. 2023	24 th - 29 th May 2024
07.	Diwali Vacation	11 th - 15 th Nov. 2023	----
08.	Last date of Teaching	18 th November 2023	30 th May 2024
09.	Submission of Mid Semester & Sessional Marks to University	16 th - 26 th Nov. 2023	22 nd - 31 st May 2024
10.	End Semester Examination (Theory & Practical)	28 th Nov. - 27 th Dec. 2023	03 rd June - 05 th July 2024
11.	Submission of Practical marks to University	On the date of Practical Examination	On the date of Practical Examination
12.	End Semester Break / Internship	----	06 th - 20 th July 2024
13.	Winter* Vacation for teachers	23 rd - 31 st December 2023	06 th - 20 th July 2024
14.	Declaration of Result	In the Month of January 2024	In the Month of August 2024

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- In case of late admission of lateral admission students, the institutions are advised to conduct extra classes to complete the syllabus within stipulated time.
- * Winter vacation applicable for students only.

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2023-2024



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(University of Technology of Madhya Pradesh)
ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024
FOR DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES

S.No.	Particular	VII & IX Semester Schedule	VI, VIII & X Semester Schedule
01.	Duration of Semester	July - December 2023	January-June 2024
02.	Commencement of Classes	03 rd July 2023	05 th January 2024
03.	I Sessional Exam/Mid/Sem.	21 st to 26 th August 2023	12 th - 17 th February 2024
04.	II Sessional Exam/Mid/Sem.	16 th to 21 st October 2023	18 th to 23 rd March 2024
05.	Dussehra Holiday	22 nd to 25 th October 2023	---
06.	Submission of Examination Form i. Without late fee ii. With Late Fee	25 th Oct. - 13 th Nov. 2023	01 st - 19 th April 2024
		13 th - 19 th November 2023	20 th - 26 th April 2024
07.	Diwali Vacation	11 th - 15 th November 2023	---
08.	Last date of Teaching	10 th November 2023	19 th April 2024
09.	Submission of Mid Semester & Sessional Marks to University	13 th to 20 th November 2023	20 th - 27 th April 2024
10.	End Semester Examination (Theory & Practical)	20 th Nov. - 22 nd Dec. 2023	30 th April - 31 st May 2024
11.	Submission of Practical marks to University	On the date of Practical Examination	On the date of Practical Examination
12.	End Semester Break / Internship	---	01 st - 30 th June 2024
13.	Winter*/Summer Vacation for Teachers	23 rd to 31 st December 2023	01 st - 30 th June 2024
14.	Declaration of result of final Year	In the Month of January 2024	In the Month of June 2024

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- * Winter vacation applicable for students only.

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B. Institute Academic Calendar Dec 2023

Indore Institute of Science and Technology

Academic Calendar of 2023-24 (Session: July - Dec. 2023)

July

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

October

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Events (Tentative)

Commencement of Classes
 1st Year - 1st Sem. 5th September 2023
 2nd Year - 3rd Sem. and 3rd Year - 5th Sem. 1st August 2023
 4th Year - 7th Sem. 3rd July 2023

Last date for Semester Registration
 2nd Year - 3rd Sem. & 3rd Year - 5th Sem. 14th Aug., 2023
 4th Year - 7th Sem. 11th July, 2023

Attendance
 Short attendance notice and letter to parents after 15 days from the commencement of classes.
 Display of 2nd short attendance list and intimation to Parents 3rd and 5th Sem. On 07th Sept. 2023 and 1st Sem. On 07th Oct. 2023
 Display of 3rd short attendance list and intimation to Parents 3rd and 5th Sem. On 30th Sept. 2023 and 1st Sem. On 01st Nov. 2023

Internal Assessment
Centralized MST-I (Theory & Practical)
 1st Sem. 16th - 21st Oct. 2023*
 3rd & 5th Sem. 15th - 22nd Sept. 2023
 7th Sem. 21st - 26th Aug. 2023
 Display of MST-I Result 1st Sem.-2nd Nov., 3rd & 5th Sem. - 30th Sept. & 7th Sem.-1st Sept. 2023

Centralized MST-II (Theory & Practical)
 1st Sem. 21st - 25th Nov. 2023*
 3rd & 5th Sem. 26th Oct. - 1st Nov. 2023
 7th Sem. 16th - 21st Oct. 2023
 Display of MST-II Result 1st Sem.-1st Dec., 3rd & 5th Sem.- 10th Nov. and 7th Sem.-02nd Nov. 2023
 Class Test/Quizzes to be conducted before each MST

Submission of Mid Semester & Sessional Marks to University
 1st Sem. - 08th Dec. 2023*, 3rd & 5th Sem. - 26th Nov. and 7th Sem. - 20th Nov. 2023

Submission of Practical marks to University - On the date of Practical Exam.

Event (Extra Curriculum & Sports activities)
 Apratim Sports - 2023 (Inter School Sports activities) 30th, 31st Oct. & 1st Nov., 2023
 Apratim Pragma - 2023 (1. Model Presentation, 2. Hackathon) 4th to 5th Nov., 2023
 (3. GK Competition) 1st to 5th Nov., 2023
 Institute level (Inter Branch Sports) 21st - 26th Nov., 2023*

End of Teaching
 1st Sem. - 30th Nov., 3rd and 5th Sem. - 18th Nov. & 7th Sem. - 10th Nov. 2023.

University Exam
 3rd & 5th Sem. Theory and Practical Examination 28th Nov. - 27th Dec., 2023
 7th Sem. 20th Nov. - 22nd Dec., 2023

Online submission of Examination form to university
 1st, 3rd & 5th Sem. - 17th Nov. and 7th Sem. till 13th Nov. 2023 (Without late fee)*

*All Dates are subjected to change as per University guidelines & schedule.
 Two Industry visit & Two Expert lectures for each department is mandatory.
 Sports Activity - On all working Saturday & RGPV Sports Activities will be as per University Sports Calendar.

List of Holidays for the session (July to Dec. - 2023)

Moharram	29/07/2023	Dussehra	24/10/2023	Deepavali Vacation	From 11 th Nov. to 14 th Nov. 2023
Independence Day	15/08/2023	MV Jyoti	28/10/2023		
Raksha Bandhan	30/08/2023	Bhru Manika Jay.	15/11/2023		
Jyotirmahati	07/09/2023	Santosh Jayanti	27/11/2023		
Milad Un Nabi	28/09/2023	N.Mas	25/12/2023		
Gandhi Jayanti	02/10/2023				

**Local holiday (Date after Anant chaturdashi on 29/09/2023)
 Day after Dusshera on 25/10/2023, as per University Administration*

Dr. Keshav Patidar
Principal

Shri Arun S Bhatnagar IIS
Group Advisor (SPARSH & SEWS)

(Signature)
Examination

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R.G.P.V. EXAMINATION

INDORE INSTITUTE OF SCIENCE & TECH.

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(Signature)
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C. Institute Academic Calendar June 2024

Indore Institute of Science and Technology
Academic Calendar of 2023-24 (Session: Jan. - June 2024)

January						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

March						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Events (Tentative)

Commencement of Classes
1st Year – 2nd Sem. and 2nd Year – 4th Sem. 19th Feb. 2024*
3rd Year – 6th Sem. 05th Jan. 2024*
4th Year – 8th Sem. 02nd Jan. 2024*

Last date for Semester Registration
1st Year – 2nd Sem. & 2nd Year – 4th Sem. 26th Feb. 2024*
3rd Year – 6th Sem. & 4th Year – 8th Sem. 15th Jan. 2024*

Attendance
Display of 1st short attendance list and intimation to Parents 2nd & 4th Sem. on 11th March 2024 and 6th Sem. on 05th Feb. 2024
Display of 2nd short attendance list and intimation to Parents 2nd & 4th Sem. on 15th April 2024 and 6th Sem. on 04th March 2024

Internal Assessment
Centralized MST-I (Theory & Practical)
2nd Sem. & 4th Sem. 15th – 21st March 2024*
6th Sem. 22nd – 28th Feb. 2024*
8th Sem. 12th – 17th Feb. 2024*
Display of MST-I Result 2nd & 4th Sem. 28th March, 6th Sem. 07th March, 8th Sem. 23rd Feb. 2024
Centralized MST-II (Theory & Practical)
2nd Sem. & 4th Sem. 22nd – 27th April 2024*
6th Sem. & 8th Sem. 18th – 23rd March 2024*
Display of MST-II Result 2nd & 4th Sem. 3rd May, 6th Sem. & 8th Sem. 5th April. 2024
Class Test/Quizzes to be conducted before each MST.
Submission of Mid Semester & Sessional Marks to University.
2nd & 4th Sem. upto 25th May, 6th Sem. 15th–26th April & 8th Sem. 08th 20th–27th April 2024
Submission of Practical marks to University – On the date of Practical Exam.
Event (Extra Curriculum & Sports activities)
Institute level (Inter Branch Sports activities) 08th to 10th Feb. 2024*
Tech-Fest & Cultural events 29th Feb. to 02nd March 2024*

End of Teaching
2nd & 4th Sem. 17th May 2024, 6th Sem. 25th April 2024, 8th Sem. 19th April 2024.

End Semester Examination. (Theory and Practical)
1st Year – 2nd Sem. and 2nd Year – 4th Sem. 28th May – 21st June 2024*
3rd Year – 6th Sem. 25th April – 31st May 2024*
4th Year – 8th Sem. 30th April – 31st May 2024*

Internship/End Semester Break.
1st Year – 2nd Sem. and 2nd Year – 4th Sem. 22nd June – 07th July 2024*
3rd Year – 6th Sem. 01st – 30th June 2024*

*All Dates are subjected to change as per University guidelines & schedule.
Two Industry visit & Two Expert lectures for each department is mandatory.
Sports Activity: On all working Saturday & RGPV Sports Activities will be as per University Sports Calendar.

Date	Occasion	Date	Occasion
01/01/2024	Cherickhand	10/04/2024	
26/01/2024	Did-ul-Fitr	11/04/2024	
24/02/2024	Ram Navami	17/04/2024	
08/03/2024	Parashuram Jayanti	10/05/2024	
25/03/2024	Bodhi Parvina	23/05/2024	
29/03/2024	Eid ul-Adha	17/06/2024	
09/04/2024	Dr. Ambedkar Jayanti on 14 th April 2024		
	Dr. Ambedkar Jayanti on 21 st April 2024 (Good Friday)		

IQAC Coordinator
IIST, Indore

Dr. Keshav Pandar
Principal, IIST

Shri Arun S Bhatnagar
Group Advisor
SPARSH & SEWS

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D. Mention in Scheme provided by Affiliating University (UG)

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)
W.E.F. JULY 2018
GROUP A: (CS, IT, EE, EX, EI, FT, AT, MI, BT, & BM)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards classes will start													
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT103	ISMC-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Samrath Internship (Rural Outreach) (100Hrs)				15	10	25	-	-	4	2
Total				350	100	50	150	100	750	13	1	14	21

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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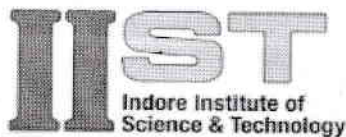


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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)
(W.E.F. JULY 2018)
GROUP B: (AU, ME, IP, CE, IEM, TX, EC, & CM)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/Assignment	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards classes will start													
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-1	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	ISMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLE-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
Total				350	100	50	150	100	750	14	2	10	21

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula

II Semester (Group B)

Bachelor of Technology (B.Tech.)

W.E.F. JULY 2018

GROUP B: (AU, ME, IP, CE, IEM, TX, EC, & CM)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.	Lab work & Sessional					
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT103	DSMG-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Summer Internship Urmal Bhazat Abhyas (100 hrs) Rural Outreach				15	10	25	-	-	4	2
Total				350	100	50	150	100	750	13	1	14	21

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
New Scheme Based On AICTE Flexible Curricula
B.Tech. First Year

Branch- Common to All Disciplines

BT101	Engineering Chemistry	3L-0T-2P	4 Credits
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Course Contents:

- (i) **Water – Analysis, Treatments and Industrial Applications (4 Lectures)**
Sources, Impurities, Hardness & its units, Determination of hardness by EDTA method, Alkalinity & It's determination and related numerical problems.
- (ii) **Boiler problem & softening methods (4 Lectures)**
Boiler troubles (Sludge & Scale, Priming & Foaming, Boiler Corrosion, Caustic Embrittlement), Softening methods (Lime-Soda, Zeolite and Ion Exchange Methods) and related numerical problems.
- (iii) **Lubricants and Lubrication (4 Lectures)**
Introduction, Mechanism of lubrication, Classification of lubricants, significance & determination of Viscosity and Viscosity Index, Flash & Fire Points, Cloud & Pour Points, Aniline Point, Acid Number, Saponification Number, Steam Emulsification Number and related numerical problems.
- (iv) **Polymer & polymerization (4 Lectures)**
Introduction, types of polymerisation, Classification, mechanism of polymerisation (Free radical & Ionic polymerization), Thermoplastic & Thermosetting polymers Elementary idea of Biodegradable polymers, preparation, properties & uses of the following polymers- PVC, PMMA, Teflon, Nylon 6, Nylon 6:6, Polyester phenol formaldehyde, Urea- Formaldehyde, Buna N, Buna S, Vulcanization of Rubber.
- (v) **Phase equilibrium and Corrosion (5 Lectures)**
Phase diagram of single component system (Water) Phase diagram of binary Eutectic System (Cu-Ag.) Corrosion: Types, Mechanisms & prevention.
- (vi) **Spectroscopic techniques and application (6 Lectures)**
Principle, Instrumentation & Applications, electronics spectroscopy, Vibrational & Rotational Spectroscopy of diatomic molecules.
- (vii) **Periodic properties (4 Lectures)**
Effective Nuclear Charge, Variations: s, p, d & f Orbital energies of atoms in periodic table, Electronics Configuration, atomic & ionic sizes, electron affinity & electro negativity, Polarizability & Oxidation States.

Course Outcomes

The concepts developed in this course will aid in quantification of several concepts in chemistry that have been introduced at the 10+2 levels in schools. Technology is being increasingly based on the electronic, atomic and molecular level modifications.

Quantum theory is more than 100 years old and to understand phenomena at nanometer levels, one has to base the description of all chemical processes at molecular levels. The course will enable the student to:

- Analyse microscopic chemistry in terms of atomic and molecular orbitals and intermolecular forces.
- Rationalise bulk properties and processes using thermodynamic considerations.
- Distinguish the ranges of the electromagnetic spectrum used for exciting different molecular

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- energy levels in various spectroscopic techniques
- Rationalise periodic properties such as ionization potential, electronegativity, oxidation states and electronegativity.
- List major chemical reactions that are used in the synthesis of molecules.

Practical List

NOTE: At least 8 of the following core experiments must be performed during the session.

- 1. Water testing**
 - (i) Determination of Total hardness by Complexometric titration method.
 - (ii) Determination of mixed alkalinity
 - a) OH & CO₃
 - b) CO₃ & HCO₃
 - (iii) Chloride ion estimation by Argentometric method.
- 2. Fuels & Lubricant testing:**
 - (i) Flash & fire points determination by
 - a) Pensky Martin Apparatus.
 - b) Abel's Apparatus
 - c) Cleveland's open cup Apparatus
 - d) Calorific value by bomb calorimeter.
 - (ii) Viscosity and Viscosity index determination by
 - a) Redwood viscometer No.1
 - b) Redwood viscometer No.2
 - (iii) Proximate analysis of coal
 - a) Moisture content
 - b) Ash content
 - c) Volatile matter content
 - d) Carbon residue
 - (iv) Steam emulsification No & Anline point determination
 - (v) Cloud and Pour point determination of lubricating oil
- 3. Alloy Analysis**
 - (i) Determination of percentage of Fe in an iron alloy by redox titration using N-Phenyl anthranilic acid as internal indicator.
 - (ii) Determination of Cu and or Cr in alloy by Iodometric Titration.
 - (iii) Determination of % purity of Ferrous Ammonium Sulphate & Copper Sulphate.

Reference Books :

- 1 Chemistry in Engineering and Technology - Vol.1 & 2 Kuriacose and Rajaram , McGraw Hill Education
- 2 Fundamental of Molecular Spectroscopy C.N. Banwell , McGraw Hill Education
- 3 Engineering Chemistry – B.K. Sharma, Krishna Prakashan Media (P) Ltd., Meerut.
- 4 Basics of Engineering Chemistry – S.S. Dara & A.K. Singh, S. Chand & Company Ltd., Delhi.
- 5 Applied Chemistry – Theory and Practice. O.P. Viramani, A.K. Narula, New Age International Pvt. Ltd, Publishers, New Delhi.
- 6 Elementary Spectroscopy, Y.R. Sharma, S. Chand Publishing
- 7 Polymer Science, Vasant R. Gowariker, N. V. Viswanathan, Jayadev Sreedhar, New Age International Pvt. Ltd
- 8 Advanced Inorganic Chemistry, G.R. Chatwal, Goal Publishing house
- 9 Engineering Chemistry (NPTEL Web-book), Kamaluddin and M.S. Krishna



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New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year (I Semester)

Branch- Common to All Disciplines

BT102	MATHEMATICS-I	3L-1T-0P	4 Credits
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OBJECTIVES: The objective of this course is to familiarize the prospective engineers with techniques in calculus, multivariate analysis and linear algebra. It aims to equip the students with standard concepts and tools at an intermediate to advanced level that will serve them well towards tackling more advanced level of mathematics and applications that they would find useful in their disciplines. More precisely, the objectives are:

- To introduce the idea of applying differential and integral calculus to notions of curvature and to improper integrals. Apart from some applications it gives a basic introduction on Beta and Gamma functions.
- To introduce the fallouts of Rolle's Theorem that is fundamental to application of analysis to Engineering problems.
- To develop the tool of power series and Fourier series for learning advanced Engineering Mathematics.
- To familiarize the student with functions of several variables that is essential in most branches of engineering.
- To develop the essential tool of matrices and linear algebra in a comprehensive manner.

Course Contents:

Module 1: Calculus: (10 hours): Rolle's theorem, Mean Value theorems, Expansion of functions by Mc. Laurin's and Taylor's for one variable; Taylor's theorem for function of two variables, Partial Differentiation, Maxima & Minima (two and three variables), Method of Lagrange's Multipliers.

Module 2: Calculus: (8 hours): Definite Integral as a limit of a sum and its application in summation of series; Beta and Gamma functions and their properties; Applications of definite integrals to evaluate surface areas and volumes of revolutions. Multiple Integral, Change the order of the integration, Applications of multiple integral for calculating area and volumes of the curves.

Module 3: Sequences and series: (6 hours): Convergence of sequence and series, tests for convergence; Power series, Taylor's series, series for exponential, trigonometric and logarithm functions; Fourier series; Half range sine and cosine series, Parseval's theorem.

Module 4: Vector Spaces (8 hours): Vector Space, Vector Sub Space, Linear Combination of Vectors, Linearly Dependent, Linearly Independent, Basis of a Vector Space, Linear Transformations.

Module 5: Matrices (8 hours): Rank of a Matrix, Solution of Simultaneous Linear Equations by Elementary Transformation, Consistency of Equation, Eigen Values and Eigen Vectors, Diagonalization of Matrices, Cayley-Hamilton theorem and its applications to find inverse.

Textbooks/References:

- G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002.
- Erwin Kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
- Veerarajan T., Engineering Mathematics for first year, Tata McGraw-Hill, New Delhi, 2008.
- Ramana B.V., Higher Engineering Mathematics, Tata McGraw Hill New Delhi, 11th Reprint, 2010.
- D. Poole, Linear Algebra: A Modern Introduction, 2nd Edition, Brooks/Cole, 2005.
- N.P. Bali and Manish Goyal, A text book of Engineering Mathematics, Laxmi Publications, Reprint, 2008.
- B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 36th Edition, 2010.



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New Scheme Based On AICTE Flexible Curricula

B.Tech. First Year

Branch- Common to All Disciplines

BT103	English for Communication	3L-0T-2P	4 Credits
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COURSE CONTENTS:

Unit-I

Identifying Common errors in writing: Articles, Subject-Verb Agreement, Prepositions, Active and Passive Voice, Reported Speech: Direct and Indirect, Sentence Structure.

Unit-II

Vocabulary building and Comprehension:

Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives, synonyms, antonyms, Reading comprehension.

Unit-III

Communication:

Introduction, Meaning and Significance, Process of Communication, Oral and Written Communication, 7 e's of Communication, Barriers to Communication and Ways to overcome them, Importance of Communication for Technical students, nonverbal communication.

Unit-IV

Developing Writing Skills:

Planning, Drafting and Editing, Precise Writing, Précis, Technical definition and Technical description, Report Writing: Features of writing a good Report, Structure of a Formal Report, Report of Trouble, Laboratory Report, Progress Report.

Unit-V

Business Correspondence:

Importance of Business Letters, Parts and Layout; Application, Contents of good Resume, guidelines for writing Resume, Calling/ Sending Quotation, Order, Complaint, E-mail and Tender.

Books Recommended:

1. 'Technical Communication : Principles and practice', Meenakshi Raman and Sangeeta Sharma (Oxford)
2. 'Effective Business Communication', Krizan and merrier (Cengage learning)
3. 'Communication Skill, Sanjay Kumar and pushlata, OUP2011
4. "Practical English Usage Michael Swan OLP, 1995.
5. "Exercises in spoken English Parts I-III CIEFL, Hyderabad, Oxford University Press
6. On writing well, William Zinsser, Harper Resource Book 2001.
7. Remedial English Grammar, F.T. Wood, Macmillan2007.

Course Outcomes:

The student will acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.

Communicative Language Laboratory:

Course objective: The language laboratory focuses on the practice of English through audio-visual aids and Computer software. It intends to enable the students to speak English correctly with confidence and intends to help them to overcome their inhibitions and self-consciousness while speaking in English.

Topics to be covered in the Language laboratory sessions:

1. Listening Comprehension.
2. Pronunciation, Intonation, Rhythm
3. Practising everyday dialogues in English
4. Interviews.
5. Formal Presentation

Final Assessment should be based on assignment, assessment, presentation and interview of each candidate.



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Branch- Common to All Disciplines

BT104	Basic Electrical & Electronics Engineering	2L-0T-2P	3Credits
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Course Contents:

Unit- I :

D.C. Circuits: Voltage and current sources, dependent and independent sources, Units and dimensions, Source Conversion, Ohm's Law, Kirchhoff's Law, Superposition theorem, Thevenin's theorem and their application for analysis of series and parallel resistive circuits excited by independent voltage sources, Power & Energy in such circuits, Mesh & nodal analysis, Star Delta transformation & circuits.

Unit – II :

1- phase AC Circuits: Generation of sinusoidal AC voltage, definition of average value, R.M.S. value, form factor and peak factor of AC quantity, Concept of phasor, Concept of Power factor, Concept of impedance and admittance, Active, reactive and apparent power, analysis of R-L, R-C, R-L-C series & parallel circuit

3-phase AC Circuits: Necessity and advantages of three phase systems, Meaning of Phase sequence, balanced and unbalanced supply and loads, Relationship between line and phase values for balanced star and delta connections, Power in balanced & unbalanced three-phase system and their measurements

Unit – III : Magnetic Circuits: Basic definitions, magnetization characteristics of Ferro magnetic materials, self inductance and mutual inductance, energy in linear magnetic systems, coils connected in series, AC excitation in magnetic circuits, magnetic field produced by current carrying conductor, Force on a current carrying conductor, Induced voltage, laws of electromagnetic Induction, direction of induced E.M.F.

Single phase transformer- General construction, working principle, e.m.f. equation, equivalent circuits, phasor diagram, voltage regulation, losses and efficiency, open circuit and short circuit test

Unit IV:

Electrical Machines: Construction, Classification & Working Principle of DC machine, induction machine and synchronous machine, Working principle of 3-Phase induction motor, Concept of slip in 3- Phase induction motor, Explanation of Torque-slip characteristics of 3-Phase induction motor, Types of losses occurring in electrical machines, Applications of DC machine, induction machine and synchronous machine.

Unit V :

Basic Electronics: Number systems & Their conversion used in digital electronics, De Morgan's theorem, Logic Gates, half and full adder circuits, R-S flip flop, J-K flip flop, Introduction to Semiconductors, Diodes, V-I characteristics, Bipolar junction transistors (BJT) and their working, introduction to CC, CB & CE transistor configurations, different configurations and modes of operation of BJT

Course outcomes:

The final outcome of the subject will result into an enhancement in understanding the basic concepts of Core Electrical Engineering subjects. The topics covered under this subject will help to enhance the basic understanding of Electrical machines and power systems and basic electronics.

Evaluation: Evaluation will be continuous and integral part of the class followed by final examination.

List of experiments/demonstrations:

- Basic safety precautions, Introduction and use of measuring instruments – voltmeter, ammeter, multi-meter, oscilloscope, Real-life resistors, capacitors and inductors.
- Measuring the steady-state and transient time-response of R-L, R-C, and R-L-C circuits to a step change in voltage (transient may be observed on a storage oscilloscope). Sinusoidal steady state response of R-L, and R-C circuits – impedance calculation and verification. Observation of phase differences between current and voltage, Resonance in R-L-C circuits.
- Transformers: Observation of the no-load current waveform on an oscilloscope (non- sinusoidal wave-shape due to B-H curve nonlinearity should be shown along with a discussion about harmonics). Loading of a transformer: measurement of primary and secondary voltages and currents, and power.
- Determination of equivalent circuit parameters of a single phase transformer by O.C. and S.C. tests and estimation of voltage regulation and efficiency at various loading conditions and

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verification by load test.

- Demonstration of cut-out sections of machines: dc machine (commutator-brush arrangement), induction machine (squirrel cage rotor), synchronous machine (field winding - slip ring arrangement) and single-phase induction machine.
- Torque Speed Characteristic of separately excited dc motor.
- Synchronous speed of two and four-pole, three-phase induction motors. Direction reversal by change of phase-sequence of connections. Torque-Slip Characteristic of an induction motor. Generator operation of an induction machine driven at super-synchronous speed.
- Synchronous Machine operating as a generator: stand-alone operation with a load. Control of voltage through field excitation.
- Study of V-I Characteristics of Diodes.
- Applications of Diodes and their verification.
- Transistor applications as amplifier and switch.
- Verification of truth table for various gates, Flip-Flops.
- Realizations of Various gates, Flip-Flops etc.
- Verification of De Morgan's theorems.

References

1. D.P. Kothari & I.J. Nagrath, Basic Electrical Engineering, Tata McGraw Hill, latest edition.
2. S.N. Singh, Basic Electrical Engineering, P.H.I., 2013
3. Rajendra Prasad, Fundamentals of Electrical Engineering, Prentice Hall, 2014
4. M.S. Sukhija, T. K. Nagsarkar, Basic Electrical and electronics engineering, Oxford University press, 2012
5. C.L. Wadhwa, Basic Electrical Engineering, New Age International.
6. B.L. Theraja & A.K. Theraja Textbook of Electrical Technology - Vol. 1, S. Chand Publication
7. E. Hughes & I.M. Smith Hughes Electrical Technology Pearson
8. Vincent Del Toro Electrical Engineering Fundamentals



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Branch- Common to All Disciplines

BT105	Engineering Graphics	2L-0T-2P	3Credits
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Course Objective:

All phases of manufacturing or construction require the conversion of new ideas and design concepts into the basic line language of graphics. Therefore, there are many areas (civil, mechanical, electrical, architectural and industrial) in which the skills of the CAD technicians play major roles in the design and development of new products or construction. Students prepare for actual work situations through practical training in a new state-of-the-art computer designed CAD laboratory using engineering software. This course is designed to address:

- to prepare you to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- to prepare you to communicate effectively
- to prepare you to use the techniques, skills, and modern engineering tools necessary for engineering practice

Course Contents:

Traditional Engineering Graphics: Principles of Engineering Graphics; Orthographic Projection; Descriptive Geometry; Drawing Principles; Isometric Projection; Surface Development; Perspective; Reading a Drawing; Sectional Views; Dimensioning & Tolerances; True Length, Angle; intersection, Shortest Distance.

Computer Graphics: Engineering Graphics Software; Spatial Transformations; Orthographic Projections; Model Viewing; Co-ordinate Systems; Multi-view Projection; Exploded Assembly; Model Viewing; Animation; Spatial Manipulation; Surface Modelling; Solid Modelling; Introduction to Building Information Modelling (BIM)

(Except the basic essential concepts, most of the teaching part can happen concurrently in the laboratory)

Module 1: Introduction to Engineering Drawing covering, Principles of Engineering Graphics and their significance, usage of Drawing instruments, lettering, Conic sections including the Rectangular Hyperbola (General method only); Cycloid, Epicycloid, Hypocycloid and Involute; Scales – Plain, Diagonal and Vernier Scales;

Module 2: Orthographic Projections covering, Principles of Orthographic Projections- Conventions - Projections of Points and lines inclined to both planes; Projections of planes inclined Planes - Auxiliary Planes;

Module 3: Projections of Regular Solids covering, those inclined to both the Planes- Auxiliary Views; Draw simple annotation, dimensioning and scale. Floor plans that include: windows, doors, and fixtures such as WC, bath, sink, shower, etc.

Module 4: Sections and Sectional Views of Right Angular Solids covering, Prism, Cylinder, Pyramid, Cone – Auxiliary Views; Development of surfaces of Right Regular Solids - Prism, Pyramid, Cylinder and Cone; Draw the sectional orthographic views of geometrical solids, objects from industry and dwellings (foundation to slab only)

Module 5: Isometric Projections covering, Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions; Isometric Views of Lines, Planes, Simple and compound Solids;

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Conversion of Isometric Views to Orthographic Views and Vice-versa. Conventions:

Module 6: Overview of Computer Graphics covering, listing the computer technologies that impact on graphical communication, Demonstrating knowledge of the theory of CAD software [such as: The Menu System, Toolbars (Standard, Object Properties, Draw, Modify and Dimension), Drawing Area (Background, Crosshairs, Coordinate System), Dialog boxes and windows, Shortcut menus (Button Bars), The Command Line (where applicable), The Status Bar, Different methods of zoom as used in CAD, Select and erase objects.; Isometric Views of lines, Planes, Simple and compound Solids]

Module 7: Customisation & CAD Drawing consisting of set up of the drawing page and the printer, including scale settings, Setting up of units and drawing limits; ISO and ANSI standards for coordinate dimensioning and tolerancing; Orthographic constraints, Snap to objects manually and automatically; Producing drawings by using various coordinate input entry methods to draw straight lines, Applying various ways of drawing circles;

Module 8: Annotations, layering & other functions covering applying dimensions to objects, applying annotations to drawings; Setting up and use of Layers, layers to create drawings, Create, edit and use customized layers; Changing line lengths through modifying existing lines (extend/lengthen); Printing documents to paper using the print command; orthographic projection techniques; Drawing sectional views of composite right regular geometric solids and project the true shape of the sectioned surface; Drawing annotation, Computer-aided design (CAD) software modeling of parts and assemblies, Parametric and non-parametric solid, surface, and wireframe models, Part editing and two-dimensional documentation of models, Planar projection theory, including sketching of perspective, isometric, multiview, auxiliary, and section views, Spatial visualization exercises, Dimensioning guidelines, tolerancing techniques; dimensioning and scale multi views of dwelling;

Module 9: Demonstration of a simple team design project that illustrates Geometry and topology of engineered components; creation of engineering models and their presentation in standard 2D blueprint form and as 3D wire-frame and shaded solids; meshed topologies for engineering analysis and tool-path generation for component manufacture; geometric dimensioning and tolerancing; Use of solid-modeling software for creating associative models at the component and assembly levels; floor plans that include: windows, doors, and fixtures such as WC, bath, sink, shower, etc. Applying colour coding according to building drawing practice; Drawing sectional elevation showing foundation to ceiling; Introduction to Building Information Modelling (BIM).

Goals & Outcomes:

- Introduction to engineering design and its place in society
- Exposure to the visual aspects of engineering design
- Exposure to engineering graphics standards
- Exposure to solid modelling
- Exposure to computer-aided geometric design
- Exposure to creating working drawings
- Exposure to engineering communication

Text/Reference Books:

1. Bhatt N.D., Panchal V.M. & Ingle P.R., (2014), Engineering Drawing, Charotar Publishing House
2. Shah, M.B. & Rana B.C. (2008), Engineering Drawing and Computer Graphics, Pearson Education
3. Agrawal B. & Agrawal C. M. (2012), Engineering Graphics, TMH Publication
4. Narayana, K.L. & P Kannaiah (2008), Text book on Engineering Drawing, Scitech Publishers
5. (Corresponding set of) CAD Software Theory and User Manuals

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Branch- Common to All Disciplines

BT106	Manufacturing Practices	0L-0T-2P	1Credits
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Course Objective:

Manufacturing is fundamental to the development of any engineering product. The course on Engineering Workshop Practice is intended to expose engineering students to different types of manufacturing / fabrication processes, dealing with different materials such as metals, ceramics, plastics, wood, glass etc. While the actual practice of fabrication techniques is given more weightage, some lectures and video clips available on different methods of manufacturing are also included.

Course Contents:

Lectures & videos: (10 hours)

1. Manufacturing Methods- casting, forming, machining, joining, advanced manufacturing methods (3 lectures)
2. CNC machining, Additive manufacturing (1 lecture)
3. Fitting operations & power tools (1 lecture)
4. Electrical & Electronics (1 lecture)
5. Carpentry (1 lecture)
6. Plastic moulding, glass cutting (1 lecture)
7. Metal casting (1 lecture)
8. Welding (arc welding & gas welding), brazing (1 lecture)

Course Outcomes:

At the end of this course, students will demonstrate the ability to

- Understanding different manufacturing techniques and their relative advantages/ disadvantages with respect to different applications.
- Selection of a suitable technique for meeting a specific fabrication need.
- Acquire a minimum practical skill with respect to the different manufacturing methods and develop the confidence to design & fabricate small components for their project work and also to participate in various national and international technical competitions.
- Introduction to different manufacturing methods in different fields of engineering.
- Practical exposure to different fabrication techniques.
- Creation of simple components using different materials.
- Exposure to some of the advanced and latest manufacturing techniques being employed in the industry.

(ii) Workshop Practice:(60 hours)

1. Machine shop (10 hours)
2. Fitting shop (8 hours)
3. Carpentry (6 hours)
4. Electrical & Electronics(8 hours)
5. Welding shop (8 hours (Arc welding 4 hrs + gas welding 4 hrs)
6. Casting (8 hours)
7. Smithy (6 hours)
8. Plastic moulding & Glass Cutting (6 hours)

Examinations could involve the actual fabrication of simple components, utilizing one or more of the techniques covered above.



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Laboratory Outcomes

- Upon completion of this laboratory course, students will be able to fabricate components with their own hands.
- They will also get practical knowledge of the dimensional accuracies and dimensional tolerances possible with different manufacturing processes.
- By assembling different components, they will be able to produce small devices of their interest.



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New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year

Branch- Common to All Disciplines

BT201	Engineering Physics	2L-1T-2P	4 Credits
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Course Contents:

Module 1: Wave nature of particles and the Schrodinger equation (8 lectures)

Introduction to Quantum mechanics, Wave nature of Particles, operators, Time-dependent and time-independent Schrodinger equation for wavefunction, Application: Particle in a One dimensional Box, Born interpretation, Free-particle wavefunction and wave-packets, v_g and v_p relation Uncertainty principle.

Module 2: Wave optics (8 lectures)

Huygens' principle, superposition of waves and interference of light by wave front splitting and amplitude splitting; Young's double slit experiment, Newton's rings, Michelson interferometer, Mach-Zehnder interferometer.

Franhofer diffraction from a single slit and a circular aperture, the Rayleigh criterion for limit of resolution and its application to vision; Diffraction gratings and their resolving power.

Module 3: Introduction to solids (8 lectures)

Free electron theory of metals, Fermi level of Intrinsic and extrinsic, density of states, Bloch's theorem for particles in a periodic potential, Kronig-Penney model(no derivation) and origin of energy bands. V-I characteristics of PN junction, Zener diode, Solar Cell, Hall Effect.

Module 4: Lasers (8 lectures)

Einstein's theory of matter radiation interaction and A and B coefficients; amplification of light by population inversion, different types of lasers: gas lasers (He-Ne, CO₂), solid-state lasers(ruby, Neodymium). Properties of laser beams: mono-chromaticity, coherence, directionality and brightness, laser speckles, applications of lasers in science, engineering and medicine. Introduction to Optical fiber, acceptance angle and cone, Numerical aperture, V number, attenuation.

Module 5: Electrostatics in vacuum (8 lectures)

Calculation of electric field and electrostatic potential for a charge distribution; Electric displacement, Basic Introduction to Dielectrics, Gradient, Divergence and curl, Stokes' theorem, Gauss Theorem, Continuity equation for current densities; Maxwell's equation in vacuum and non-conducting medium; Poynting vector.

List of Experiment

1. To determine the dispersive power of prism.
2. To determine the λ of sodium light with the help of newton's Ring.
3. Resolving Power of Telescope.
4. YDSE (Young's double slit Experiment).
5. To determine the frequency of AC mains supply.
6. V-I Characteristics of P-N junction diode.
7. To determine the λ of diode loses by single slit diffraction.
8. To determine the plank's constant with the help of photocell.
9. Hall's effect experiment.
10. Calibration of ammeter by using reference cell.



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11. To study the effect of temperature on reverse saturation current in P-N junction diode and to determine the energy band gap.
12. To determine the λ of sodium by using plane diffraction grating.
13. To determine the prominent lines of mercury source by plane diffraction grating.
14. To determine the numerical aperture of an optical fiber.
15. To determine λ of given laser by plane diffraction grating.

Suggested Reference Books

1. A. Ghatak, Optics.
2. O. Svelto, Principles of Lasers.
3. David Griffiths, Introduction to Electrodynamics.
4. D.J. Griffiths, Quantum Mechanics.
5. Halliday & Resnick, Physics.



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New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year (II Semester)

Branch- Common to All Disciplines

BT202	MATHEMATICS-II	3L-1T-0P	4 Credits
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OBJECTIVES: The objective of this course is to familiarize the prospective engineers with techniques in Ordinary and partial differential equations, complex variables and vector calculus. It aims to equip the students to deal with advanced level of mathematics and applications that would be essential for their disciplines. More precisely, the objectives are:

- To introduce effective mathematical tools for the solutions of ordinary and partial differential equations that model physical processes.
- To introduce the tools of differentiation and integration of functions of complex variable that are used in various techniques dealing engineering problems.
- To acquaint the student with mathematical tools available in vector calculus needed various field of science and engineering.

Course Contents:

Module 1: Ordinary Differential Equations I : (6 hours) : Differential Equations of First Order and First Degree (Leibnitz linear, Bernoulli's, Exact), Differential Equations of First Order and Higher Degree, Higher order differential equations with constants coefficients, Homogeneous Linear Differential equations, Simultaneous Differential Equations.

Module 2: Ordinary differential Equations II: (8 hours) : Second order linear differential equations with variable coefficients, Method of variation of parameters, Power series solutions; Legendre polynomials, Bessel functions of the first kind and their properties.

Module 3: Partial Differential Equations : (8 hours) : Formulation of Partial Differential equations, Linear and Non-Linear Partial Differential Equations, Homogeneous Linear Partial Differential Equations with Constants Coefficients.

Module 4: Functions of Complex Variable : (8 hours) : Functions of Complex Variables: Analytic Functions, Harmonic Conjugate, Cauchy-Riemann Equations (without proof), Line Integral, Cauchy-Goursat theorem (without proof), Cauchy Integral formula (without proof), Singular Points, Poles & Residues, Residue Theorem, Application of Residues theorem for Evaluation of Real Integral (Unit Circle).

Module 5: Vector Calculus : (10 hours) : Differentiation of Vectors, Scalar and vector point function, Gradient, Geometrical meaning of gradient, Directional Derivative, Divergence and Curl, Line Integral, Surface Integral and Volume Integral, Gauss Divergence, Stokes and Green theorems.

Textbooks/References:

1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002.
2. Erwin kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
3. W. E. Boyce and R. C. DiPrima, Elementary Differential Equations and Boundary Value Problems, 9th Edn., Wiley India, 2009.
4. S. L. Ross, Differential Equations, 3rd Ed., Wiley India, 1984.
5. E. A. Coddington, An Introduction to Ordinary Differential Equations, Prentice Hall India, 1995.
6. E. L. Ince, Ordinary Differential Equations, Dover Publications, 1958.
7. J. W. Brown and R. V. Churchill, Complex Variables and Applications, 7th Ed., McGraw Hill, 2004.
8. N.P. Bali and Manish Goyal, A text book of Engineering Mathematics, Laxmi Publications, Reprint, 2008.
9. B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 36th Edition, 2010.


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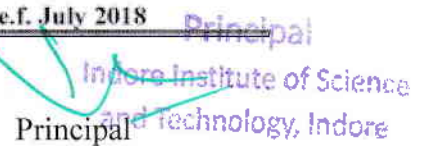
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B. Tech. First Year

Branch- Common to All Disciplines

BT203	Basic Mechanical Engineering	3L-0T-2P	4 Credits
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Course Contents:

Unit I :

Materials : Classification of engineering material, Composition of Cast iron and Carbon steels, Iron Carbon diagram. Alloy steels their applications. Mechanical properties like strength, hardness, toughness, ductility, brittleness, malleability etc. of materials, Tensile test- Stress-strain diagram of ductile and brittle materials, Hooks law and modulus of elasticity, Hardness and Impact testing of materials, BHN etc.

Unit II:

Measurement: Concept of measurements, errors in measurement, Temperature, Pressure, Velocity, Flow strain, Force and torque measurement, Vernier caliper, Micrometer, Dial gauge, Slip gauge, Sine-bar and Combination set.

Production Engineering: Elementary theoretical aspects of production processes like casting, carpentry, welding etc. Introduction to Lathe and Drilling machines and their various operations.

Unit III :

Fluids : Fluid properties pressure, density and viscosity etc. Types of fluids, Newton's law of viscosity, Pascal's law, Bernoulli's equation for incompressible fluids, Only working principle of Hydraulic machines, pumps, turbines, Reciprocating pumps.

Unit IV:

Thermodynamics : Thermodynamic system, properties, state, process, Zeroth, First and second law of thermodynamics, thermodynamic processes at constant pressure, volume, enthalpy & entropy.

Steam Engineering : Classification and working of boilers, mountings and accessories of boilers, Efficiency and performance analysis, natural and artificial draught, steam properties, use of steam tables.

Unit V:

Reciprocating Machines :

Working principle of steam Engine, Carnot, Otto, Diesel and Dual cycles P-V & T-S diagrams and its efficiency, working of Two stroke & Four stroke Petrol & Diesel engines. Working principle of compressor.

Reference Books:

- 1- Kothandaraman & Rudramoorthy, Fluid Mechanics & Machinery, New Age.
- 2- Nakra & Chaudhary, Instrumentation and Measurements, TMH.
- 3- Nag P.K., Engineering Thermodynamics, TMH.
- 4- Ganesan, Internal Combustion Engines, TMH.
- 5- Agrawal C.M., Basic Mechanical Engineering, Wiley Publication.
- 6- Achuthan M., Engineering Thermodynamics, PHI.

List of Suggestive Core Experiments:

Theory related Eight to Ten experiments including core experiments as follows:

- 1- Study of Universal Testing machines.
- 2- Linear and Angular measurement using, Micrometer, Slip Gauges, Dial Gauge and Sine-bar.
- 3- Study of Lathe Machine.
- 4- Study of Drilling Machines.
- 5- Verification of Bernoulli's Theorem.
- 6- Study of various types of Boilers.
- 7- Study of different IC Engines.
- 8- Study of different types of Boilers Mountings and accessories.

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New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year

Branch- Common to All Disciplines

BT204	Basic Civil Engineering & Mechanics	3L-0T-2P	4 Credits
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Course Contents:

Unit I Building Materials & Construction

Stones, bricks, cement, lime, timber-types, properties, test & uses, laboratory tests concrete and mortar Materials: Workability, Strength properties of Concrete, Nominal proportion of Concrete preparation of concrete, compaction, curing.

Elements of Building Construction, Foundations conventional spread footings, RCC footings, brick masonry walls, plastering and pointing, floors, roofs, Doors, windows, lintels, staircases – types and their suitability

Unit II Surveying & Positioning:

Introduction to surveying Instruments – levels, theodolites, plane tables and related devices. Electronic surveying instruments etc. Measurement of distances – conventional and EDM methods, measurement of directions by different methods, measurement of elevations by different methods. Reciprocal leveling.

Unit III Mapping & sensing:

Mapping details and contouring, Profile Cross sectioning and measurement of areas, volumes, application of measurements in quantity computations, Survey stations, Introduction of remote sensing and its applications.

Engineering Mechanics

Unit IV

Forces and Equilibrium: Graphical and Analytical Treatment of Concurrent and non-concurrent Co- planner forces, free Diagram, Force Diagram and Bow's notations, Application of Equilibrium Concepts: Analysis of plane Trusses: Method of joints, Method of Sections. Frictional force in equilibrium problems

Unit – V

Centre of Gravity and moment of Inertia: Centroid and Centre of Gravity, Moment Inertia of Area and Mass, Radius of Gyration, Introduction to product of Inertia and Principle Axes. Support Reactions, Shear force and bending moment Diagram for Cantilever & simply supported beam with concentrated, distributed load and Couple.

Reference Books:

1. S. Ramamrutam & R.Narayanan; Basic Civil Engineering, Dhanpat Rai Pub.
2. Prasad L.B., Applied Mechanics, Khanna Publication.
3. Punmia, B.C., Surveying, Standard book depot,
4. Shesha Prakash and Mogaveer; Elements of Civil Engg & Engg. Mechanics; PHI
5. S.P.Timoshenko, Mechanics of structure, East West press Pvt.Ltd.
6. Surveying by Duggal – Tata McGraw Hill New Delhi.
7. Building Construction by S.C. Rangwala- Charotar publications House, Anand.
8. Building Construction by Grucharan Singh- Standard Book House, New Delhi
9. Global Positioning System Principles and application- Gopi, TMH
10. R.C. Hibbler – Engineering Mechanics: Statics & Dynamics.
11. A. Boresi & Schmidt- Engineering Mechines- statics dynamics, Thomson' Books
12. R.K. Rajput, Engineering Mechanics S.Chand & Co

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List of suggestive core Experiments:

Students are expected to perform minimum ten experiments from the list suggested below by preferably selecting experiments from each unit of syllabus.

1. To perform traverse surveying with prismatic compass, check for local attraction and determine corrected bearings and to balance the traverse by Bowditch's rule.
2. To perform leveling exercise by height of instrument of Rise and fall method.
3. To measure horizontal and vertical angles in the field by using Theodolite.
4. To determine (a) normal consistency (b) Initial and Final Setting time of a cement Sample.
5. To determine the workability of fresh concrete of given proportions by slump test or compaction factor test.
6. To determine the Compressive Strength of brick.
7. To determine particle size distribution and fineness modulus of coarse and fine Aggregate.
8. To verify the law of Triangle of forces and Lami's theorem.
9. To verify the law of parallelogram of forces.
10. To verify law of polygon of forces
11. To find the support reactions of a given truss and verify analytically.
12. To determine support reaction and shear force at a given section of a simply Supported beam and verify in analytically using parallel beam apparatus.
13. To determine the moment of inertia of fly wheel by falling weight method.
14. To verify bending moment at a given section of a simply supported beam.



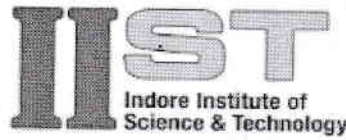
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New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year

Branch- Common to All Disciplines

BT205	Basic Computer Engineering	3L-0T-2P	4 Credits
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Course Contents:

UNIT I

Computer: Definition, Classification, Organization i.e. CPU, register, Bus architecture, Instruction set, Memory & Storage Systems, I/O Devices, and System & Application Software. Computer Application in e-Business, Bio-Informatics, health Care, Remote Sensing & GIS, Meteorology and Climatology, Computer Gaming, Multimedia and Animation etc.

Operating System: Definition, Function, Types, Management of File, Process & Memory. Introduction to MS word, MS powerpoint, MS Excel

UNIT II

Introduction to Algorithms, Complexities and Flowchart, Introduction to Programming, Categories of Programming Languages, Program Design, Programming Paradigms, Characteristics or Concepts of OOP, Procedure Oriented Programming VS object oriented Programming, Introduction to C++: Character Set, Tokens, Precedence and Associativity, Program Structure, Data Types, Variables, Operators, Expressions, Statements and control structures, I/O operations, Array, Functions.

UNIT III

Object & Classes, Scope Resolution Operator, Constructors & Destructors, Friend Functions, Inheritance, Polymorphism, Overloading Functions & Operators, Types of Inheritance, Virtual functions, Introduction to Data Structures.

UNIT IV

Computer Networking: Introduction, Goals, ISO-OSI Model, Functions of Different Layers, Internetworking Concepts, Devices, TCP/IP Model, Introduction to Internet, World Wide Web, E-commerce

Computer Security Basics: Introduction to viruses, worms, malware, Trojans, Spyware and Anti-Spyware Software, Different types of attacks like Money Laundering, Information Theft, Cyber Pornography, Email spoofing, Denial of Service (DoS), Cyber Stalking, Logic bombs, Hacking Spamming, Cyber Defamation, phishing Security measures Firewall, Computer Ethics & Good Practices, Introduction of Cyber Laws about Internet Fraud, Good Computer Security Habits.

UNIT V

Data base Management System: Introduction, File oriented approach and Database approach, Data Models, Architecture of Database System, Data independence, Data dictionary, DBA, Primary Key, Data definition language and Manipulation Languages.

Cloud computing: definition, cloud infrastructure, cloud segments or service delivery models (IaaS, PaaS and SaaS), cloud deployment models/ types of cloud (public, private, community and hybrid clouds), Pros and Cons of cloud computing

List of Experiment

01. Study and practice of Internal & External DOS commands.
02. Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, ps etc.
03. Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel,
04. Creation and editing of Text files using MS- word.
05. Creation and operating of spreadsheet using MS-Excel.
06. Creation and editing power-point slides using MS- power point
07. Creation and manipulation of database table using SQL in MS-Access.
08. WAP to illustrate Arithmetic expressions
09. WAP to illustrate Arrays.
10. WAP to illustrate functions.
11. WAP to illustrate constructor & Destructor
12. WAP to illustrate Object and classes.

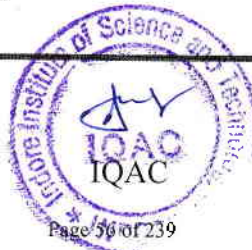
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13. WAP to illustrate Operator overloading
14. WAP to illustrate Function overloading
15. WAP to illustrate Derived classes & Inheritance
16. WAP to insert and delete and element from the Stack
17. WAP to insert and delete and element from the Queue
18. WAP to insert and delete and element from the Linked List

Recommended Text Books:

1. Fundamentals of Computers : E Balagurusamy, TMH
2. Basic Computer Engineering: Silakari and Shukla, Wiley India
3. Fundamentals of Computers : V Rajaraman, PHI
4. Information Technology Principles and Application: Ajoy Kumar Ray & Tinku Acharya PHI.

Recommended Reference Books:

1. Introduction of Computers : Peter Norton, TMH
2. Object Oriented Programming with C++ :E.Balagurusamy, TMH
3. Object Oriented Programming in C++: Rajesh K,Shukla, Wiley India
4. Concepts in Computing: Kenneth Hoganson, Jones & Bartlett.
5. Operating Systems – Silberschatz and Galvin - Wiley India
6. Computer Networks:Andrew Tananbaum, PHI
7. Data Base Management Systems, Korth, TMH
8. Cloud Computing, Kumar, Wiley India



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New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year

Branch- Common to All Disciplines

BT206	Language Lab and Seminars	0L-0T-2P	1 Credits
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Course objective: This course intends to impart practical training in the use of English Language for Communicative purposes and aims to develop students' personality through language Laboratory.

Topics to be covered in the Language laboratory sessions:

1. Introducing oneself, family, social roles.
2. Public Speaking and oral skills with emphasis on conversational practice, extempore speech, JAM(Just a minute sessions), describing objects and situations, giving directions, debate, telephonic etiquette.
3. Reading Comprehension: Intensive reading skills, rapid reading, and reading aloud (Reading material to be selected by the teacher).
4. To write a book review. Standard text must be selected by the teacher.
5. Role plays: preparation and delivery topic to be selected by teacher/faculty.



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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

I Semester (Group A)

Bachelor of Technology (B.Tech.)

W.E.F. JULY 2023

GROUP A: (AB, RM, AN, AT, CS, EE, EI, EV, EX, IE, IT, MI, MM, AG, SD, CO, PC)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory		Quiz/Assignment	Practical			L	T	P	
				End Sem.	Mid Sem.		End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept. Branch & Innovations									
Fourth week onwards classes will start													
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT103	BSC-4	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Samiti Involvement Yashwantrao Chavan Pratishthan Rural Outreach				15	10	25	-	-	4	2
Total				350	100	50	150	100	750	13	1	14	21

Automation and Robotics(AB), Robotics and Mechatronics (RM), Agriculture Engineering (AN), Agriculture Technology (AT), Computer Science & Engineering(CS), Electrical Engineering (EE), Electronics & Instrumentation Engineering (EI), Electric Vehicles (EV), Electrical & Electronics Engineering (EX), Applied Electronics & Instrumentation Engineering (IE), Information Technology (IT), Mining Engineering (MI), Mining and Mineral Processing (MM), 3 D Animation & Graphics (AG), Computer Science & Design (SD), Computer Engineering (CO), Petrochemical Engineering (PC)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)

II Semester (Group A)

W.E.F. JULY 2023

GROUP A: (AB, RM, AN, AT, CS, EE, EI, EV, EX, IE, IT, MI, MM, AG, SD, CO, PC)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/Assignment	End Sem.	Lab work & Sessional					
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	OSMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	3
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
Total				350	100	50	150	100	750	14	2	10	21

Automation and Robotics(AB), Robotics and Mechatronics (RM), Agriculture Engineering (AN), Agriculture Technology (AT), Computer Science & Engineering(CS), Electrical Engineering (EE), Electronics & Instrumentation Engineering (EI), Electric Vehicles (EV), Electrical & Electronics Engineering (EX), Applied Electronics & Instrumentation Engineering (IE), Information Technology (IT), Mining Engineering (MI), Mining and Mineral Processing (MM), 3 D Animation & Graphics (AG), Computer Science & Design (SD), Computer Engineering (CO), Petrochemical Engineering (PC)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)

I Semester (Group B)

GROUP B: (AD, AL, CL, AU, BM, CE, CI, CM, DS, EC, FT, IO, IP, IS, ME, RA, CY, CN, CD, AI, IA)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept. Branch & Innovations									
Fourth week onwards classes will start													
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	ESMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
Total				350	100	50	150	100	750	14	2	10	21

Artificial Intelligence and Data Science (AD), CSE-Artificial Intelligence and Machine Learning (AI), Artificial Intelligence and Machine Learning (CI), Automobile Engineering (AU), Biomedical Engineering (BM), Civil Engineering (CE), Computer Science & Information Technology (CI), Chemical Engineering (CM), Data Science (DS), Electronics & Communication Engineering (EC), Fire Technology & Safety Engineering (FT), CSE-IOT (IO), Industrial Production Engineering (IP), CSE-IOT and Cyber Security Including Block Chain Technology (IS), Mechanical Engineering (ME), Robotics and Artificial Intelligence (RA), CSE-Cyber Security (CY), Cyber Security (CN), CSE-Data Science (CD), Artificial Intelligence (AI), CSE-Artificial Intelligence (IA)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula

II Semester (Group B)

Bachelor of Technology (B.Tech.)

W.E.F. JULY 2023

GROUP B: (AD, AL, CL, AU, BM, CE, CI, CM, DS, EC, FT, IO, IP, IS, ME, RA, CY, CN, CD, AI, IA)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT103	HSMCA	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Summer Internship (Urban/Rural) Abhyas (100Hrs) Rural Outreach				15	10	25	-	-	4	2
			Total	350	100	50	150	100	750	13	1	14	21

Artificial Intelligence and Data Science (AD), CSE-Artificial Intelligence and Machine Learning (AI), Artificial Intelligence and Machine Learning (CI), Automobile Engineering (AU), Biomedical Engineering (BM), Civil Engineering (CE), Computer Science & Information Technology (CI), Chemical Engineering (CM), Data Science (DS), Electronics & Communication Engineering (EC), Fire Technology & Safety Engineering (FT), CSE -IOT (IO), Industrial Production Engineering (IP), CSE -IOT and Cyber Security Including Block Chain Technology (IS), Mechanical Engineering (ME), Robotics and Artificial Intelligence (RA), CSE-Cyber Security (CY), Cyber Security (CN), CSE-Data Science (CD), Artificial Intelligence (AI), CSE-Artificial Intelligence (IA)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

B.Tech. First Year

Branch- Common to All Disciplines

BT101	Engineering Chemistry	3L-0T-2P	4 Credits
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Course Contents:

- (i) **Water – Analysis, Treatments and Industrial Applications (4 Lectures)**
Sources, Impurities, Hardness & its units, Determination of hardness by EDTA method, Alkalinity & It's determination and related numerical problems.
- (ii) **Boiler problem & softening methods (4 Lectures)**
Boiler troubles (Sludge & Scale, Priming & Foaming, Boiler Corrosion, Caustic Embrittlement), Softening methods (Lime-Soda, Zeolite and Ion Exchange Methods) and related numerical problems.
- (iii) **Lubricants and Lubrication (4 Lectures)**
Introduction, Mechanism of lubrication, Classification of lubricants, significance & determination of Viscosity and Viscosity Index, Flash & Fire Points, Cloud & Pour Points, Aniline Point, Acid Number, Saponification Number, Steam Emulsification Number and related numerical problems.
- (iv) **Polymer & polymerization (4 Lectures)**
Introduction, types of polymerisation, Classification, mechanism of polymerisation (Free radical & Ionic polymerization). Thermoplastic & Thermosetting polymers Elementary idea of Biodegradable polymers, preparation, properties & uses of the following polymers- PVC, PMMA, Teflon, Nylon 6, Nylon 6:6, Polyester phenol formaldehyde, Urea- Formaldehyde, Buna N, Buna S, Vulcanization of Rubber.
- (v) **Phase equilibrium and Corrosion (5 Lectures)**
Phase diagram of single component system (Water) Phase diagram of binary Eutectic System (Cu-Ag.) Corrosion: Types, Mechanisms & prevention.
- (vi) **Spectroscopic techniques and application (6 Lectures)**
Principle, Instrumentation & Applications, electronics spectroscopy, Vibrational & Rotational Spectroscopy of diatomic molecules.
- (vii) **Periodic properties (4 Lectures)**
Effective Nuclear Charge, Variations: S, P, d & f Orbital energies of atoms in periodic table, Electronics Configuration, atomic & Ionic sizes, electron affinity & electro negativity, Polarizability & Oxidation States.

Course Outcomes

The concepts developed in this course will aid in quantification of several concepts in chemistry that have been introduced at the 10+2 levels in schools. Technology is being increasingly based on the electronic, atomic and molecular level modifications.

Quantum theory is more than 100 years old and to understand phenomena at nanometer levels, one has to base the description of all chemical processes at molecular levels. The course will enable the student to:

- Analyse microscopic chemistry in terms of atomic and molecular orbitals and intermolecular forces.
- Rationalise bulk properties and processes using thermodynamic considerations.
- Distinguish the ranges of the electromagnetic spectrum used for exciting different molecular

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energy levels in various spectroscopic techniques

- Rationalise periodic properties such as ionization potential, electronegativity, oxidation states and electronegativity.
- List major chemical reactions that are used in the synthesis of molecules.

Practical List

NOTE: At least 8 of the following core experiments must be performed during the session.

- 1. Water testing**
 - (i) Determination of Total hardness by Complexometric titration method.
 - (ii) Determination of mixed alkalinity
 - a) OH & CO₃
 - b) CO₃ & HCO₃
 - (iii) Chloride ion estimation by Argentometric method.
- 2. Fuels & Lubricant testing:**
 - (i) Flash & fire points determination by
 - a) Pensky Martin Apparatus,
 - b) Abel's Apparatus
 - c) Cleveland's open cup Apparatus
 - d) Calorific value by bomb calorimeter.
 - (ii) Viscosity and Viscosity index determination by
 - a) Redwood viscometer No.1
 - b) Redwood viscometer No.2
 - (iii) Proximate analysis of coal
 - a) Moisture content
 - b) Ash content
 - c) Volatile matter content
 - d) Carbon residue
 - (iv) Steam emulsification No & Aniline point determination
 - (v) Cloud and Pour point determination of lubricating oil
- 3. Alloy Analysis**
 - (i) Determination of percentage of Fe in an iron alloy by redox titration using N-Phenyl anthranilic acid as internal indicator.
 - (ii) Determination of Cu and or Cr in alloy by Iodometric Titration.
 - (iii) Determination of % purity of Ferrous Ammonium Sulphate & Copper Sulphate.

Reference Books :

- 1 Chemistry in Engineering and Technology - Vol.1 &2 Kuriacose and Rajaram , McGraw Hill Education
- 2 Fundamental of Molecular Spectroscopy C.N. Banwell , McGraw Hill Education
- 3 Engineering Chemistry – B.K. Sharma, Krishna Prakashan Media (P) Ltd., Meerut.
- 4 Basics of Engineering Chemistry – S.S. Dara & A.K. Singh, S. Chand &Company Ltd., Delhi.
- 5 Applied Chemistry – Theory and Practice, O.P. Viramani, A.K. Narula, New Age International Pvt. Ltd. Publishers, New Delhi.
- 6 Elementary Spectroscopy .Y .R. Sharma . S. Chand Publishing
- 7 Polymer Science, Vasant R. Gowariker, N. V. Viswanathan. Jayadev Sreedhar, New Age International Pvt. Ltd
- 8 Advanced Inorganic Chemistry, G.R. Chaturvedi, Goyal Publishing house
- 9 Engineering Chemistry (NPTEL Web-Text) by P. Ramachandran, Kamaluddin and M.S. Krishna

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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year (I Semester)
Branch- Common to All Disciplines

BT102	MATHEMATICS-I	3L-1T-0P	4 Credits
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OBJECTIVES: The objective of this course is to familiarize the prospective engineers with techniques in calculus, multivariate analysis and linear algebra. It aims to equip the students with standard concepts and tools at an intermediate to advanced level that will serve them well towards tackling more advanced level of mathematics and applications that they would find useful in their disciplines. More precisely, the objectives are:

- To introduce the idea of applying differential and integral calculus to notions of curvature and to improper integrals. Apart from some applications it gives a basic introduction on Beta and Gamma functions.
- To introduce the fallouts of Rolle's Theorem that is fundamental to application of analysis to Engineering problems.
- To develop the tool of power series and Fourier series for learning advanced Engineering Mathematics.
- To familiarize the student with functions of several variables that is essential in most branches of engineering.
- To develop the essential tool of matrices and linear algebra in a comprehensive manner.

Course Contents:

Module 1: Calculus: (10 hours): Rolle's theorem, Mean Value theorems, Expansion of functions by Mc. Laurin's and Taylor's for one variable; Taylor's theorem for function of two variables, Partial Differentiation, Maxima & Minima (two and three variables), Method of Lagranges Multipliers.

Module 2: Calculus: (8 hours): Definite Integral as a limit of a sum and its application in summation of series; Beta and Gamma functions and their properties; Applications of definite integrals to evaluate surface areas and volumes of revolutions. Multiple Integral, Change the order of the integration, Applications of multiple integral for calculating area and volumes of the curves.

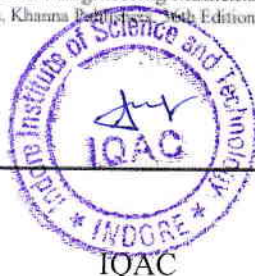
Module 3: Sequences and series: (6 hours): Convergence of sequence and series, tests for convergence; Power series, Taylor's series, series for exponential, trigonometric and logarithm functions; Fourier series; Half range sine and cosine series, Parseval's theorem.

Module 4: Vector Spaces (8hours): Vector Space, Vector Sub Space, Linear Combination of Vectors, Linearly Dependent, Linearly Independent, Basis of a Vector Space, Linear Transformations.

Module 5: Matrices (8 hours): Rank of a Matrix, Solution of Simultaneous Linear Equations by Elementary Transformation, Consistency of Equation, Eigen Values and Eigen Vectors, Diagonalization of Matrices, Cayley-Hamilton theorem and its applications to find inverse.

Textbooks/References:

1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002.
2. Erwin kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
3. Veerarajan T., Engineering Mathematics for first year, Tata McGraw-Hill, New Delhi, 2008.
4. Ramana B.V., Higher Engineering Mathematics, Tata McGraw Hill New Delhi, 11th Reprint, 2010.
5. D. Poole, Linear Algebra: A Modern Introduction, 2nd Edition, Brooks/Cole, 2005.
6. N.P. Bali and Manish Goyal, A text book of Engineering Mathematics, Laxmi Publications, Reprint, 2008.
7. B.S. Grewal, Higher Engineering Mathematics, Khanna Publications, 10th Edition, 2010.



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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
New Scheme Based On AICTE Flexible Curricula
B.Tech. First Year

Branch- Common to All Disciplines

BT103	English for Communication	3L-0T-2P	4 Credits
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COURSE CONTENTS:

Unit-I

Identifying Common errors in writing: Articles, Subject-Verb Agreement, Prepositions, Active and Passive Voice, Reported Speech: Direct and Indirect, Sentence Structure.

Unit-II

Vocabulary building and Comprehension:

Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives, synonyms, antonyms, Reading comprehension.

Unit-III

Communication:

Introduction, Meaning and Significance, Process of Communication, Oral and Written Communication, 7 c's of Communication, Barriers to Communication and Ways to overcome them, Importance of Communication for Technical students, nonverbal communication.

Unit-IV

Developing Writing Skills:

Planning, Drafting and Editing, Precise Writing, Précis, Technical definition and Technical description, Report Writing: Features of writing a good Report, Structure of a Formal Report, Report of Trouble, Laboratory Report, Progress Report.

Unit-V

Business Correspondence:

Importance of Business Letters, Parts and Layout; Application, Contents of good Resume, guidelines for writing Resume, Calling/Sending Quotation, Order, Complaint, E-mail and Tender.

Books Recommended:

1. 'Technical Communication : Principles and practice', Meenakshi Raman and Sangeeta Sharma (Oxford)
2. 'Effective Business Communication', Krizan and merrier (Cengage learning)
3. 'Communication Skill, Sanjay Kumar and pushlata, OUP2011
4. "Practical English Usage Michael Swan OUP, 1995.
5. "Exercises in spoken English Parts I-III CIEFL, Hyderabad, Oxford University Press
6. On writing well, William Zinsser, Harper Resource Book 2001.
7. Remedial English Grammar, F.T. Wood, Macmillan 2007.

Course Outcomes:

The student will acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.

Communicative Language Laboratory:

Course objective: The language laboratory focuses on the practice of English through audio-visual aids and Computer software. It intends to enable the students to speak English correctly with confidence and intends to help them to overcome their inhibitions and self-consciousness while speaking in English.

Topics to be covered in the Language laboratory sessions:

1. Listening Comprehension.
2. Pronunciation, Intonation, Rhythm
3. Practising everyday dialogues in English
4. Interviews.
5. Formal Presentation

Final Assessment should be based on assignment, assessment, presentation and interview of each candidate.

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New Scheme Based On AICTE Flexible Curricula
B.Tech. First Year

Branch- Common to All Disciplines

BT104	Basic Electrical & Electronics Engineering	2L-0T-2P	3Credits
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Course Contents:

Unit-I :

D.C. Circuits: Voltage and current sources, dependent and independent sources, Units and dimensions, Source Conversion, Ohm's Law, Kirchhoff's Law, Superposition theorem, Thevenin's theorem and their application for analysis of series and parallel resistive circuits excited by independent voltage sources, Power & Energy in such circuits. Mesh & nodal analysis, Star Delta transformation & circuits.

Unit - II :

1-phase AC Circuits: Generation of sinusoidal AC voltage, definition of average value, R.M.S. value, form factor and peak factor of AC quantity, Concept of phasor, Concept of Power factor, Concept of impedance and admittance, Active, reactive and apparent power, analysis of R-L, R-C, R-L-C series & parallel circuit

3-phase AC Circuits: Necessity and advantages of three phase systems, Meaning of Phase sequence, balanced and unbalanced supply and loads. Relationship between line and phase values for balanced star and delta connections. Power in balanced & unbalanced three-phase system and their measurements

Unit - III : Magnetic Circuits: Basic definitions, magnetization characteristics of Ferro magnetic materials, self inductance and mutual inductance, energy in linear magnetic systems, coils connected in series, AC excitation in magnetic circuits, magnetic field produced by current carrying conductor, Force on a current carrying conductor. Induced voltage, laws of electromagnetic Induction, direction of induced E.M.F.

Single phase transformer- General construction, working principle, e.m.f. equation, equivalent circuits, phasor diagram, voltage regulation, losses and efficiency, open circuit and short circuit test

Unit IV:

Electrical Machines: Construction, Classification & Working Principle of DC machine, induction machine and synchronous machine. Working principle of 3-Phase induction motor, Concept of slip in 3- Phase induction motor, Explanation of Torque-slip characteristics of 3-Phase induction motor. Types of losses occurring in electrical machines. Applications of DC machine, induction machine and synchronous machine.

Unit V :

Basic Electronics: Number systems & Their conversion used in digital electronics, De Morgan's theorem, Logic Gates, half and full adder circuits, R-S flip flop, J-K flip flop. Introduction to Semiconductors, Diodes, V-I characteristics, Bipolar junction transistors (BJT) and their working, introduction to CC, CB & CE transistor configurations, different configurations and modes of operation of BJT

Course outcomes:

The final outcome of the subject will result into an enhancement in understanding the basic concepts of Core Electrical Engineering subjects. The topics covered under this subject will help to enhance the basic understanding of Electrical machines and power systems and basic electronics.

Evaluation: Evaluation will be continuous and integral part of the class followed by final examination.

List of experiments/demonstrations:

- Basic safety precautions. Introduction and use of measuring instruments – voltmeter, ammeter, multi-meter, oscilloscope. Real-life resistors, capacitors and inductors.
- Measuring the steady-state and transient time-response of R-L, R-C, and R-L-C circuits to a step change in voltage (transient may be observed on a storage oscilloscope). Sinusoidal steady state response of R-L, and R-C circuits – impedance calculation and verification. Observation of phase differences between current and voltage. Resonance in R-L-C circuits.
- Transformers: Observation of the no-load current waveform on an oscilloscope (non- sinusoidal wave-shape due to B-H curve nonlinearity should be shown along with a discussion about harmonics). Loading of a transformer: measurement of primary and secondary voltages and currents, and power.
- Determination of equivalent circuit parameters of a single phase transformer by O.C. and S.C. tests and estimation of voltage regulation and efficiency at various loading conditions and

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verification by load test.

- Demonstration of cut-out sections of machines: dc machine (commutator-brush arrangement), induction machine (squirrel cage rotor), synchronous machine (field winding - slip ring arrangement) and single-phase induction machine.
- Torque Speed Characteristic of separately excited dc motor.
- Synchronous speed of two and four-pole, three-phase induction motors. Direction reversal by change of phase-sequence of connections. Torque-Slip Characteristic of an induction motor. Generator operation of an induction machine driven at super- synchronous speed.
- Synchronous Machine operating as a generator: stand-alone operation with a load. Control of voltage through field excitation.
- Study of V-I Characteristics of Diodes.
- Applications of Diodes and their verification.
- Transistor applications as amplifier and switch.
- Verification of truth table for various gates, Flip-Flops.
- Realizations of Various gates, Flip-Flops etc.
- Verification of De Morgan's theorems.

References

1. D.P. Kothari & I.J. Nagrath, Basic Electrical Engineering, Tata McGraw Hill, latest edition.
2. S.N. Singh, Basic Electrical Engineering, P.H.I., 2013
3. Rajendra Prasad, Fundamentals of Electrical Engineering, Prentice Hall, 2014
4. M.S. Sukhija, T. K. Nagsarkar, Basic Electrical and electronics engineering, Oxford University press, 2012
5. C.L. Wadhwa, Basic Electrical Engineering, New Age International.
6. B.L. Theraja & A.K. Theraja Textbook of Electrical Technology - Vol. 1, S. Chand Publication
7. E. Hughes & I.M. Smith Hughes Electrical Technology Pearson
8. Vincent Del Toro Electrical Engineering Fundamentals



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New Scheme Based On AICTE Flexible Curricula
B.Tech. First Year

Branch- Common to All Disciplines

BT105	Engineering Graphics	2L-0T-2P	3Credits
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Course Objective:

All phases of manufacturing or construction require the conversion of new ideas and design concepts into the basic line language of graphics. Therefore, there are many areas (civil, mechanical, electrical, architectural and industrial) in which the skills of the CAD technicians play major roles in the design and development of new products or construction. Students prepare for actual work situations through practical training in a new state-of-the-art computer designed CAD laboratory using engineering software. This course is designed to address:

- to prepare you to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- to prepare you to communicate effectively
- to prepare you to use the techniques, skills, and modern engineering tools necessary for engineering practice

Course Contents:

Traditional Engineering Graphics: Principles of Engineering Graphics; Orthographic Projection; Descriptive Geometry; Drawing Principles; Isometric Projection; Surface Development; Perspective; Reading a Drawing; Sectional Views; Dimensioning & Tolerances; True Length, Angle, intersection, Shortest Distance.

Computer Graphics: Engineering Graphics Software; -Spatial Transformations; Orthographic Projections; Model Viewing; Co-ordinate Systems; Multi-view Projection; Exploded Assembly; Model Viewing; Animation; Spatial Manipulation; Surface Modelling; Solid Modelling; Introduction to Building Information Modelling (BIM)

(Except the basic essential concepts, most of the teaching part can happen concurrently in the laboratory)

Module 1: Introduction to Engineering Drawing covering, Principles of Engineering Graphics and their significance, usage of Drawing instruments, lettering, Conic sections including the Rectangular Hyperbola (General method only); Cycloid, Epicycloid, Hypocycloid and Involute; Scales – Plain, Diagonal and Vernier Scales;

Module 2: Orthographic Projections covering, Principles of Orthographic Projections- Conventions - Projections of Points and lines inclined to both planes; Projections of planes inclined Planes - Auxiliary Planes;

Module 3: Projections of Regular Solids covering, those inclined to both the Planes- Auxiliary Views; Draw simple annotation, dimensioning and scale. Floor plans that include: windows, doors, and fixtures such as WC, bath, sink, shower, etc.

Module 4: Sections and Sectional Views of Right Angular Solids covering, Prism, Cylinder, Pyramid, Cone – Auxiliary Views; Development of surfaces of Right Regular Solids - Prism, Pyramid, Cylinder and Cone; Draw the sectional orthographic views of geometrical solids, objects from industry and dwellings (foundation to slab only)

Module 5: Isometric Projections covering, Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions; Isometric Views of Lines, Planes, Simple and compound Solids;

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Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions;

Module 6: Overview of Computer Graphics covering, listing the computer technologies that impact on graphical communication, Demonstrating knowledge of the theory of CAD software [such as: The Menu System, Toolbars (Standard, Object Properties, Draw, Modify and Dimension), Drawing Area (Background, Crosshairs, Coordinate System), Dialog boxes and windows, Shortcut menus (Button Bars), The Command Line (where applicable), The Status Bar, Different methods of zoom as used in CAD, Select and erase objects.; Isometric Views of lines, Planes, Simple and compound Solids]

Module 7: Customisation & CAD Drawing consisting of set up of the drawing page and the printer, including scale settings, Setting up of units and drawing limits; ISO and ANSI standards for coordinate dimensioning and tolerancing; Orthographic constraints, Snap to objects manually and automatically; Producing drawings by using various coordinate input entry methods to draw straight lines, Applying various ways of drawing circles;

Module 8: Annotations, layering & other functions covering applying dimensions to objects, applying annotations to drawings; Setting up and use of Layers, layers to create drawings, Create, edit and use customized layers; Changing line lengths through modifying existing lines (extend/lengthen); Printing documents to paper using the print command; orthographic projection techniques; Drawing sectional views of composite right regular geometric solids and project the true shape of the sectioned surface; Drawing annotation, Computer-aided design (CAD) software modeling of parts and assemblies. Parametric and non-parametric solid, surface, and wireframe models. Part editing and two-dimensional documentation of models. Planar projection theory, including sketching of perspective, isometric, multiview, auxiliary, and section views. Spatial visualization exercises. Dimensioning guidelines, tolerancing techniques; dimensioning and scale multi views of dwelling;

Module 9: Demonstration of a simple team design project that illustrates Geometry and topology of engineered components: creation of engineering models and their presentation in standard 2D blueprint form and as 3D wire-frame and shaded solids; meshed topologies for engineering analysis and tool-path generation for component manufacture; geometric dimensioning and tolerancing; Use of solid-modeling software for creating associative models at the component and assembly levels; floor plans that include: windows, doors, and fixtures such as WC, bath, sink, shower, etc. Applying colour coding according to building drawing practice; Drawing sectional elevation showing foundation to ceiling; Introduction to Building Information Modelling (BIM).

Goals & Outcomes:

- Introduction to engineering design and its place in society
- Exposure to the visual aspects of engineering design
- Exposure to engineering graphics standards
- Exposure to solid modelling
- Exposure to computer-aided geometric design
- Exposure to creating working drawings
- Exposure to engineering communication

Text/Reference Books:

1. Bhatt N.D., Panchal V.M. & Ingle P.R., (2014), Engineering Drawing, Charotar Publishing House
2. Shah, M.B. & Rana B.C. (2008), Engineering Drawing and Computer Graphics, Pearson Education
3. Agrawal B. & Agrawal C. M. (2012), Engineering Graphics, TMH Publication
4. Narayana, K.L. & P Kannaiah (2008), Text book on Engineering Drawing, Scitech Publishers
5. (Corresponding set of) CAD Software Theory and User Manuals

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SUPERINTENDENT OF EXAMINATION
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2023-2024

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
New Scheme Based On AICTE Flexible Curricula
B.Tech. First Year

Branch- Common to All Disciplines

BT106	Manufacturing Practices	0L-0T-2P	1Credits
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Course Objective:

Manufacturing is fundamental to the development of any engineering product. The course on Engineering Workshop Practice is intended to expose engineering students to different types of manufacturing / fabrication processes, dealing with different materials such as metals, ceramics, plastics, wood, glass etc. While the actual practice of fabrication techniques is given more weightage, some lectures and video clips available on different methods of manufacturing are also included.

Course Contents:

Lectures & videos: (10 hours)

1. Manufacturing Methods- casting, forming, machining, joining, advanced manufacturing methods (3 lectures)
2. CNC machining, Additive manufacturing (1 lecture)
3. Fitting operations & power tools (1 lecture)
4. Electrical & Electronics (1 lecture)
5. Carpentry (1 lecture)
6. Plastic moulding, glass cutting (1 lecture)
7. Metal casting (1 lecture)
8. Welding (arc welding & gas welding), brazing (1 lecture)

Course Outcomes:

At the end of this course, students will demonstrate the ability to

- Understanding different manufacturing techniques and their relative advantages/ disadvantages with respect to different applications.
- Selection of a suitable technique for meeting a specific fabrication need.
- Acquire a minimum practical skill with respect to the different manufacturing methods and develop the confidence to design & fabricate small components for their project work and also to participate in various national and international technical competitions.
- Introduction to different manufacturing methods in different fields of engineering.
- Practical exposure to different fabrication techniques.
- Creation of simple components using different materials.
- Exposure to some of the advanced and latest manufacturing techniques being employed in the industry.

(ii) Workshop Practice:(60 hours)

1. Machine shop (10 hours)
2. Fitting shop (8 hours)
3. Carpentry (6 hours)
4. Electrical & Electronics(8 hours)
5. Welding shop (8 hours (Arc welding 4 hrs + gas welding 4 hrs)
6. Casting (8 hours)
7. Smithy (6 hours)
8. Plastic moulding & Glass Cutting (6 hours)

Examinations could involve the actual fabrication of simple components, utilizing one or more of the techniques covered above.

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Laboratory Outcomes

- Upon completion of this laboratory course, students will be able to fabricate components with their own hands.
- They will also get practical knowledge of the dimensional accuracies and dimensional tolerances possible with different manufacturing processes.
- By assembling different components, they will be able to produce small devices of their interest.



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New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year

Branch- Common to All Disciplines

BT201	Engineering Physics	2L-1T-2P	4 Credits
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Course Contents:

Module 1: Wave nature of particles and the Schrodinger equation (8 lectures)

Introduction to Quantum mechanics, Wave nature of Particles, operators .Time-dependent and time-independent Schrodinger equation for wavefunction, Application: Particle in a One dimensional Box, Born interpretation, Free-particle wavefunction and wave-packets, v_g and v_p relation Uncertainty principle.

Module 2: Wave optics (8 lectures)

Huygens' principle, superposition of waves and interference of light by wave front splitting and amplitude splitting; Young's double slit experiment, Newton's rings, Michelson interferometer, Mach-Zehnder interferometer.

Farunhofer diffraction from a single slit and a circular aperture, the Rayleigh criterion for limit of resolution and its application to vision; Diffraction gratings and their resolving power.

Module 3: Introduction to solids (8 lectures)

Free electron theory of metals, Fermi level of Intrinsic and extrinsic, density of states, Bloch's theorem for particles in a periodic potential, Kronig-Penney model(no derivation) and origin of energy bands. V-I characteristics of PN junction, Zener diode, Solar Cell, Hall Effect .

Module 4: Lasers (8 lectures)

Einstein's theory of matter radiation interaction and A and B coefficients; amplification of light by population inversion, different types of lasers: gas lasers (He-Ne, CO₂), solid-state lasers(ruby, Neodymium), Properties of laser beams: mono-chromaticity, coherence, directionality and brightness. laser speckles, applications of lasers in science, engineering and medicine. Introduction to Optical fiber, acceptance angle and cone, Numerical aperture, V number, attenuation.

Module 5: Electrostatics in vacuum (8 lectures)

Calculation of electric field and electrostatic potential for a charge distribution; Electric displacement, Basic Introduction to Dielectrics, Gradient, Divergence and curl, Stokes' theorem, Gauss Theorem, Continuity equation for current densities; Maxwell's equation in vacuum and non-conducting medium; Poynting vector.

List of Experiment

1. To determine the dispersive power of prism.
2. To determine the λ of sodium light with the help of newton's Ring.
3. Resolving Power of Telescope.
4. YDSE (Young's double slit Experiment).
5. To determine the frequency of AC mains supply.
6. V-I Characteristics of P-N junction diode.
7. To determine the λ of diode losses by single slit diffraction.
8. To determine the plank's constant with the help of photocell.
9. Hall's effect experiment.
10. Calibration of ammeter by using reference cell.

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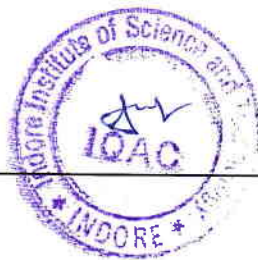


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2023-2024

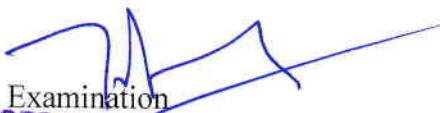
11. To study the effect of temperature on reverse saturation current in P-N junction diode and to determine the energy band gap.
12. To determine the λ of sodium by using plane diffraction grating.
13. To determine the prominent lines of mercury source by plane diffraction grating.
14. To determine the numerical aperture of an optical fiber.
15. To determine λ of given laser by plane diffraction grating.

Suggested Reference Books

1. A. Ghatak, Optics.
2. O. Svelto, Principles of Lasers.
3. David Griffiths, Introduction to Electrodynamics.
4. D.J. Griffiths, Quantum Mechanics.
5. Halliday & Resnick, Physics.




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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL
New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year (II Semester)
Branch- Common to All Disciplines

BT202	MATHEMATICS-II	3L-1T-0P	4 Credits
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OBJECTIVES: The objective of this course is to familiarize the prospective engineers with techniques in Ordinary and partial differential equations, complex variables and vector calculus. It aims to equip the students to deal with advanced level of mathematics and applications that would be essential for their disciplines. More precisely, the objectives are:

- To introduce effective mathematical tools for the solutions of ordinary and partial differential equations that model physical processes.
- To introduce the tools of differentiation and integration of functions of complex variable that are used in various techniques dealing engineering problems.
- To acquaint the student with mathematical tools available in vector calculus needed various field of science and engineering.

Course Contents:

Module 1: Ordinary Differential Equations I : (6 hours) : Differential Equations of First Order and First Degree (Leibnitz linear, Bernoulli's, Exact), Differential Equations of First Order and Higher Degree, Higher order differential equations with constants coefficients, Homogeneous Linear Differential equations, Simultaneous Differential Equations.

Module 2: Ordinary differential Equations II: (8 hours) : Second order linear differential equations with variable coefficients, Method of variation of parameters, Power series solutions; Legendre polynomials, Bessel functions of the first kind and their properties.

Module 3: Partial Differential Equations : (8 hours) : Formulation of Partial Differential equations, Linear and Non-Linear Partial Differential Equations, Homogeneous Linear Partial Differential Equations with Constants Coefficients.

Module 4: Functions of Complex Variable : (8 hours) : Functions of Complex Variables: Analytic Functions, Harmonic Conjugate, Cauchy-Riemann Equations (without proof), Line Integral, Cauchy-Goursat theorem (without proof), Cauchy Integral formula (without proof), Singular Points, Poles & Residues, Residue Theorem, Application of Residues theorem for Evaluation of Real Integral (Unit Circle).

Module 5: Vector Calculus : (10 hours) : Differentiation of Vectors, Scalar and vector point function, Gradient, Geometrical meaning of gradient, Directional Derivative, Divergence and Curl, Line Integral, Surface Integral and Volume Integral, Gauss Divergence, Stokes and Green theorems.

Textbooks/References:

1. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002.
2. Erwin kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
3. W. E. Boyce and R. C. DiPrima, Elementary Differential Equations and Boundary Value Problems, 9th Edn., Wiley India, 2009.
4. S. L. Ross, Differential Equations, 3rd Ed., Wiley India, 1984.
5. E. A. Coddington, An Introduction to Ordinary Differential Equations, Prentice Hall India, 1995.
6. E. L. Ince, Ordinary Differential Equations, Dover Publications, 1958.
7. J. W. Brown and R. V. Churchill, Complex Variables and Applications, 7th Ed., McGraw Hill, 2004.
8. N.P. Bali and Manish Goyal, A text book of Engineering Mathematics, Laxmi Publications, Reprint, 2008.
9. B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 36th Edition, 2010.



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New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year

Branch- Common to All Disciplines

BT203	Basic Mechanical Engineering	3L-0T-2P	4 Credits
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Course Contents:

Unit I :

Materials : Classification of engineering material, Composition of Cast iron and Carbon steels, Iron Carbon diagram. Alloy steels their applications. Mechanical properties like strength, hardness, toughness , ductility, brittleness , malleability etc. of materials , Tensile test- Stress-strain diagram of ductile and brittle materials , Hooks law and modulus of elasticity, Hardness and Impact testing of materials, BHN etc.

Unit II:

Measurement: Concept of measurements, errors in measurement, Temperature, Pressure, Velocity, Flow strain, Force and torque measurement, Vernier caliper, Micrometer, Dial gauge, Slip gauge, Sine-bar and Combination set.

Production Engineering: Elementary theoretical aspects of production processes like casting, carpentry, welding etc Introduction to Lathe and Drilling machines and their various operations.

Unit III :

Fluids : Fluid properties pressure, density and viscosity etc. Types of fluids , Newton's law of viscosity , Pascal's law , Bernoulli's equation for incompressible fluids, Only working principle of Hydraulic machines, pumps, turbines, Reciprocating pumps .

Unit IV:

Thermodynamics : Thermodynamic system, properties, state, process, Zeroth, First and second law of thermodynamics, thermodynamic processes at constant pressure, volume, enthalpy & entropy.

Steam Engineering : Classification and working of boilers, mountings and accessories of boilers, Efficiency and performance analysis, natural and artificial draught, steam properties, use of steam tables.

Unit V:

Reciprocating Machines :

Working principle of steam Engine, Carnot, Otto, Diesel and Dual cycles P-V & T-S diagrams and its efficiency, working of Two stroke & Four stroke Petrol & Diesel engines. Working principle of compressor.

Reference Books:

- 1- Kothandaraman & Rudramoorthy, Fluid Mechanics & Machinery, New Age .
- 2- Nakra & Chaudhary , Instrumentation and Measurements, TMH.
- 3- Nag P.K, Engineering Thermodynamics , TMH .
- 4- Ganesan , Internal Combustion Engines, TMH .
- 5- Agrawal C M, Basic Mechanical Engineering ,Wiley Publication.
- 6- Achuthan M. , Engineering Thermodynamics ,PHI.

List of Suggestive Core Experiments:

Theory related Eight to Ten experiments including core experiments as follows:

- 1- Study of Universal Testing machines.
- 2- Linear and Angular measurement using, Micrometer, Slip Gauges, Dial Gauge and Sine-bar.
- 3- Study of Lathe Machine.
- 4- Study of Drilling Machines.
- 5- Verification of Bernoulli's Theorem.
- 6- Study of various types of Boilers.
- 7- Study of different IC Engines.
- 8- Study of different types of Boilers Mountings and accessories.



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New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year

Branch- Common to All Disciplines

BT204	Basic Civil Engineering & Mechanics	3L-0T-2P	4 Credits
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Course Contents:

Unit I Building Materials & Construction

Stones, bricks, cement, lime, timber-types, properties, test & uses, laboratory tests concrete and mortar Materials: Workability, Strength properties of Concrete, Nominal proportion of Concrete preparation of concrete, compaction, curing.
Elements of Building Construction, Foundations conventional spread footings, RCC footings, brick masonry walls, plastering and pointing, floors, roofs, Doors, windows, lintels, staircases – types and their suitability

Unit II Surveying & Positioning:

Introduction to surveying Instruments – levels, theodolites, plane tables and related devices. Electronic surveying instruments etc. Measurement of distances – conventional and EDM methods, measurement of directions by different methods, measurement of elevations by different methods. Reciprocal leveling.

Unit III Mapping & sensing:

Mapping details and contouring, Profile Cross sectioning and measurement of areas, volumes, application of measurements in quantity computations, Survey stations, Introduction of remote sensing and its applications.

Engineering Mechanics

Unit IV

Forces and Equilibrium: Graphical and Analytical Treatment of Concurrent and non-concurrent Co- planner forces, free Diagram, Force Diagram and Bow's notations, Application of Equilibrium Concepts: Analysis of plane Trusses: Method of joints, Method of Sections. Frictional force in equilibrium problems

Unit – V

Centre of Gravity and moment of Inertia: Centroid and Centre of Gravity, Moment Inertia of Area and Mass, Radius of Gyration, Introduction to product of Inertia and Principle Axes. Support Reactions, Shear force and bending moment Diagram for Cantilever & simply supported beam with concentrated, distributed load and Couple.

Reference Books:

1. S. Ramamrutam & R.Narayanan; Basic Civil Engineering, Dhanpat Rai Pub.
2. Prasad I.B., Applied Mechanics, Khanna Publication.
3. Punmia, B.C., Surveying, Standard book depot.
4. Shesha Prakash and Mogaveer; Elements of Civil Engg & Engg. Mechanics; PHI
5. S.P.Timoshenko, Mechanics of structure, East West press Pvt.Ltd.
6. Surveying by Duggal – Tata McGraw Hill New Delhi.
7. Building Construction by S.C. Rangwala- Charotar publications House, Anand.
8. Building Construction by Grucharan Singh- Standard Book House, New Delhi
9. Global Positioning System Principles and application- Gopi, TMH
10. R.C. Hibbler – Engineering Mechanics: Statics & Dynamics.
11. A. Boreasi & Schmidt- Engineering Mechines- statics dynamics, Thomson' Books
12. R.K. Rajput, Engineering Mechanics S.Chand & Co.

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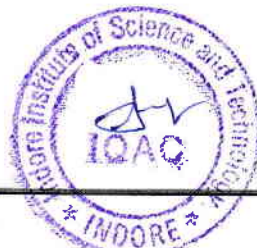
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List of suggestive core Experiments:

Students are expected to perform minimum ten experiments from the list suggested below by preferably selecting experiments from each unit of syllabus.

1. To perform traverse surveying with prismatic compass, check for local attraction and determine corrected bearings and to balance the traverse by Bowditch's rule.
2. To perform leveling exercise by height of instrument of Rise and fall method.
3. To measure horizontal and vertical angles in the field by using Theodolite.
4. To determine (a) normal consistency (b) Initial and Final Setting time of a cement Sample.
5. To determine the workability of fresh concrete of given proportions by slump test or compaction factor test.
6. To determine the Compressive Strength of brick.
7. To determine particle size distribution and fineness modulus of coarse and fine Aggregate.
8. To verify the law of Triangle of forces and Lami's theorem.
9. To verify the law of parallelogram of forces.
10. To verify law of polygon of forces
11. To find the support reactions of a given truss and verify analytically.
12. To determine support reaction and shear force at a given section of a simply Supported beam and verify in analytically using parallel beam apparatus.
13. To determine the moment of inertia of fly wheel by falling weight method.
14. To verify bending moment at a given section of a simply supported beam.



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New Scheme Based On AICTE Flexible Curricula
B. Tech. First Year

Branch- Common to All Disciplines

BT205	Basic Computer Engineering	3L-0T-2P	4 Credits
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Course Contents:

UNIT I

Computer: Definition, Classification, Organization i.e. CPU, register, Bus architecture, Instruction set, Memory & Storage Systems, I/O Devices, and System & Application Software. Computer Application in e-Business, Bio-Informatics, health Care, Remote Sensing & GIS, Meteorology and Climatology, Computer Gaming, Multimedia and Animation etc.

Operating System: Definition, Function, Types, Management of File, Process & Memory. Introduction to MS word, MS powerpoint, MS Excel

UNIT II

Introduction to Algorithms, Complexities and Flowchart, Introduction to Programming, Categories of Programming Languages, Program Design, Programming Paradigms, Characteristics or Concepts of OOP, Procedure Oriented Programming VS object oriented Programming. Introduction to C++: Character Set, Tokens, Precedence and Associativity, Program Structure, Data Types, Variables, Operators, Expressions, Statements and control structures, I/O operations, Array, Functions.

UNIT III

Object & Classes, Scope Resolution Operator, Constructors & Destructors, Friend Functions, Inheritance, Polymorphism, Overloading Functions & Operators, Types of Inheritance, Virtual functions. Introduction to Data Structures.

UNIT IV

Computer Networking: Introduction, Goals, ISO-OSI Model, Functions of Different Layers, Internetworking Concepts, Devices, TCP/IP Model. Introduction to Internet, World Wide Web, E-commerce

Computer Security Basics: Introduction to viruses, worms, malware, Trojans, Spyware and Anti-Spyware Software, Different types of attacks like Money Laundering, Information Theft, Cyber Pornography, Email spoofing, Denial of Service (DoS), Cyber Stalking, Logic bombs, Hacking Spamming, Cyber Defamation, phishing Security measures Firewall, Computer Ethics & Good Practices, Introduction of Cyber Laws about Internet Fraud, Good Computer Security Habits.

UNIT V

Data base Management System: Introduction, File oriented approach and Database approach, Data Models, Architecture of Database System, Data independence, Data dictionary, DBA, Primary Key, Data definition language and Manipulation Languages.

Cloud computing: definition, cloud infrastructure, cloud segments or service delivery models (IaaS, PaaS and SaaS), cloud deployment models/ types of cloud (public, private, community and hybrid clouds), Pros and Cons of cloud computing

List of Experiment

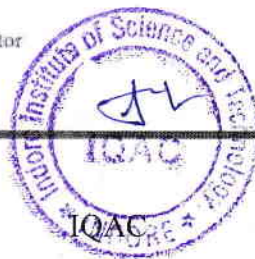
01. Study and practice of Internal & External DOS commands.
02. Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, ps etc.
03. Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel,
04. Creation and editing of Text files using MS- word.
05. Creation and operating of spreadsheet using MS-Excel.
06. Creation and editing power-point slides using MS- power point
07. Creation and manipulation of database table using SQL in MS-Access.
08. WAP to illustrate Arithmetic expressions
09. WAP to illustrate Arrays.
10. WAP to illustrate functions.
11. WAP to illustrate constructor & Destructor
12. WAP to illustrate Object and classes.

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13. WAP to illustrate Operator overloading
14. WAP to illustrate Function overloading
15. WAP to illustrate Derived classes & Inheritance
16. WAP to insert and delete an element from the Stack
17. WAP to insert and delete an element from the Queue
18. WAP to insert and delete an element from the Linked List

Recommended Text Books:

1. Fundamentals of Computers : E Balagurusamy, TMH
2. Basic Computer Engineering: Silakari and Shukla, Wiley India
3. Fundamentals of Computers : V Rajuraman, PHI
4. Information Technology Principles and Application: Ajoy Kumar Ray & Tinku Acharya PHI.

Recommended Reference Books:

1. Introduction of Computers : Peter Norton, TMH
2. Object Oriented Programming with C++ :E.Balagurusamy, TMH
3. Object Oriented Programming in C++: Rajesh K.Shukla, Wiley India
4. Concepts in Computing: Kenneth Hoganson, Jones & Bartlett.
5. Operating Systems – Silberschatz and Galvin - Wiley India
6. Computer Networks:Andrew Tananbaum, PHI
7. Data Base Management Systems, Korth, TMH
8. Cloud Computing, Kumar, Wiley India




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2023-2024

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year


Branch- Common to All Disciplines

BT206	Language Lab and Seminars	0L-0T-2P	1 Credits
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Course objective: This course intends to impart practical training in the use of English Language for Communicative purposes and aims to develop students' personality through language Laboratory.

Topics to be covered in the Language laboratory sessions:

1. Introducing oneself, family, social roles.
2. Public Speaking and oral skills with emphasis on conversational practice, extempore speech, JAM(Just a minute sessions), describing objects and situations, giving directions, debate, telephonic etiquette.
3. Reading Comprehension: Intensive reading skills, rapid reading, and reading aloud (Reading material to be selected by the teacher).
4. To write a book review. Standard text must be selected by the teacher.
5. Role plays: preparation and delivery topic to be selected by teacher/faculty.


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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [CSE- Data Science/Data Science]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CD301	HSMC-3	Technical Communication	70	20	10	-	-	100	3	1	-	4
2.	CD302	DC-1	Introduction to Probability and Statistics	70	20	10	-	-	100	3	1	-	4
3.	CD303	DC-2	Data Structures	70	20	10	30	20	150	3	-	2	4
4.	CD304	DC-3	Database Management Systems	70	20	10	30	20	150	3	-	2	4
5.	CD305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CD306	DLC-3	Computer Workshop/ Introduction to python - I	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50	-	-	4	2
8.	BT307	DLC-4	Internship-III: 90 hrs Internship based on using various softwares	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr/credit	1 Hr/credit	2 Hr/Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	AL301	HSMC-3	Technical Communication	70	20	10	-	-	100	3	1	-	4
2.	AL302	DC-1	Introduction to Probability and Statistics	70	20	10	-	-	100	3	1	-	4
3.	AL303	DC-2	Data Structures	70	20	10	30	20	150	3	-	2	4
4.	AL304	DC-3	Artificial Intelligence	70	20	10	30	20	150	3	-	2	4
5.	AL305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	AL306	DLC-3	Computer Workshop/ Introduction to python - 1	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-1 completed at 1 year level	-	-	-	-	50	50	-	-	4	2
8.	BT307	DLC-4	Internship-II : 90 hrs Internship based on using various softwares	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security
Including Block Chain Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IS301	HSMC-3	Technical Communication	70	20	10	-	-	100	3	1	-	4
2.	IS302	DC-1	Discrete Structures	70	20	10	-	-	100	3	1	-	4
3.	IS303	DC-2	Data Structures	70	20	10	30	20	150	3	-	2	4
4.	IS304	DC-3	Introduction to Information Security	70	20	10	30	20	150	3	-	2	4
5.	IS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	IS306	DLC-3	Computer Workshop: Introduction to Python	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	Internship-II: 90 hrs Internship based on using various softwares	To be completed anytime during Third- fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [Mechanical Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	ME302	DC-1	Thermodynamics	70	20	10	-	-	100	3	1	-	4
3.	ME303	DC-2	Materials Technology	70	20	10	30	20	150	2	-	2	4
4.	ME304	DC-3	Strength of Material	70	20	10	30	20	150	3	-	2	4
5.	ME305	DC-4	Manufacturing Process	70	20	10	30	20	150	3	-	2	4
6.	ME306	DLC-3	Thermal Engg Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 Year Level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship-II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [Information Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	IT302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	IT303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	IT304	DC-3	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
5.	IT305	DC-4	Digital Circuits & System	70	20	10	30	20	150	3	-	2	4
6.	IT306	DLC-3	JAVA Programming Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	EC302	DC-1	Electronic Measurement & Instrumentation	70	20	10	-	-	100	3	1	-	4
3.	EC303	DC-2	Digital System Design	70	20	10	30	20	150	3	-	2	4
4.	EC304	DC-3	Electronic Devices	70	20	10	30	20	150	3	-	2	4
5.	EC305	DC-4	Network Analysis	70	20	10	30	20	150	3	-	2	4
6.	EC306	DLC-3	EMI Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science/Computer Science & Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CS302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	CS303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	CS304	DC-3	Digital Systems	70	20	10	30	20	150	5	-	2	4
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares--Internship-II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	34
9.	BT308	MC	Indian Constitution	Non-credit course									
			NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [Civil Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	CE302	DC-1	Construction Materials	70	20	10	-	-	100	3	1	-	4
3.	CE303	DC-2	Surveying	70	20	10	30	20	150	3	-	2	4
4.	CE304	DC-3	Building Planning & Architecture	70	20	10	30	20	150	3	-	2	4
5.	CE305	DC-4	Strength of Materials	70	20	10	30	20	150	3	-	2	4
6.	CE306	DLC-3	Study of Historical & Ancient Civil Engineering Practices	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares - Internship -II	To be completed anytime during Third/ Fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	180	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
	NC301		NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security Including Block Chain Technology]

(For batches admitted in July, 2020 (w.e.f. Jan, 2022))

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	IS401	BSC	Probability, Statistics and Linear Algebra	70	20	10	-	-	100	3	1	-	4
2.	IS402	DC	Fundamentals of IoT	70	20	10	30	20	150	4	0	2	5
3.	IS403	DC	Operating Systems	70	20	10	30	20	150	4	0	2	5
4.	IS404	DC	Computer Organization & Architecture	70	20	10	30	20	150	3	0	2	4
5.	IS405	DC	Computer Networks	70	20	10	30	20	150	3	0	2	4
6.	IS496	DIU*	Java Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	Internship II: 90 hrs Internship based on using various softwares	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	17	1	12	24
8.	BT408	MC	Android Application Development	Audit course									
9.	BT4091	MC	Indian Knowledge System	Audit course									
	NC001		NSS/NCC										

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MST: Minimum of two mid semester tests to be conducted.
*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [CSE - Data Science/Data Science]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CD401	BSC	Introduction to Discrete Structure & Linear Algebra	70	20	10	-	-	160	3	1	-	4
2.	CD402	DC	Analysis & Design of Algorithms	70	20	10	30	20	150	4	0	2	5
3.	CD403	DC	Software Engineering	70	20	10	30	20	150	4	0	2	5
4.	CD404	DC	Introduction to Data Science	70	20	10	30	20	150	3	0	2	4
5.	CD405	DC	Operating Systems	70	20	10	30	20	150	3	0	2	4
6.	CD406	DLC*	Python for Data Science	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	Internship II: 90 hrs Internship based on using various softwares	To be completed anytime during fourth semester. Its evaluation/credit to be added in 5th semester.								3	
Total				350	100	50	150	100	750	17	1	12	24
8.	BT408	MC	Cyber Security	Audit course									
9.	BT4091	MC	Indian Knowledge System	Audit course									
	NC001		NSS/NCC										

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	AL401	BSC	Introduction to Discrete Structure & Linear Algebra	70	20	10	-	-	100	3	1	-	4
2.	AL402	EC	Analysis & Design of Algorithms	70	20	10	30	20	150	4	0	2	5
3.	AL403	DC	Software Engineering	70	20	10	30	20	150	4	0	2	5
4.	AL404	OC	Computer Organization & Architecture	70	20	10	30	20	150	3	0	2	4
5.	AL405	OC	Machine Learning	70	20	10	30	20	150	3	0	2	4
6.	AL406	DLC*	Java Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	Internship II: 90 hrs Internship based on using various softwares	To be completed anytime during fourth semester. Its evaluation/credit to be added in 6th semester.								3	
Total				350	100	50	150	100	750	17	1	12	24
8.	BT408	MC	Cyber Security	Audit course									
9.	BT409	MC	Indian Knowledge System	Audit course									
	NC001		NSS/NCC										

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MST: Minimum of two mid semester tests to be conducted.
*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Mechanical Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	300	3	1	-	4
2.	ME402	DC	INSTRUMENTATION & CONTROL	70	20	10	30	20	150	2	1	2	4
3.	ME403	DC	THEORY OF MACHINES	70	20	10	30	20	150	3	1	2	5
4.	ME404	DC	FLUID MECHANICS	70	20	10	30	20	150	3	1	2	5
5.	ME405	DC	MANUFACTURING TECHNOLOGY	70	20	10	30	20	150	3	0	2	4
6.	ME406	DLC*	SOFTWARE LAB	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship -II	To be completed anytime during fourth semester. Its evaluation/credit to be added in 6th semester.								3	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

*A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MSE: Minimum of two mid semester tests to be conducted.
*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [Information Technology]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	BT401	BSC	Mathematics- III	70	20	10	-	-	100	3	1	-	4
2.	IT402	DC	Computer Architecture	70	20	10	-	-	100	2	1	-	3
3.	IT403	DC	Analysis and Design of Algorithm	70	20	10	30	20	150	3	1	2	5
4.	IT404	DC	Analog & Digital Communication	70	20	10	30	20	150	3	1	2	5
5.	IT405	DC	Data base Management System	70	20	10	30	20	150	3	0	2	4
6.	IT406	DLC*	Introduction to MATLAB, Scilab/Web Design	-	-	-	30	20	50	-	-	4	2
7.	IT407	DLC*	Open Source Software Lab (Linux and R)	-	-	-	30	20	50	-	-	2	1
8.	BT408	DLC	90 hrs Internship based on using various software's -Internship-II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	14	4	12	24
9.	BT409	NC	Cyber Security	Non-credit course									
10.	BT409I		Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC	Non-credit course									

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) | Electronics & Communication Engineering|

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	EC402	DC	Signals & Systems	70	20	10	30	20	150	2	1	2	4
3.	EC403	DC	Analog Communication	70	20	10	30	20	150	3	1	2	5
4.	EC404	DC	Control System	70	20	10	30	20	150	3	1	2	5
5.	EC405	DC	Analog Circuits	70	20	10	30	20	150	3	0	2	4
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship-II	To be completed anytime during fourth semester. Its evaluation/credit to be added in 6th semester.								3	
			Total	350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MSE: Minimum of two mid semester tests to be conducted.
*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

IV Semester
Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	BT401	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	CS402	DC	Analysis Design of Algorithm	70	20	10	30	20	150	2	1	2	4
3.	CS403	DC	Software Engineering	70	20	10	30	20	150	3	1	2	5
4.	CS404	DC	Computer Org. & Architecture	70	20	10	30	20	150	3	1	2	5
5.	CS405	DC	Operating Systems	70	20	10	30	20	150	3	0	2	4
6.	CS406	DLC*	Programming Practices	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship-II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

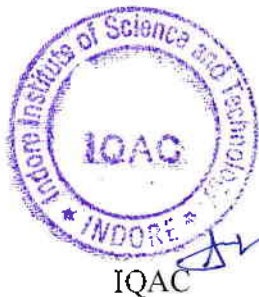
*A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Chemical Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	300	3	1	-	4
2.	CM402	BT	Fluid Particle Mechanics	70	20	10	30	20	150	4	0	2	5
3.	CM403	DC	Fluid Mechanics	70	20	10	30	20	150	4	0	2	5
4.	CM404	DC	Fuel Technology	70	20	10	30	20	150	3	0	2	4
5.	CM405	DC	Inorganic Process Technology	70	20	10	30	20	150	3	0	2	4
6.	CM406	DLC*	Computer Programming-II	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship -II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	17	1	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

*A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MST: Minimum of two mid semester tests to be conducted.
*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Civil Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CE402	DC	Construction Technology	70	20	10	30	20	150	2	1	2	4
3.	CE403	DC	Structural Analysis-I	70	20	10	30	20	150	3	1	2	5
4.	CE404	DC	Transportation Engineering-I	70	20	10	30	20	150	3	1	2	5
5.	CE405	DC	Engineering Geology & Remote Sensing	70	20	10	30	20	150	3	0	2	4
6.	CE406	BLC*	Software Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship-II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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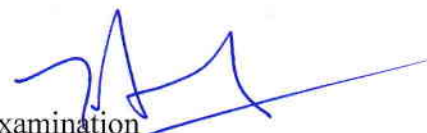
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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula V Semester Bachelor of Technology (B.Tech.) [CSE - Data Science/Data Science]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CD501	DC	Theory of Computation	70	20	10	30	20	150	3	-	2	4
2.	CD502	DC	Machine Learning	70	20	10	30	20	150	3	-	2	4
3.	CD503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	CD504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CD505	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	4	2
6.	CD506	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CD508	P	Minor Projects-I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOCs Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives	Open Electives
CD 503 (A) Data Mining & Warehousing	CD 504 (A) Computer Graphics & Visualization
CD 503 (B) Pattern Recognition	CD 504 (B) Data Compression
CD 503 (C) Introduction to Toolkits for Data Science	CD 504 (C) Computer Organization & Architecture


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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula

V Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security Including Block Chain Technology]

(w.e.f. July, 2022)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem						Term work Lab Work & Sessional
1.	IS501	DC	Foundations of Block Chain Technology	70	20	10	30	20	150	3	-	2	4
2.	IS502	DC	Database Management Systems	70	20	10	30	20	150	3	-	2	4
3.	IS503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	IS504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	IS505	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	4	2
6.	IS506	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	ISS08	P	Minor Project- I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	Additional credits can be earned through successful completion of credit based MOOCs Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	330	750	12	1	22	24

Departmental Electives		Open Electives	
IS 503 (A) Security Assessment and Risk Analysis		IS 504 (A) Cyber Security Operations	
IS 503 (B) Software Engineering		IS 504 (B) Digital Forensic	
IS 503 (C) E-Commerce Security		IS 504 (C) Cyber Law & Emerging Jurisprudence	



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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula

V Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	AI-501	DC	Operating Systems	70	20	10	30	20	150	3	-	2	4
2.	AI-502	DC	Database Management Systems	70	20	10	30	20	150	3	-	2	4
3.	AI-503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	AI-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	AI-505	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	4	2
6.	AI-506	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	4	2
7.	AI-507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	AI-508	P	Minor Project-I	-	-	-	-	50	50			4	2
10.	Additional Credits*	Additional credits can be earned through successful completion of credit based MOOCs Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives		Open Electives	
AI-503 (A) Information Retrieval		AI-504 (A) AI in Health Care	
AI-503 (B) Deep Learning		AI-504 (B) Natural Language Processing	
AI-503 (C) Optimization Techniques in Machine Learning		AI-504 (C) Computational Intelligence	

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Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

V Semester Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f. July 2020) Revised

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT 501	DC	Operating System	70	20	10	30	20	150	3	-	2	4
2.	IT 502	DC	Computer Network	70	20	10	30	20	150	3	-	2	4
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	100	3	1	-	4
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	100	3	-	-	4
5.	IT 505	D Lab	Advanced Java Lab	-	-	-	30	20	50	-	1	2	2
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	50	-	1	2	2
7.	BT 407	IN	Evaluation of Internship-II					100	100			6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	IT 508	P	Minor Project /Seminar	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	3	18	24

Departmental Elective-1

IT 503 (A) Theory of Computation
IT 503 (B) Microprocessor & Interfacing
IT 503 (C) Object Oriented Analysis and Design

Open Elective-1

IT 504 (A) Artificial Intelligence
IT 504 (B) E Commerce & Governance
IT 504 (C) Java Programming

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

V Semester

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech) Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

(w.e.f. July, 2019)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS-501	DC	Theory of Computation	70	20	10	30	20	150	3	-	2	4
2.	CS-502	DC	Database Management Systems	70	20	10	30	20	150	3	-	2	4
3.	CS -503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	CS -504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CS -505	D Lab	Lab (Linux)	-	-	-	30	20	50	-	-	4	2
6.	CS -506	O/E Lab	Lab (Python)	-	-	-	30	20	50	-	-	4	2
7.	BT -487	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CS -508	P	Minor Project-1	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives	Open Electives
CS 503 (A) Data Analytics	CS 504 (A) Internet and Web Technology *
CS 503 (B) Pattern Recognition	CS 504 (B) Object Oriented Programming **
CS 503 (C) Cyber Security	CS 504 (C) Introduction to Database Management Systems**

* Can be offered to students of all branches including CSE
** Can be offered to students of all branches except CSE and IT

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Mechanical Engineering (w.e.f. July, 2019)

V Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contract Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exams.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ME 501	DC	I C Engines	70	20	10	30	20	150	3	0	2	4
2.	ME 502	DC	Mechanical Vibration	70	20	10	30	20	150	2	1	2	4
3.	ME 503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	ME 504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	ME 505	D Lab	FEM/CFD Lab	-	-	-	30	20	50	-	-	4	2
6.	ME 506	O/E Lab	Python	-	-	-	30	20	50	-	-	4	2
7.	BT 407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	ME 508	P	Minor Project I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits		Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
			Total	280	80	40	120	230	750	12	1	22	24

Departmental Electives		Open Electives	
ME 503 (A) Mechatronics		ME 504 (A) Industrial Engineering & Ergonomics	
ME 503 (B) Dynamics of Machine		ME 504 (BITQM and SQC	
ME 503 (C) Alternate Automotive Fuels & Emissions		ME 504 (C) Finite Element Method	

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Electronics & Communication Engg. (w.e.f. July, 2019)

V Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	EC 501	DC	Microprocessor & its Application	70	20	10	30	20	150	2	1	2	4
2.	EC 502	DC	Digital Communication	70	20	10	30	20	150	2	1	2	4
3.	EC 503	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	EC 504	OE	Open Elective	70	20	10	-	-	100	3	-	0	3
5.	EC 505	D Lab	CNTL Lab	-	-	-	30	20	50	-	-	4	2
6.	EC 506	O/E Lab	Matlab Programming	-	-	-	30	20	50	-	-	4	2
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	EC 508	P	Minor Project 1	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	11	2	22	24

Departmental Electives	Open Electives
EC 503 (A) CNTL	EC 504 (A) EMT (Electro Magnetic (Theory)
EC 503 (B) Mobile Communication	EC 504 (B) Computer System Organisation
EC 503 (C) Advanced Control system	EC 504 (C) Process Control Instrumentation

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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V Semester

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech) Chemical Engineering (w.e.f. July, 2019)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CM-501	DC	Mass Transfer-I	70	20	10	30	20	150	3	-	2	4
2.	CM-502	DC	Heat Transfer	70	20	10	30	20	150	3	-	2	4
3.	CM-503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	CM-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CM-505	D Lab	Chemical Process Plant Simulation Lab-I	-	-	-	30	20	50	-	-	4	2
6.	CM-506	O/E Lab	Organic Process Technology Lab	-	-	-	30	20	50	-	-	4	2
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CM-508	P	Minor Project-I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	250	750	12	1	22	24

Departmental Electives	Open Electives
CM 503 (A) Computation Methods in Chemical Engineering	CM 504 (A) Organic Process Technology
CM 503 (B) Pulp & paper Technology	CM 504 (B) Fuel Cell Technology
CM 503 (C) Pharmaceutical Technology	CM 504 (C) Energy Management

1 Hr Lecture 1 Hr Tutorial 2 Hr Practical
 1 Credit 1 Credit 1 Credit

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2023-2024

Rajiv Gandhi Proddhoski Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech) Civil Engineering (w.e.f. July, 2019)

V Semester

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CE-501	DC	Fluid Mechanics I	70	20	10	30	20	150	2	1	2	4
2.	CE-502	DC	Transportation Engg II	70	20	10	30	20	150	2	1	2	4
3.	CE-503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	CE-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CE-505	D Lab	Quantity surveying & Costing	-	-	-	30	20	50	-	-	4	2
6.	CE-506	O/E Lab	Material Testing Lab	-	-	-	30	20	50	-	-	4	2
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CE-508	P	Field Visit, Case Study and Seminar	-	-	-	-	50	50			4	2
10.	Additional Credits*		* Additional credits can be earned through successful completion of credit based MOOC'S Courses available on SWAYAM platform (MHRD) at respective UG level.										
Total				280	80	40	120	230	750	51	2	22	24

Departmental Electives	Open Electives
CE503 (A) Structural Analysis-II	CE504 (A) Urban and town planning
CE503 (B) Construction planning and management	CE504 (B) Remote Sensing and GIS
CE503 (C) Quantity surveying & Costing	CE504 (C) Renewable energy resources
CE503 (D) Marine Construction	CE504 (D) Entrepreneurship development and management

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

VI Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial
Intelligence and Machine Learning] **(w.e.f. Jan, 2023)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			1	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	AL601	DC	Theory of Computation	70	20	10	30	20	150	2	1	2	4
2.	AL602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	AL603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	AL604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	AL605	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	AL606	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
7.	AL607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	AL608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	10	24

Departmental Electives	Open Electives
AL 603 (A) Image and Video Processing	AL604(A) Cloud Computing
AL 603 (B) Data and Visual Analytics	AL604(B) Information security & Management
AL603 (C) Pattern Recognition	AL604 (C) Intelligent Systems for Robotics

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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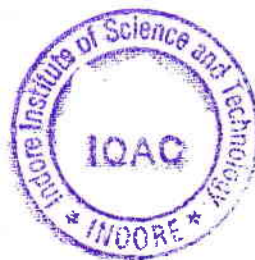
VI Semester

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.) Computer Science and Engineering/ **(w.e.f. Jan, 2020)**
 Computer Engineering/Computer Science & Technology

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			I	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS601	DC	Machine Learning	70	20	10	30	20	150	2	1	2	4
2.	CS602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	CS603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CS604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CS605	D Lab	Data Analytics Lab	-	-	-	30	20	50	-	-	6	3
6.	CS606	O/E Lab	Skill Development Lab	-	-	-	30	20	50	-	-	6	3
7.	CS607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CS608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Advanced Computer Architecture	604(A) Knowledge Management
603 (B) Computer Graphics & Visualization	604(B) Project Management
603 (C) Compiler Design	604 (C) Rural Technology & Community Development

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula

VI Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security Including Block Chain Technology]

[w.e.f. Jan, 2023]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	IS601	DC	Data Analytics in IOT and Blockchain	70	20	10	30	20	150	2	1	2	4
2.	IS602	DC	Web Technology	70	20	10	30	20	150	2	1	2	4
3.	IS603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	IS604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	IS605	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	IS606	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
7.	IS607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	IS608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
IS 603 (A) Cyber Security	IS 604(A) Cognitive IoT
IS 603 (B) Bitcoin & Cryptocurrency Technologies	IS 604(B) Theory of Computation
IS 603 (C) Industry Use Cases using Blockchain	IS 604(C) Wireless Sensor Networks


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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

VI Semester Bachelor of Technology (B.Tech.) [CSE - Data Science/Data Science]

(w.e.f. Jan, 2023)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CD601	DC	Deep Learning	70	20	10	30	20	150	2	1	2	4
2.	CD602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	CD603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CD604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CD605	D.Lab	DE Lab	-	-	-	30	20	50	-	-	6	3
6.	CD606	O/E Lab	OE Lab	-	-	-	30	20	50	-	-	6	3
7.	CD607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CD608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
CD 603 (A) Big Data Analytics	CD 604(A) Information Extraction and Retrieval
CD 603 (B) Data Acquisition	CD 604(B) Agile Software Development
CD 603 (C) Advanced Database Management Systems	CD 604 (C) Natural Language Processing

1 Hr/Lecture	1 Hr/Tutorial	2 Hr/Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Mechanical Engineering **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ME601	DC	Thermal Engineering and Gas Dynamics	70	20	10	30	20	150	2	1	2	4
2.	ME602	DC	Machine Component Design	70	20	10	30	20	150	2	1	2	4
3.	ME603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	ME604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	ME605	D Lab	CAD Lab	-	-	-	30	20	50	-	-	6	3
6.	ME606	O/E Lab	RDBMS	-	-	-	30	20	50	-	-	6	3
7.	ME607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	ME608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ²	Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives		Open Electives	
603 (A) Turbo Machinery		604(A) Robotics	
603 (B) Computer Aided Engineering		604(B) Optimization Techniques	
603(C) Product Design		604(C) Renewable Energy Technology	

Swayam on line course (any one of one sem duration)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

VI Semester

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Information Technology **(w.e.f. Jan, 2020)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	IT601	DC	Computer Graphics & Multimedia	70	20	10	30	20	150	2	1	2	4
2.	IT602	DC	Wireless and Mobile Computing	70	20	10	30	20	150	3	1	2	4
3.	IT603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	IT604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	IT605	D Lab	Programming in Python	-	-	-	30	20	50	-	-	6	3
6.	IT606	O/E Lab	Android Programming	-	-	-	30	20	50	-	-	6	3
7.	IT607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	IT608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	50	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Compiler Design	604(A) Intellectual Property Rights
603 (B) Data Mining	604(B) Software Engineering
603 (C) Embedded Systems	604 (C) Wireless Sensor Networks

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.) Electronics & Communication Engg. (w.e.f. Jan, 2020)

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	EC601	DC	Digital Signal Processing	70	20	10	30	20	150	2	1	2	4
2.	EC602	DC	Antenna & Wave propagation	70	20	10	30	20	150	2	1	2	4
3.	EC603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	EC604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	EC605	D Lab	Data Communication Lab	-	-	-	30	20	50	-	-	6	3
6.	EC606	O/E Lab	Microcontroller & Embedded system	-	-	-	30	20	50	-	-	6	3
7.	EC607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	EC608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Data Communication	604(A) Microcontroller & Embedded system
603 (B) CMOS Design	604(B) Bio-medical Electronics
603(C) Satellite Communication	604(C) Power Electronics

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Chemical Engineering **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CM601	DC	Mass Transfer -II	70	20	10	30	20	150	2	1	2	4
2.	CM 602	DC	Chemical Reaction Engineering	70	20	10	30	20	150	2	1	2	4
3.	CM 603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CM 604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CM 605	D Lab	Chemical Process Plant Simulation Lab-II	-	-	-	30	20	50	-	-	6	3
6.	CM 606	O/E Lab	Chemical Process Control Lab	-	-	-	30	20	50	-	-	6	3
7.	CM 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CM 608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives		Open Electives	
603 (A) Process Equipment Design-I	-	604(A) Chemical Process Control	-
603 (B) Polymer Technology	-	604(B) Process Optimization Techniques	-
603(C) Nano Technology	-	604(C) Fertilizer Technology	-

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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2023-2024

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Civil Engineering **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CE601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	150	2	1	2	4
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	150	2	1	2	4
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CE 604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	50	-	-	6	3
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	50	-	-	6	3
7.	CE 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CE 608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Water resources engineering	604(A) Fluid Mechanics II
603 (B) Precast and modular construction	604(B) Intellectual Property rights(IPR)
603(C) Advance pavement design	604(C) Environmental Impact Assessment
603(D) Cost effective and Eco-friendly structures	604(D) Operation Research

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula

VII Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security Including Block Chain Technology]

(w.e.f. July, 2023)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Term work Lab Work & Sessional					
1.	IS701	DC-1	Cloud Computing	70	20	10	30	20	150	2	1	2	4
2.	IS702	DE	Departmental Elective	70	20	10			100	3	1	0	4
3.	IS703	OE	Open Elective	70	20	10			100	3	-	-	3
4.	IS704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	IS705	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	IS706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	IS607	IN	Evaluation of Internship-III					100	100	-	-	6	3
8.	Additional Credits#	#Additional credits can be earned through successful completion of credit based MOOCs Courses available on SWAYAM platform (MHRD) at respective UG level.											
		Total		210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
IS702(A) Machine Learning	IS703(A) Cyber Physical System
IS702(B) Compiler Design	IS703(B) Security and Privacy in IOT
IS702(C) Malware Analysis and Reverse Engineering	IS703(C) Industrial IoT
IS702 (D) Ethical Hacking & Penetration Testing	IS703 (D) Data Engineering



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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VII Semester

Bachelor of Technology (B.Tech.) [CSE - Data Science/Data Science] **(w.e.f, July, 2023)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CD701	BC-1	Data Engineering	70	20	10	30	20	150	2	1	2	4
2.	CD702	DE	Departmental Elective	70	20	10			150	3	1	-	4
3.	CD703	OE	Open Elective	70	20	10			190	3	-	-	3
4.	CD704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	CD705	O/E Lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	CD706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CD607	IN	Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits#	#Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			Total	210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
CD 702(A) Data Analytics & Visualization	CD 703(A) Cryptography & Information Security
CD 702 (B) Wireless and Mobile Computing	CD 703(B) Intelligent Systems for Robotics
CD 702 (C) Cloud Computing	CD 703(C) Computer Vision
CD 702 (D) Advanced statistics for DataScience	CD 703(D) Data Mining and Warehousing

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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

VII Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning] **(w.e.f. July, 2023)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	AL701	DC-1	Computer Vision	70	20	10	30	20	150	2	1	2	4
2.	AL702	DE	Departmental Elective	70	20	10			100	3	1	0	4
3.	AL703	OE	Open Elective	70	20	10			100	3	-	-	3
4.	AL704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	AL705	O/E Lab	Skill Development Lab	-	-	-	30	20	50	-	-	6	3
6.	AL706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	AL607	IN	Evaluation of Internship-III					100	100	-	-	6	3
8.	Additional Credits#	# Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
AL702(A) AI in Gaming	AL703(A) Compiler Design
AL702 (B) Advanced Machine Learning	AL703(B) Augmented and Virtual Reality
AL702 (C) Predictive Analytics	AL703(C) Agile Software Development
AL702 (D) Machine Learning for Data Science	AL703(D) Internet and Web Technology



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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Mechanical Engineering] (w.e.f. July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME 701	DC	Heat and Mass Transfer	70	20	10	30	20	150	2	1	2	4
2.	ME702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	ME 704	D Lab	CAD/CAM/CIM	-	-	-	30	20	50	-	-	6	3
5.	ME 705	O/E lab	MATLAB and R Programming	-	-	-	30	20	50	-	-	6	3
6.	ME706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	ME 607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702(A) Advance Machining Processes	703(A) Operation Research and Supply Chain
702 (B) Internet of Things (IOT)	703(B) Artificial Intelligence Techniques
702 (C) Power Plant Engineering	703(C) Systems Engineering
702 (D) Advance Machine Design	703 (D) Reliability Engineering

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Information Technology] [w.e.f. July, 2020]

VII Semester


S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT-701	DC	Soft Computing	70	20	10	30	20	150	2	1	2	4
2.	IT-702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	IT-703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	IT-704	D Lab	Cloud Computing Lab	-	-	-	30	20	50	-	-	6	3
5.	IT-705	O/E Lab	IoT Lab	-	-	-	30	20	50	-	-	6	3
6.	IT-706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	IT-607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										UG	
9.		Total		210	60	30	190	210	700	8	2	28	24

Departmental Electives		Open Electives	
702(A) Data Science		703(A) Cyber Laws and Forensics	
702 (B) Cloud Computing		703(B) Internet of Things	
702 (C) Simulation and Modeling		703(C) Social Networks	
702 (D) Augmented and Virtual Reality		703 (D) Digital Image Processing	

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit


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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.) [Electronics & Communication Engg.] **[w.e.f. July, 2020]**

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	EC701	DC	VLSI Design	70	20	10	30	20	150	2	1	2	4
2.	EC702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	EC703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	EC704	D Lab	Microwave Lab	-	-	-	30	20	50	-	-	6	3
5.	EC705	O/E lab	I.O.T. Lab	-	-	-	30	20	50	-	-	6	3
6.	EC706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	EC607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives		Open Electives	
702(A) Microwave Engg.		703(A) Cellular Mobile Communication	
702 (B) Information Theory & Coding		703(B) Internet of Things	
702 (C) Nano Electronics		703(C) Probability Theory & Stochastic Processor	

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Computer Science and Engineering/ **(w.e.f. July, 2020)**

Computer Engineering/Computer Science & Technology]

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS 701	DC	Software Architectures	70	20	10	30	20	150	2	1	2	4
2.	CS 702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CS 703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	CS 704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	CS 705	O/E lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	CS 706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CS 607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										UG	
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives		Open Electives	
702(A) Computational Intelligence		703(A) Cryptography & Information Security	
702 (B) Deep & Reinforcement Learning		703(B) Data Mining and Warehousing	
702 (C) Wireless & Mobile Computing		703(C) Agile Software Development	
702 (D) Big Data		703 (D) Disaster Management	

* Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Chemical Engineering

VII Semester

(w.e.f. July, 2020)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			I	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CM -701	DC	Process Equipment Design-II	70	20	10	30	20	150	2	1	2	4
2.	CM -702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CM -703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	CM -704	D Lab	Energy Lab	-	-	-	30	20	50	-	-	6	3
5.	CM -705	O/E lab	Environmental Engineering Lab	-	-	-	30	20	50	-	-	6	3
6.	CM -706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CM -607		Evaluation of Internship -II	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702(A) Transport Phenomena	703(A) Environmental Engineering
702 (B) Bio-process Technology	703(B) Process Intensification
702 (C) Petroleum Refining Engineering	703(C) Non-conventional energy Sources

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Civil Engineering] **(w.e.f. July, 2020)**

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical			L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional						
1.	CE-701	DC	Geotechnical Engg	70	20	10	30	20	150	2	1	2	4	
2.	CE-702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4	
3.	CE-703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3	
4.	CE-704	D Lab	Prestressed Concrete Structures Lab	-	-	-	30	20	50	-	-	6	3	
5.	CE-705	O/E lab	IoT Lab	-	-	-	30	20	50	-	-	6	3	
6.	CE-706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4	
7.	CE-607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3	
8.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.											UG
Total				210	60	30	190	210	700	8	2	28	24	

Departmental Electives	Open Electives
702 (A) Prestressed Concrete Structures	703 (A) Internet of Things
702 (B) Environmental Engg-I	703 (B) Project Management
702 (C) Structural Dynamics	703 (C) Integrated Waste Management
702 (D) Structural Design and Drawing (RCC-II)	703 (D) Building Services

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

VIII Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering - Internet of Things and Cyber Security Including Block Chain Technology] (w.e.f. Jan, 2024)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			€	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ISS01	DC	Artificial Intelligence	70	20	10	30	20	150	2	1	2	4
2.	ISS02	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ISS03	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	ISS04	D/O/E Lab	Departmental/Open Elective lab	-	-	-	30	20	50	-	-	6	3
5.	ISS05	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits#	#Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			Total	210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) IoT Applications	803(A) Game Theory with Engineering applications
802(B) Emerging areas in Blockchain	803(B) Image Processing and Computer Vision
802(C) BigData	803(C) Wireless & Mobile Computing
802(D) IT Project Management	803(D) Managing Innovation and Entrepreneurship

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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VIII Semester

Bachelor of Technology (B.Tech.) [CSE - Data Science/Data Science] **(w.e.f. Jan, 2024)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CD801	DC-1	Compiler Design	70	20	10	30	20	150	2	1	2	4
2.	CD802	DE	Departmental Elective	70	20	10	-	-	150	3	1	-	4
3.	CD803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CD804	D/O/E Lab	Skill Development lab	-	-	-	30	20	50	-	-	6	3
5.	CD805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6	Additional Credits#	#Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
CD 802 (A) Reinforcement Learning	CD 803 (A) Block Chain Technologies
CD 802 (B) Project Management	CD 803 (B) Time-Series Analysis
CD 802 (C) Computational Statistics	CD 803 (C) Internet of Things
CD 802 (D) Machine Learning for Data Science	CD 803 (D) Quantum Computing

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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
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Scheme of Examination as per AICTE Flexible Curricula

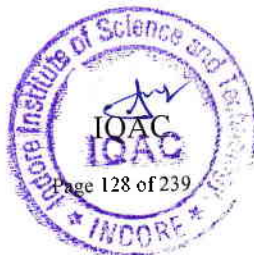
VIII Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial
Intelligence and Machine Learning] **(w.e.f. Jan, 2024)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	AL801	DC-1	Business Intelligence	70	20	10	30	20	150	2	1	2	4
2.	AL802	DE	Departmental Elective	70	20	10			100	3	1		4
3.	AL803	OE	Open Elective	70	20	10			100	3	-	-	3
4.	AL804	D/O/ELab	D/O elective lab	-	-	-	30	20	50	-	-	6	3
5.	AL805	O/E Lab	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits#	#Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
AL802(A) Block Chain Technologies	AL 803 (A) Introduction to IoT
AL802 (B) High Performance computing	AL 803 (B) Bio informatics
AL802 (C) Big Data Analytics	AL 803 (C) Managing Innovation and Entrepreneurship
AL802(D) Quantum Computing	AL 804 (D) Human Computer Interaction

Examination

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2023-2024

Rajiv Gandhi Prondyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VIII Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering] **[w.e.f. Jan, 2021]**

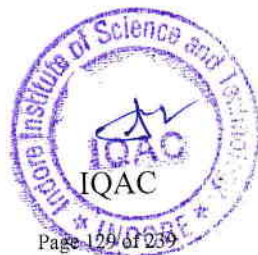
S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME 801	DC	Refrigeration & Air Conditioning	70	20	10	30	20	150	2	1	2	4
2.	ME 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	ME 804	D/O/E Lab	Simulation and Modeling	-	-	-	30	20	50	-	-	6	3
5.	ME 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	130	70	500	8	2	16	18


Departmental Electives	Open Electives
802(A) Automobile Engineering	803(A) Data analytics
802 (B) Tribology & Maintenance Engineering	803(B) Energy Conservation, Management & Audit
802 (C) Machine Tool Design	803(C) Entrepreneurship and Management Concepts
802 (D) Production Planning and Control	803 (D) Management Information System

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit


Examination

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Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
VIII Semester Bachelor of Technology (B.Tech.) Information Technology **(w.e.f. Jan, 2021)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT-801	DC	Information Security	70	20	10	30	20	150	2	1	2	4
2.	IT-802	DE	Departmental Elective IV	70	20	10	-	-	100	3	1	-	4
3.	IT-803	OE	Open Elective IV	70	20	10	-	-	100	3	-	-	3
4.	IT-804	D/O/E Lab	Machine Learning Lab.	-	-	-	30	20	50	-	-	6	3
5.	IT-805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	* Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
7.			Total	210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Machine Learning	803(A) Blockchain Technology
802 (B) Natural Language Processing	803(B) Human Computer Interaction
802 (C) Robotics	803(C) 3D Printing and Design
802 (D) Quantum Computing	803 (D) Parallel Computing

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

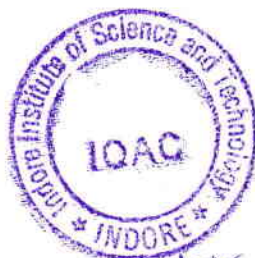
Bachelor of Technology (B.Tech.)|Electronics & Communication Engg. (w.e.f. Jan, 2021)

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem						Term work Lab Work & Sessional
1.	EC 801	DC	Optical Fibre Communication	70	20	10	30	20	150	2	1	2	4
2.	EC 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	EC 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	EC804	D/O/E Lab	Advanced Communication Engg. Lab	-	-	-	30	20	50	-	-	6	3
5.	EC 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) AI & Signal Processing	803(A) Wireless Network
802 (B) Wireless Communication	803(B) Digital Image Processing
802 (C) 5G Technology	803(C) Speech Processing

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f. Jan, 2021)
Computer Engineering/Computer Science & Technology

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS 801	DC	Internet of Things	70	20	10	30	20	150	2	1	2	4
2.	CS 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CS 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CS 804	D/OE Lab	D/O elective lab	-	-	-	30	20	50	-	-	6	3
5.	CS 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Block Chain Technologies	803(A) Image Processing and Computer Vision*
802 (B) Cloud Computing	803(B) Game Theory with Engineering applications*
802 (C) High Performance computing	803(C) Internet of Things*
802 (D) Object Oriented Software Engineering	803 (D) Managing Innovation and Entrepreneurship*

† These Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.
 * can be offered to students of all branches except CSE, provided they have not taken any similar course previously and have sufficient knowledge of pre-requisite courses, if any.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Chemical Engineering **(w.e.f. Jan, 2023)**

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CM-801	DC	Chemical Process Modeling & Simulation	70	20	10	30	20	150	2	1	2	4
2.	CM-802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CM-803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CM-804	D/O/E Lab	Petrochemical Technology Lab	-	-	-	30	20	50	-	-	6	3
5.	CM-805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level. UG											
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives		Open Electives	
802(A) Process Piping Design		803(A) Process Plant Economics & Management	
802 (B) Process safety & Hazards Management		803(B) Petrochemical Technology	
802 (C) Fertilizer Technology		803(C) IPR (Intellectual Property Right)	

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Civil Engineering] [w.e.f. Jan, 2021]

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CE-801	DC	Design of Steel Structures	70	20	10	30	20	150	2	1	2	4
2.	CE-802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CE-803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CE-804	D/O/E Lab	Earthquake Resistant Structures Lab	-	-	-	30	20	50	-	-	6	3
5.	CE-805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits ¹	¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Engineering Hydrology	803(A) Artificial Intelligence
802 (B) Foundation Engineering	803(B) Data Analytics
802 (C) Bridge Engineering	803(C) Retrofitting and Rehabilitation of Structures
802 (D) Earthquake Resistant Design of Structures	803 (D) Integrated Water Management

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit



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2023-2024

E. Mention in Scheme provided by Affiliating University (PG)

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
First Semester- Master of Engineering
(Digital Communication, Communication Tech./Control, Communication Systems)

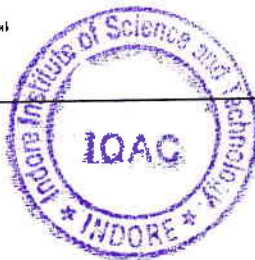
S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MEDC-101	Advanced Mathematics	3	1	-	4	70	20	10	-	-	100
2.	MEDC-102	Micro controller system Design	3	1	-	4	70	20	10	-	-	100
3.	MEDC-103	DSP Application	3	1	-	4	70	20	10	-	-	100
4.	MEDC-104	VLSI Design	3	1	-	4	70	20	10	-	-	100
5.	MEDC-105	Data Communication and Computer Networks	3	1	-	4	70	20	10	-	-	100
6.	MEDC-106	Lab-I (102,103)	-	-	6	6	-	-	-	90	60	150
7.	MEDC-107	Lab-II (104,105)	-	-	6	6	-	-	-	90	60	150
Total			15	5	12	32	350	100	50	180	120	800

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2019

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
Second Semester- Master of Engineering
(Digital Communication, Communication Tech./Control, Communication Systems)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MEDC-201	System Programming	3	1	-	4	70	20	10	-	-	100
2.	MEDC-202	Modelling & Simulation of Computer	3	1	-	4	70	20	10	-	-	100
3.	MEDC-203	Network Design Technology	3	1	-	4	70	20	10	-	-	100
4.	MEDC-204	Optical Network	3	1	-	4	70	20	10	-	-	100
5.	MEDC-205	Mobile & Satellite Communication	3	1	-	4	70	20	10	-	-	100
6.	MEDC-206	Lab-III (201)	-	-	6	6	-	-	-	90	60	150
7.	MEDC-207	Lab-IV (202)	-	-	6	6	-	-	-	90	60	150
Total			15	5	12	32	350	100	50	180	120	800

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2019



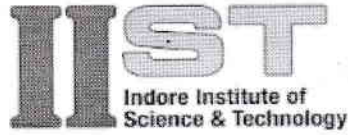
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Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
 Third Semester- Master of Engineering
 (Digital Communication, Communication Tech./Control, Communication Systems)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical /Viva	Practical Record Assignment/Quiz /Presentation	
1.	MEDC-301	Elective I	3	1	-	4	70	20	10	-	-	100
2.	MEDC-302	Elective II	3	1	-	4	70	20	10	-	-	100
3.	MEDC-303	Seminar	-	-	4	4	-	-	-	-	100	100
4.	MEDC-304	Dissertation Part I	-	-	8	8	-	-	-	120	80	200
Total			6	2	12	20	140	40	20	120	180	500

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2010

Elective-I		Elective-II	
MEDC-301(A)	Information Theory & Coding	MEDC-302(A)	Advanced Digital Communication
		MEDC-302(B)	Optical Instrumentation & Measurement

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
 Fourth Semester- M.E./M.Tech.
 (Digital Communication, Communication Tech./Control, Communication Systems)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical/viva	Practical Record/Assignment/Quiz /Presentation	
1.	MEDC-401	Dissertation Part- II	-	-	20	20	-	-	-	300	200	500
Total			-	-	20	20	-	-	-	300	200	500

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2010



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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)
Scheme of Examination *
First Semester- Master of Technology/Master of Engineering
Machine Design and Robotics/Machine Design

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/Quiz /Presentation	
1.	MMMD-101	Advance Mathematics	3	1	-	4	70	20	10	-	-	100
2.	MMMD-102	Theory of Elasticity & Plasticity	3	1	-	4	70	20	10	-	-	100
3.	MMMD-103	Material Science	3	1	-	4	70	20	10	-	-	100
4.	MMMD-104	Theory of Vibration	3	1	-	4	70	20	10	-	-	100
5.	MMMD-105	Computer Aided Design & Drafting	3	1	-	4	70	20	10	-	-	100
6.	MMMD-106	Lab-I	-	-	6	6	-	-	-	90	60	150
7.	MMMD-107	Lab-II	-	-	5	6	-	-	-	90	60	150
		Total	15	5	12	32	350	100	50	180	120	800

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2010

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)
Scheme of Examination
Second Semester- Master of Technology/Master of Engineering
Machine Design and Robotics/Machine Design

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/Quiz /Presentation	
1.	MMMD-201	Adv. Machine Design	3	1	-	4	70	20	10	-	-	100
2.	MMMD-202	Finite Elements Method	3	1	-	4	70	20	10	-	-	100
3.	MMMD-203	Robotics	3	1	-	4	70	20	10	-	-	100
4.	MMMD-204	Industrial Tribology	3	1	-	4	70	20	10	-	-	100
5.	MMMD/ RMPD-205	Vibration and Noise Control	3	1	-	4	70	20	10	-	-	100
6.	MMMD-206	Lab-I (204)	-	-	6	6	-	-	-	90	60	150
7.	MMMD-207	Lab-II (205)	-	-	6	6	-	-	-	90	60	150
		Total	15	5	12	32	350	100	50	180	120	800

L: Lecture - T: Tutorial - P: Practical w.e.f. July-2010



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2023-2024

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination -
First Semester- M.E./M.Tech. (Computer Science and Engineering)/ Computer Sc.

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/ Viva	Practical Record/ assignment/Quiz /Presentation	
1.	MCSE 101	Advanced Computational Mathematics	3	1	-	4	70	20	10	-	-	100
2.	MCSE 102	Advanced Data Structures and Algorithms	3	1	-	4	70	20	10	-	-	100
3.	MCSE 103	Advanced Computer Architecture	3	1	-	4	70	20	10	-	-	100
4.	MCSE 104	Object Oriented Technology	3	1	-	4	70	20	10	-	-	100
5.	MCSE 105	Advanced Computer Networking	3	1	-	4	70	20	10	-	-	100
6.	MCSE 106	Lab-I MCSE-103 MCSE-103	-	-	6	6	-	-	-	90	60	150
7.	MCSE 107	Lab-II MCSE-102 MCSE-102	-	-	6	6	-	-	-	90	60	150
Total			15	5	12	32	350	100	50	180	120	800

L: Lecture • T: Tutorial • P: Practical w.e.f. 07/9-2019

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
Second Semester- Master of Technology (Computer Science and Engineering)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/ Viva	Practical Record/ assignment/Quiz /Presentation	
1.	MCSE 201	Web Technology and E-Commerce	3	1	-	4	70	20	10	-	-	100
2.	MCSE 202	Information theory, Coding and Cryptography	3	1	-	4	70	20	10	-	-	100
3.	MCSE 203	Advance Concept in Data Bases	3	1	-	4	70	20	10	-	-	100
4.	MCSE 204	System Programming	3	1	-	4	70	20	10	-	-	100
5.	MCSE 205	Soft Computing	3	1	-	4	70	20	10	-	-	100
6.	MCSE 206	Lab-III (MCSE-201,205)	-	-	6	6	-	-	-	90	60	150
7.	MCSE 207	Lab-IV MCSE 203, MCSE 204)	-	-	6	6	-	-	-	90	60	150
Total			15	5	12	32	350	100	50	180	120	800

L: Lecture • T: Tutorial • P: Practical w.e.f. 07/9-2019



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2023-2024

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
Third Semester- M.E./M.Tech. (Computer Sc. & Engg./Computer Sc.)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MCSE 301	Elective I	3	1	-	4	70	20	10	-	-	100
2.	MCSE 302	Elective II	3	1	-	4	70	20	10	-	-	100
3.	MCSE 303	Seminar	-	-	4	4	-	-	-	-	100	100
4.	MCSE 304	Dissertation Part-I (Literature Review/Problem Formulation/ Synopsis)	-	-	8	8	-	-	-	120	80	200
Total			6	2	12	20	140	40	20	120	180	500

L: Lecture - T: Tutorial - P: Practical www.iist.ac.in/ July-2020

Elective-I (MCSE 301)
(A) Data Warehousing & Mining

Elective-II (MCSE 302)
(C) Network Security
(D) Simulation and Modeling

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal(M.P.)
Scheme of Examination
Fourth Semester- M.E./M.Tech. (Computer Sc. & Engg./Computer Sc.)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MCSE 401	Dissertation Part-II	-	-	20	20	-	-	-	300	200	500
Total			-	-	20	20	-	-	-	300	200	500

L: Lecture - T: Tutorial - P: Practical www.iist.ac.in/ July-2020



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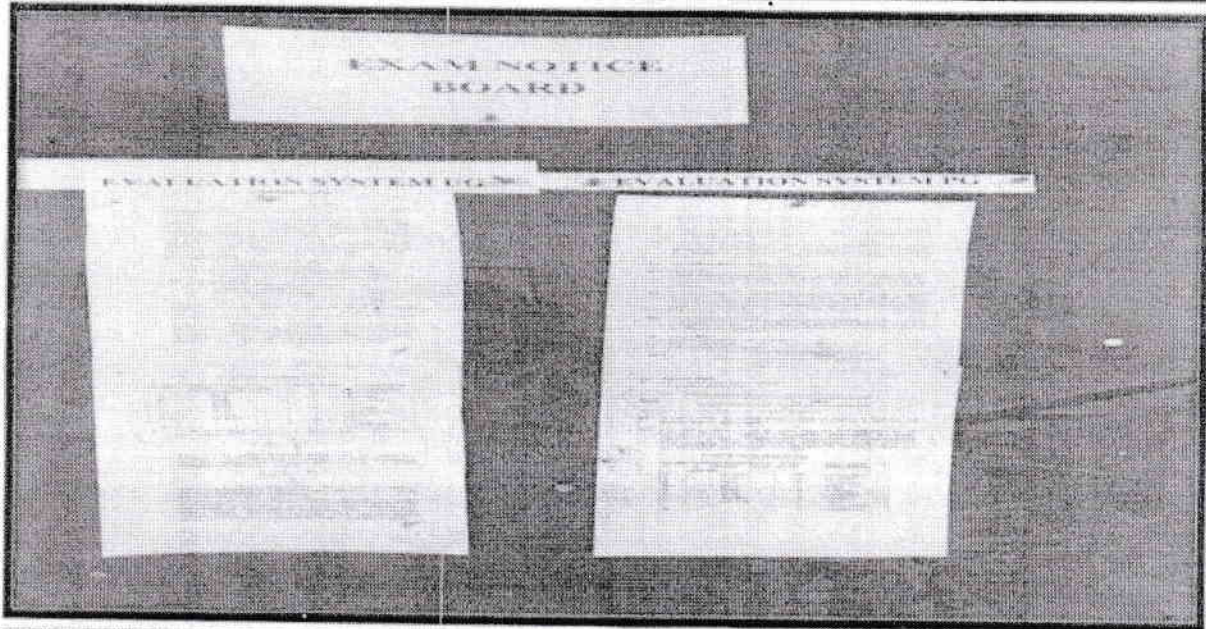
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2023-2024

F. Display Evaluation System on Notice Board



G. Mention in MST Notices

S.No.	Session	Particular
1	July – Dec 2023	MST-I Notice for Faculty II Year, III Year & IV Year
2		MST-I Notice for Students II Year, III Year & IV Year
3		MST-I Time Table III Semester
4		MST-I Time Table VII Semester
5		MST-I Time Table V Semester
6		MST-II Notice for Faculty, II Year & III Year
7		MST-II Notice for Student, II Year & III Year
8		MST-II Time Table III Semester
9		MST-II Time Table V Semester
10		MST-II Notice for Faculty, I Year
11		MST-II Notice for Student, I Year
12		MST-II Time Table I Semester, Set-A
13		MST-II Time Table I Semester, Set-B
14	Jan – June 2024	MST-I Notice for Faculty, VIII Sem
15		MST-I Notice for Students, VIII Sem
16		MST-I Time Table VIII Semester
17		MST-I Notice for Faculty, VI Sem
18		MST-I Notice for Students, VI Sem

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2023-2024

19	MST-I Time Table VI Semester
20	MST-I Notice for Faculty, IV & II Sem
21	MST-I Notice for Students, IV & II Sem
22	MST-I Time Table, IV Sem
23	MST-I Time Table, II Sem, Set-A
24	MST-I Time Table, II Sem, Set-B
25	MST-II Notice for Faculty, VIII Sem
26	MST-II Notice for Students, VIII Sem
27	MST-II Time Table VIII Semester
28	MST-II Notice for Faculty, I Year & II Year
29	MST-II Notice for Student, I Year & II Year
30	MST-II Time Table II Semester Set A
31	MST-II Time Table II Semester Set B
32	MST-II Time Table IV Semester


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2023-2024





**Indore Institute of
Science & Technology**

IIST/Sept.-23/01

Academic Year 2023-24 (Odd Sem.)

Date: 11.09.2023

NOTICE

Centralized Mid – Semester Tests (MST-I)

for 2nd year (03rd Sem.) students is scheduled on 21st, 22nd and 23rd Sept.-2023.

04th Year (07th Sem.) students is scheduled on 22nd and 23rd Sept.-2023 and


03rd Year (05th Sem.) students is scheduled on 26th and 27th Sept.-2023

Dear all,

This is to inform all of you that the Centralized MST-I for 2nd year 3rd sem. students is scheduled on 21st (Thursday), 22nd (Friday) & 23rd (Saturday) Sept. 2023, 4th year 07th sem. students is scheduled on 22nd (Friday) & 23rd (Saturday) Sept. 2023 and 03rd year 05th sem. students is scheduled on 26th (Tuesday) & 27th (Wednesday) Sept. 2023. In this regard it is to further inform you that:

1. Please submit one question paper per subject in PDF format on or before 15th (Friday) Sept., 2023. *(Question Paper should be prepared in Times New Roman with 12 font size in the given format. The compiled & verified OPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).*
2. The evaluation of MST-I answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-I marks by the respective department has to be done on or before 03rd (Tuesday) Oct., 2023 (3rd and 7th Sem.), 06th (Friday) Oct., 2023 (5th Sem.) and submit the copy to undersign.


Please take a note of it and act accordingly.

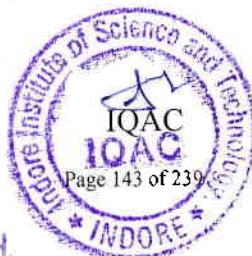

 Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. Dean/HOD
2. All faculty and staff
3. Exam Dept. 4. Registrar office, 5. IQAC, 6. DG Office, 07. Office Record

Office: Institutional, Para-Administrative Record, Main, Indore (M.P.) - 493023
 (2) 493 402 (3) 493 402 (4) 493 402 (5) 493 402 (6) 493 402 (7) 493 402 (8) 493 402 (9) 493 402 (10) 493 402


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2023-2024





**Indore Institute of
Science & Technology**

IIST/Sept-23/02
Academic Year 2023-24 (Old Sem.)
Date: 11.09.2023

NOTICE

Mid - Semester Tests (MST-I) of 2nd year (03rd Sem.), 03rd Year (05th Sem.) and 04th Year (07th Sem.)


Dear All,
This to inform you that the centralized MST-I for the session July to Dec., 2023 scheduled as mention below:

Dates for MST-I (Theory)

MST-I	Year/Sem.	Date	Year/Sem.	Date	Year/Sem.	Date
Theory	2 nd Year (3 rd Sem.)	21 st (Thursday), 22 nd (Friday) & 23 rd (Saturday) Sept. 2023	04 th Year (07 th Sem.)	22 nd (Friday) & 23 rd (Saturday) Sept. 2023	03 rd Year (05 th Sem.)	26 th (Tuesday) & 27 th (Wednesday) Sept. 2023

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-I exam will be from the first two and half units of the respective subjects and MST-II will cover remaining units.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz – 1 after MST-I
05 Marks for Quiz – 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. **Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.**

Wishing you best wishes and good luck for the upcoming MST


 Dr. Keshav Patidar
Principal, IIST, Indore

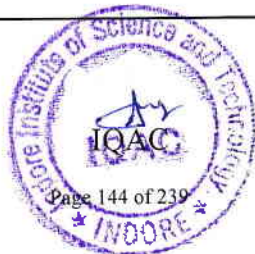
C.C.to:-
1. All the students, 2. Dean/HOD, 3. All faculty & Staff, 4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record


Camp: IIST(Indore), Main: Pithampur Road, Main, Indore (M.P.) - 453333

Phone: 0731-2521111, 2521112, 2521113, 2521114, 2521115, 2521116, 2521117, 2521118, 2521119, 2521120, 2521121, 2521122, 2521123, 2521124, 2521125, 2521126, 2521127, 2521128, 2521129, 2521130, 2521131, 2521132, 2521133, 2521134, 2521135, 2521136, 2521137, 2521138, 2521139, 2521140, 2521141, 2521142, 2521143, 2521144, 2521145, 2521146, 2521147, 2521148, 2521149, 2521150, 2521151, 2521152, 2521153, 2521154, 2521155, 2521156, 2521157, 2521158, 2521159, 2521160, 2521161, 2521162, 2521163, 2521164, 2521165, 2521166, 2521167, 2521168, 2521169, 2521170, 2521171, 2521172, 2521173, 2521174, 2521175, 2521176, 2521177, 2521178, 2521179, 2521180, 2521181, 2521182, 2521183, 2521184, 2521185, 2521186, 2521187, 2521188, 2521189, 2521190, 2521191, 2521192, 2521193, 2521194, 2521195, 2521196, 2521197, 2521198, 2521199, 2521200


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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
TIME TABLE
2023-24 (Page 2023)

EXAMINATIONS (All Branches) II Semester

Date	Time	21/02/24 (THURSDAY)		22/02/24 (FRIDAY)		23/02/24 (SATURDAY)	
		10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM	10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM	10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM
CS	Applied	CS-201 PCL-1	CS-101 DIS-101	CS-301 DB	CS-204 DB	CS-304 DB	CS-305 DB
IT	Applied	IT-201 PCL-1	IT-101 DIS-101	IT-301 DB	IT-204 DB	IT-304 DB	IT-305 DB
AIMA	Applied	AIMA-201 Tech. Comm.	AIMA-101 Tech. & Soc.	AIMA-301 DB	AIMA-204 DB	AIMA-304 DB	AIMA-305 DB
IoT	Applied	IoT-201 Tech. Comm.	IoT-101 Dis. Tech.	IoT-301 DB	IoT-204 DB	IoT-304 DB	IoT-305 DB
EC	Applied	EC-201 MCH	EC-101 EIT	EC-301 DB	EC-204 DB	EC-304 DB	EC-305 DB
ME	Applied	ME-201 MCH	ME-101 EIT	ME-301 DB	ME-204 DB	ME-304 DB	ME-305 DB
ET	Applied	ET-201 MCH	ET-101 EIT	ET-301 DB	ET-204 DB	ET-304 DB	ET-305 DB

Note: Candidates should note the date & sequence of subjects very carefully.

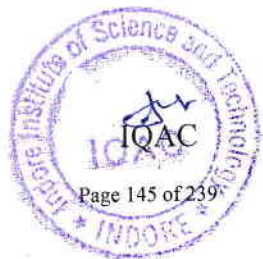
INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
TIME TABLE
2023-24 (Page 2024)

EXAMINATIONS (All Branches) III Semester

Date	Time	24/02/24 (SUNDAY)		25/02/24 (MONDAY)		26/02/24 (TUESDAY)	
		10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM	10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM	10:30 AM - 12:30 Noon	1:30 PM - 3:30 PM
CS	Computer Architecture	CS-202 PCL-2	CS-102 DB	CS-302 DB	CS-205 DB	CS-305 DB	CS-306 DB
IT	Computer Components	IT-202 PCL-2	IT-102 DB	IT-302 DB	IT-205 DB	IT-305 DB	IT-306 DB
AIMA	AIMA-202 PCL-2	AIMA-102 DB	AIMA-302 DB	AIMA-205 DB	AIMA-305 DB	AIMA-306 DB	AIMA-307 DB
IoT	IoT-202 PCL-2	IoT-102 DB	IoT-302 DB	IoT-205 DB	IoT-305 DB	IoT-306 DB	IoT-307 DB
EC	EC-202 PCL-2	EC-102 DB	EC-302 DB	EC-205 DB	EC-305 DB	EC-306 DB	EC-307 DB
ME	ME-202 PCL-2	ME-102 DB	ME-302 DB	ME-205 DB	ME-305 DB	ME-306 DB	ME-307 DB
ET	ET-202 PCL-2	ET-102 DB	ET-302 DB	ET-205 DB	ET-305 DB	ET-306 DB	ET-307 DB

Note: Candidates should note the date & sequence of subjects very carefully.

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
TIME TABLE
MST-1 (Sept-2023)


EXAM: B.Tech. (All Branches) V Semester


Branch/Time	25/09/2023 (MONDAY)		26/09/2023 (TUESDAY)		27/09/2023 (WEDNESDAY)	
	11:30 PM-03:00 PM	10:30 AM-12:30 Noon	11:30 PM-02:00 PM	10:30 AM-12:30 Noon	11:30 AM-02:00 Noon	12:30 PM-03:30 PM
CS	Algebra	CS-501 TOC	CS-502 DBMS	CS-503 (C) Cyber Security	CS-504 (A) Internet and Web Technology	
IT	Algebra	IT-501 OS	IT-502 CV	IT-503 TOC	IT-504 AI & ML	
ITML	Algebra	IT-501 OS	IT-502 DBMS	IT-503 (B) Deep Learning	IT-504 (A) AI in Health Care	
CM	Algebra	CM-501 MIA	CM-502 IT	CM-503 CMC	CM-504 OPF	
EC	Algebra	EC-501 MIA	EC-502 DC	EC-503 CMI	EC-504 CMT	
ME	Algebra	ME-501 RF	ME-502 MV	ME-503 DOM	ME-504 J&E	
CE	Algebra	CE-501 FM-I	CE-502 TF-I	CE-503 QSC	CE-504 LST	

Note - Candidates should note the dates & sequence of subjects very carefully.


 Dr. Anshu Prasad
 Principal




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2023-2024



IIST/Oct.-23/03

Academic Year 2023-24 (Odd Sem.)

Date: 19.10.2023

NOTICE

Mid - Semester Tests (MST-II) for 2nd Year (3rd Sem.) and 3rd Year (5th Sem.) students are scheduled on 30th, 31st Oct. and 1st Nov. -2023

Dear all,

This is to inform all of you that the Centralized MST-II for 2nd and 3rd year students are scheduled on 30th (Monday), 31st (Tuesday) Oct. & 1st (Wednesday) Nov., 2023. In this regard it is to further inform you that:

1. Please submit one question paper per subject in PDF format on or before 21st (Saturday) Oct., 2023. *(Question Paper should be prepared in Times New Roman with 12 font size in the given format. The compiled & verified QPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).*
2. The evaluation of MST-II answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-II marks by the respective department has to be done on 09th (Thursday) Nov., 2023 and submit the copy to undersign.

Please take a note of it and act accordingly.

Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. Dean/HOD
2. All faculty and staff
3. Exam Dept.
4. Registrar office
5. IQAC
6. DG Office
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IIST/Oct.-23/04

Academic Year 2023-24 (Odd Sem.)

Date: 19.10.2023

NOTICE

Mid - Semester Tests (MST-II) of 2nd and 3rd Year

Dear All,

This to inform you that the centralized MST-II for the session July to Dec., 2023 scheduled as mention below:

Dates for MST-II (Theory)

MST-II	Year/Sem.	Date
Theory	2 nd Year and 3 rd Year	30 th , 31 st Oct. and 1 st Nov. -2023

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-II exam will be from remaining units covered after MST-I.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz - 1 after MST-I
05 Marks for Quiz - 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.

Wishing you best wishes and good luck for the upcoming MST'

Dr. Keshav Patidar
Principal
IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

Green Helpline Club

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R.G.P.V. EXAMINATION

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
TIME TABLE
MST-II Oct-2023

EXAM: B.Tech. (All Branches) III Semester

Date	30/10/23 (MONDAY)		31/10/23 (TUESDAY)		01/11/2023 (WEDNESDAY)	
	10:00 AM-12:00 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon	1:30 PM-3:30 PM
CS	Aptitude	ES-301 EES	CS-302 DIS.STRU.	CS-303 DS	CS-304 Dig. Sys.	CS-305 OOPM
IT	Aptitude	ES-301 EES	IT-302 DIS.STRU.	IT-303 DS	IT-304 OOPM	IT-305 DCS
AIML	Aptitude	AL-301 Tech. Comm.	AL-302 Prob & Stat	AL-303 DS	AL-304 AI	AL-305 OOPM
IOT	Aptitude	IS-301 Tech. Comm.	IS-302 DIS.STRU.	IS-303 DS	IS-304 Intro to Inf. Sec.	IS-305 OOPM
EC	Aptitude	BT-301 M-III	EC-302 EMI	EC-303 DSD	EC-304 ED	EC-305 NA
ME	Aptitude	BT-301 M-III	ME-302 TD	ME-303 MT	ME-304 SOM	ME-305 MP
CE	Aptitude	BT 301 M-III	CE-302 CM	CE-303 Surveying	CE-304 BPA	CE-305 SOM

Note- Candidate should note the dates & sequence of subjects very carefully.

Dr. Keshav Patidar
Principal

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
TIME TABLE
MST-II Oct-2023

EXAM: B.Tech. (All Branches) V Semester

Branch/Time	30/10/2023 (MONDAY)		31/10/2023 (TUESDAY)		01/11/2023 (WEDNESDAY)
	10:00 AM-12:30 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon
CS	Aptitude	CS-501 TOC	CS-502 DBMS	CS-503 (C) Cyber Security	CS-504 (A) Internet and Web Technology
IT	Aptitude	IT-501 OS	IT-502 CN	IT-503 TOC	IT-504 JAVA PROG.
ADML	Aptitude	AL-501 OS	AL-502 DBMS	AL-503 (B) Deep Learning	AL-504 (A) AI in Health Care
CM	Aptitude	CM-501 MT-I	CM-502 HT	CM-503 CMC	CM-504(A) OPT
EC	Aptitude	EC-501 MIA	EC-502 DC	EC-503 CNTL	EC-504 EMT
ME	Aptitude	ME-501 ICE	ME-502 MV	ME-503 DOM	ME-504 JEE
CE	Aptitude	CE-501 FM-I	CE-502 TE-II	CE-503 QSC	CE-504 UTP

Note- Candidate should note the dates & sequence of subjects very carefully.

Dr. Keshav Patilkar
Principal



IQAC

Principal
Indore Institute of Science
and Technology, Indore

Principal

Examination
SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)



Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024



Indore Institute of Science & Technology

IIST/Dec.-23/02

Academic Year 2023-24 (Odd Sem.)

Date: 22.12.2023

NOTICE


Mid – Semester Tests (MST-II) for 1st Year (1st Sem.) students are scheduled on 08th, 09th and 10th Jan. -2024

Dear all,

This is to inform all of you that the Centralized MST-II for 1st year students are scheduled on 08th (Monday), 09th (Tuesday) & 10th (Wednesday) January, 2024. In this regard it is to further inform you that:

1. Please submit one question paper per subject in PDF format on or before 29th (Friday) Dec., 2023. (Question Paper should be prepared in Times New Roman with 12 font size in the given format. The compiled & verified QPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).
2. The evaluation of MST-II answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-II marks by the respective department has to be done on 16th (Tuesday) Jan., 2024 and submit the copy to undersign.

Please take a note of it and act accordingly.


Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. Dean/HOD
2. All faculty and staff
3. Exam Dept.
4. Registrar office
5. IQAC
6. DG Office
7. Office Record

Opp. IIM(Indore), Rau-Pilkhampur Road, Rau, Indore (M.P.) - 452003
☎ 031-267-1000 / 2000 / 2000 / 4000 / 8000 | Tel: (031) 2671000 | Fax: (031) 2671000 | Toll Free: 1800 101 2004



Examination
SUPERINTENDENT OF EXAMINATION


R.G.P.V. EXAMINATION

INDORE INSTITUTE OF SCIENCE & TECH.

INDORE (M.P.)



Page 151 of 239


Principal
Indore Institute of Science
and Technology, Indore

Principal

21-12-2024 17:34



Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)
2023-2024



IIST/Dec.-23/03

Academic Year 2023-24 (Odd Sem.)

Date: 22.12.2023

NOTICE

Mid - Semester Tests (MST-II) of 1st Year

Dear All,

This to inform you that the centralized MST-II for the session July to Dec., 2023 scheduled as mention below:

Dates for MST-II (Theory)

MST-II	Year/Sem.	Date
Theory	<u>1st Year</u>	08 th (Monday), 09 th (Tuesday) & 10 th (Wednesday) January, 2024.

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-II exam will be from remaining units covered after MST-I.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz - 1 after MST-I
05 Marks for Quiz - 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.

Wishing you best wishes and good luck for the upcoming MST'

Dr. Keshav Patidar
Principal
IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

Opp. IIM (Indore), Rau-Pithampur Road, Rau, Indore (M.P.) - 453333
☎ 0781-2571500 / 2000 / 2000 / 4000 / 5444 ☎ 0781-4978320 ☎ 0781-4978321 ☎ 0781-4978322 ☎ 0781-4978323 ☎ 0781-4978324 ☎ 0781-4978325 ☎ 0781-4978326 ☎ 0781-4978327 ☎ 0781-4978328 ☎ 0781-4978329 ☎ 0781-4978330 ☎ 0781-4978331 ☎ 0781-4978332 ☎ 0781-4978333 ☎ 0781-4978334 ☎ 0781-4978335 ☎ 0781-4978336 ☎ 0781-4978337 ☎ 0781-4978338 ☎ 0781-4978339 ☎ 0781-4978340 ☎ 0781-4978341 ☎ 0781-4978342 ☎ 0781-4978343 ☎ 0781-4978344 ☎ 0781-4978345 ☎ 0781-4978346 ☎ 0781-4978347 ☎ 0781-4978348 ☎ 0781-4978349 ☎ 0781-4978350 ☎ 0781-4978351 ☎ 0781-4978352 ☎ 0781-4978353 ☎ 0781-4978354 ☎ 0781-4978355 ☎ 0781-4978356 ☎ 0781-4978357 ☎ 0781-4978358 ☎ 0781-4978359 ☎ 0781-4978360 ☎ 0781-4978361 ☎ 0781-4978362 ☎ 0781-4978363 ☎ 0781-4978364 ☎ 0781-4978365 ☎ 0781-4978366 ☎ 0781-4978367 ☎ 0781-4978368 ☎ 0781-4978369 ☎ 0781-4978370 ☎ 0781-4978371 ☎ 0781-4978372 ☎ 0781-4978373 ☎ 0781-4978374 ☎ 0781-4978375 ☎ 0781-4978376 ☎ 0781-4978377 ☎ 0781-4978378 ☎ 0781-4978379 ☎ 0781-4978380 ☎ 0781-4978381 ☎ 0781-4978382 ☎ 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R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)



Principal
Indore Institute of Science
and Technology, Indore
Principal



Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)
2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year/ 1st Sem [CBGS]
MST-II TIME TABLE
SESSION- 2023-24 (Sept-December)

Group-A					
Date	8-Jan-24		9-Jan-24		10-Jan-24
Section/Time	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm
A-1	BT-101 Engineering chemistry	BT-105 Engg. Graphics	BT-104 BEEF	BT-103 English for Communication	BT-102 Engg. Mathematics-I
A-2	BT-101 Engineering chemistry	BT-104 BEEF	BT-105 Engg. Graphics	BT-103 English for Communication	BT-102 Engg. Mathematics-I
A-3	BT-101 Engineering chemistry	BT-103 English for Communication	BT-104 BEEF	BT-105 Engg. Graphics	BT-102 Engg. Mathematics-I
A-4	BT-105 Engg. Graphics	BT-103 English for Communication	BT-104 BEEF	BT-101 Engineering chemistry	BT-102 Engg. Mathematics-I

HOD  Principal 



Principal
Indore Institute of Science
and Technology, Indore

Principal

Examination
SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)



Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)
2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year 1st Sem [CBGS]
MST-II TIME TABLE
SESSION- 2023-24 (Sept-December)

Date	Group-B				
	8-Jan-24		9-Jan-24		10-Jan-24
Section/Time	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm
B-1	BT-205 Basic Computer Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-204 Basic Civil Engg.	BT-102 Engg. Mathematics-I
B-2	BT-205 Basic Computer Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-204 Basic Civil Engg.	BT-102 Engg. Mathematics-I
B-3	BT-205 Basic Computer Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-204 Basic Civil Engg.	BT-102 Engg. Mathematics-I
B-4	BT-205 Basic Computer Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-204 Basic Civil Engg.	BT-102 Engg. Mathematics-I

HOD
Principal

Examination
SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)

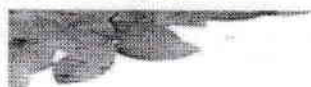


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2023-2024



IIST/Jan.-24/02

Academic Year 2023-24 (Even Sem.)

Date: 31.01.2024

NOTICE

**Mid - Semester Tests (MST-I) for 4th year (8th Sem.) students are
scheduled on 20th and 21st Feb. -2024**

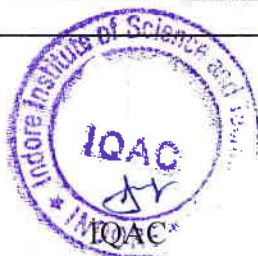
Dear all,
This is to inform all of you that the Centralized MST-I for 4th year 8th sem. students are
scheduled on 20th (Tuesday) & 21st (Wednesday) Feb., 2024. In this regard it is to further
inform you that:

1. Please submit one question paper per subject in PDF format on or before 15th (Thursday) Feb., 2024. *(Question Paper should be prepared in 'Times New Roman with 12 font size in the given format. The compiled & verified QPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).*
2. The evaluation of MST-I answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-I marks by the respective department has to be done on 27th (Tuesday) Feb., 2024 and submit the copy to undersign.

Please take a note of it and act accordingly.

Dr. Keshav Patidar
Principal
IIST, Indore

- C.C.to:-
1. Dean/HOD
 2. All faculty and staff
 3. Exam Dept.
 4. Registrar office
 5. IQAC
 6. DG Office
 7. Office Record



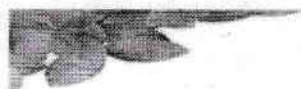
Principal
Indore Institute of Science
and Technology, Indore

Principal

Examination
SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)



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2023-2024



IIST/Jan.-24/03

Academic Year 2023-24 (Even Sem.)

Date: 31.01.2024

NOTICE

Mid – Semester Tests (MST-I) of 4th Year (08th Sem.)

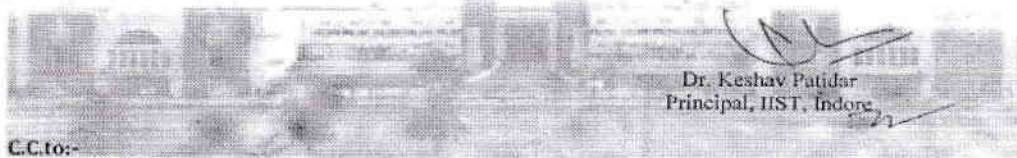
Dear All,

This to inform you that the centralized MST-I for the session Jan. to June, 2024 scheduled in offline mode as mention below:

Indore Institute of Science & Technology		
<u>Dates for MST-I (Theory)</u>		
MST-I	Year/Sem.	Date
Theory	4th Year (08th Sem.)	20th (Tuesday) & 21st (Wednesday) Feb., 2024.

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-I exam will be from the first two and half units of the respective subjects and MST-II will cover remaining units.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz – 1 after MST-I
05 Marks for Quiz – 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. **Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.**

'Wishing you best wishes and good luck for the upcoming MST'



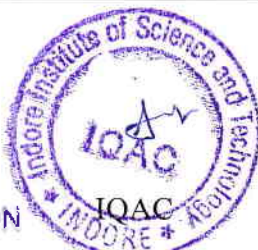
Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

[Signature]

Examination
**SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)**



Principal
Indore Institute of Science
and Technology, Indore

Principal




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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
TIME TABLE
MST-I Feb -2024

EXAM: B.Tech. (All Branches) VIII Semester

Date	20/02/2024 (TUESDAY)		21/02/2024 (WEDNESDAY)	
Branch/Time	10:00AM-12:00 Noon	1:30 PM-3:30 PM	10:00AM-12:00 Noon	
CS	CS 801 IoT	CS 802 (B) CC	CS 803 (D) MI & E	
IT	IT 801 IS	IT 802 (A) ML	IT 803 (D) Parallel Computing	
CM	CM 801 Chemical Process Modeling & Simulation	CM 802 (B) Process safety & Hazards Management	CM 803 (A) Process Plant Economics & Management	
EC	EC-801 OFC	EC-802 WC	EC-803 A WN	
ME	ME 801 RAC	ME 802 (A) AE	ME 803 (C) EMC	
CE	CE-801 DSS	CE-802(B) Foundation Engineering	CE-803(C) Retrofitting and Rehabilitation of Structures	

Note- Candidate should note the dates & sequence of subjects very carefully.


 Dr. Keshav Parildar
Principal



Examination
SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)




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2023-2024



**Indore Institute of
Science & Technology**

IIST/Feb.-24/01
Academic Year 2023-24 (Even Sem.)
Date: 20.02.2024

NOTICE

Mid – Semester Tests (MST-I) for 3rd year (6th Sem.) students are scheduled on 04th and 05th March -2024


Dear all,
This is to inform all of you that the Centralized MST-I for 3rd year 6th sem. students are scheduled on 04th (Monday) & 05th (Tuesday) March, 2024. In this regard it is to further inform you that:

1. Please submit one question paper per subject in **PDF format** on or before **26th (Monday) Feb., 2024**. *(Question Paper should be prepared in 'Times New Roman with 12 font size in the given format. The compiled & verified OPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).*
2. The evaluation of MST-I answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-I marks by the respective department has to be done on **15th (Friday) March, 2024** and submit the copy to undersign.

Please take a note of it and act accordingly.

C.C.to:

1. Dean/HOD
2. All Faculty and staff
3. Exam Dept.
4. Registrar office
5. IQAC
6. DG Office
7. Office Record



Dr. Keshay Patidar
Principal
IIST, Indore

Opp. IIM(Indore), Rau-Pithampur Road, Rau, Indore (MP) - 452003
 (E) 822 827 1000 / 2000 / 3000 / 4000 / 5000 (T) 0731 4010201 / 4010202 / 4010203 (F) 0731 4010204 / 4010205 / 4010206 / 4010207 / 4010208 / 4010209 / 4010210 / 4010211 / 4010212 / 4010213 / 4010214 / 4010215 / 4010216 / 4010217 / 4010218 / 4010219 / 4010220 / 4010221 / 4010222 / 4010223 / 4010224 / 4010225 / 4010226 / 4010227 / 4010228 / 4010229 / 4010230 / 4010231 / 4010232 / 4010233 / 4010234 / 4010235 / 4010236 / 4010237 / 4010238 / 4010239 / 4010240 / 4010241 / 4010242 / 4010243 / 4010244 / 4010245 / 4010246 / 4010247 / 4010248 / 4010249 / 4010250 / 4010251 / 4010252 / 4010253 / 4010254 / 4010255 / 4010256 / 4010257 / 4010258 / 4010259 / 4010260 / 4010261 / 4010262 / 4010263 / 4010264 / 4010265 / 4010266 / 4010267 / 4010268 / 4010269 / 4010270 / 4010271 / 4010272 / 4010273 / 4010274 / 4010275 / 4010276 / 4010277 / 4010278 / 4010279 / 4010280 / 4010281 / 4010282 / 4010283 / 4010284 / 4010285 / 4010286 / 4010287 / 4010288 / 4010289 / 4010290 / 4010291 / 4010292 / 4010293 / 4010294 / 4010295 / 4010296 / 4010297 / 4010298 / 4010299 / 4010300 / 4010301 / 4010302 / 4010303 / 4010304 / 4010305 / 4010306 / 4010307 / 4010308 / 4010309 / 4010310 / 4010311 / 4010312 / 4010313 / 4010314 / 4010315 / 4010316 / 4010317 / 4010318 / 4010319 / 4010320 / 4010321 / 4010322 / 4010323 / 4010324 / 4010325 / 4010326 / 4010327 / 4010328 / 4010329 / 4010330 / 4010331 / 4010332 / 4010333 / 4010334 / 4010335 / 4010336 / 4010337 / 4010338 / 4010339 / 4010340 / 4010341 / 4010342 / 4010343 / 4010344 / 4010345 / 4010346 / 4010347 / 4010348 / 4010349 / 4010350 / 4010351 / 4010352 / 4010353 / 4010354 / 4010355 / 4010356 / 4010357 / 4010358 / 4010359 / 4010360 / 4010361 / 4010362 / 4010363 / 4010364 / 4010365 / 4010366 / 4010367 / 4010368 / 4010369 / 4010370 / 4010371 / 4010372 / 4010373 / 4010374 / 4010375 / 4010376 / 4010377 / 4010378 / 4010379 / 4010380 / 4010381 / 4010382 / 4010383 / 4010384 / 4010385 / 4010386 / 4010387 / 4010388 / 4010389 / 4010390 / 4010391 / 4010392 / 4010393 / 4010394 / 4010395 / 4010396 / 4010397 / 4010398 / 4010399 / 4010400 / 4010401 / 4010402 / 4010403 / 4010404 / 4010405 / 4010406 / 4010407 / 4010408 / 4010409 / 4010410 / 4010411 / 4010412 / 4010413 / 4010414 / 4010415 / 4010416 / 4010417 / 4010418 / 4010419 / 4010420 / 4010421 / 4010422 / 4010423 / 4010424 / 4010425 / 4010426 / 4010427 / 4010428 / 4010429 / 4010430 / 4010431 / 4010432 / 4010433 / 4010434 / 4010435 / 4010436 / 4010437 / 4010438 / 4010439 / 4010440 / 4010441 / 4010442 / 4010443 / 4010444 / 4010445 / 4010446 / 4010447 / 4010448 / 4010449 / 4010450 / 4010451 / 4010452 / 4010453 / 4010454 / 4010455 / 4010456 / 4010457 / 4010458 / 4010459 / 4010460 / 4010461 / 4010462 / 4010463 / 4010464 / 4010465 / 4010466 / 4010467 / 4010468 / 4010469 / 4010470 / 4010471 / 4010472 / 4010473 / 4010474 / 4010475 / 4010476 / 4010477 / 4010478 / 4010479 / 4010480 / 4010481 / 4010482 / 4010483 / 4010484 / 4010485 / 4010486 / 4010487 / 4010488 / 4010489 / 4010490 / 4010491 / 4010492 / 4010493 / 4010494 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/ 4010695 / 4010696 / 4010697 / 4010698 / 4010699 / 4010700 / 4010701 / 4010702 / 4010703 / 4010704 / 4010705 / 4010706 / 4010707 / 4010708 / 4010709 / 4010710 / 4010711 / 4010712 / 4010713 / 4010714 / 4010715 / 4010716 / 4010717 / 4010718 / 4010719 / 4010720 / 4010721 / 4010722 / 4010723 / 4010724 / 4010725 / 4010726 / 4010727 / 4010728 / 4010729 / 4010730 / 4010731 / 4010732 / 4010733 / 4010734 / 4010735 / 4010736 / 4010737 / 4010738 / 4010739 / 4010740 / 4010741 / 4010742 / 4010743 / 4010744 / 4010745 / 4010746 / 4010747 / 4010748 / 4010749 / 4010750 / 4010751 / 4010752 / 4010753 / 4010754 / 4010755 / 4010756 / 4010757 / 4010758 / 4010759 / 4010760 / 4010761 / 4010762 / 4010763 / 4010764 / 4010765 / 4010766 / 4010767 / 4010768 / 4010769 / 4010770 / 4010771 / 4010772 / 4010773 / 4010774 / 4010775 / 4010776 / 4010777 / 4010778 / 4010779 / 4010780 / 4010781 / 4010782 / 4010783 / 4010784 / 4010785 / 4010786 / 4010787 / 4010788 / 4010789 / 4010790 / 4010791 / 4010792 / 4010793 / 4010794 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Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)
2023-2024



HST/Feb.-24/05

Academic Year 2023-24 (Even Sem.)

Date: 20.02.2024

NOTICE

Mid - Semester Tests (MST-I) of 3rd Year (06th Sem.)

Dear All,

This to inform you that the centralized MST-I for the session Jan. to June, 2024 scheduled in offline mode as mention below:

Indore Institute of Science & Technology		
<u>Dates for MST-I (Theory)</u>		
MST-I	Year/Sem.	Date
Theory	<u>3rd Year (06th Sem.)</u>	04 th (Monday) & 05 th (Tuesday) March, 2024.

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-I exam will be from the first two and half units of the respective subjects and MST-II will cover remaining units.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz - 1 after MST-I
05 Marks for Quiz - 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. **Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.**

NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

'Wishing you best wishes and good luck for the upcoming MST'

Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

Dear Student/Staff

Opp. IIM (Indore), Rau-Pithampur Road, Rau, Indore (M.P.) - 452331
☎ 0731-257-5000/2000 / 3000 / 4000 / 5000 (Toll-free) ☎ 0731-2575111 (Fax) ☎ 0731-2575122 (Toll-free) ☎ 0731-2575133 (Toll-free)

www.indoreiist.ac.in

indoreiist@indoreiist.ac.in



**EXAMINATION SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION,
INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)**

**Principal
Indore Institute of Science
and Technology, Indore
Principal**



Indore Institute of Science & Technology

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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE TIME TABLE MST-I March -2024

*Revised

EXAM: B.Tech. (All Branches) VI Semester

Date	04/03/2024 (MONDAY)		05/03/2024 (TUESDAY)		06/03/2024 (WEDNESDAY)	
	10:00AM-12:00 Noon	1:30 PM-3:30 PM	10:00AM-12:00 Noon	1:30 PM-3:30 PM	10:00AM-12:00 Noon	12:30 PM-3:55 PM
CS	CS 601 ML	CS 602 CN	CS 603 CD	Aptitude	CS 604 PM	Project Presentation
IT	IT 601 CGMM	IT 602 WMC	IT 603 CD	Aptitude	IT 604 SE	Project Presentation
AIML	AL 601 TOC	AL 602 CN	AL 603 IVP	Aptitude	AL 604 ISR	Project Presentation
CM	CM 601 MT II	CM 602 CRE	CM 603 (A) PED I	Aptitude	CM 604 (C) Fertilizer Technology	Project Presentation
EC	EC-601 DSP	EC-602 AWP	EC-603 DC	Aptitude	EC-604 MES	Project Presentation
ME	ME-601 TEGD	ME602 MCD	ME603A TM	Aptitude	ME604C RET	Project Presentation
CE	CE-601 RCC	CE-602 EE-I	CE-603 (A) WRE	Aptitude	CE-604 (C) EIA	Project Presentation


Note- Candidate should note the dates & sequence of subjects very carefully.


Dr. Keshav Patidar
Principal



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INDORE (M.P.)



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2023-2024



IIST/April-24/01

Academic Year 2023-24 (Even Sem.)

Date: 01.04.2024

NOTICE

**Mid - Semester Tests (MST-I) for 1st and 2nd year students are
scheduled on 08th, 12th and 13th April -2024**

Dear all,

This is to inform all of you that the Centralized MST-I for 1st and 2nd year students are scheduled on 08th (Monday), 12th (Friday) & 13th (Saturday) April, 2024. In this regard it is to further inform you that:

1. Please submit one question paper per subject in **PDF format** on or before 03rd (Wednesday) April, 2024. *(Question Paper should be prepared in Times New Roman with 12 font size in the given format. The compiled & verified OPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).*
2. The evaluation of MST-I answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-I marks by the respective department has to be done on 19th (Friday) April, 2024 and submit the copy to undersign.

Please take a note of it and act accordingly.

Dr. Keshav Patidar
Principal
IIST, Indore

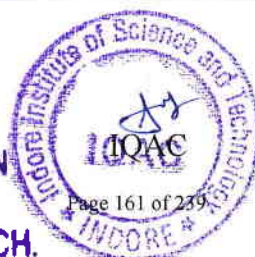
C.C.to:-

1. Dean/HOD
2. All faculty and staff
3. Exam Dept.
4. Registrar office
5. IQAC
6. DG Office
7. Office Record

Omni Value Edu

Off. IIST (Indore), Baza-Pilhanpur Road, Baza, Indore (M.P.) - 492033
(0) 492-407 4080 / 2000 / 2000 / 2000 (Fax: 0975 12 0000) Email: exam@iistindore.com

www.indoreinstitute.com



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2023-2024



IIST/April-24/02

Academic Year 2023-24 (Even Sem.)

Date: 01.04.2024

NOTICE

Mid - Semester Tests (MST-I) of 1st and 2nd Year

Dear All,

This to inform you that the centralized MST-I for the session Jan. to June, 2024 scheduled in offline mode as mention below:

MST-I	Year/Sem.	Date
Theory	<u>1st and 2nd Year</u>	08 th (Monday), 12 th (Friday) & 13 th (Saturday) April, 2024.

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-I exam will be from the first two and half units of the respective subjects and MST-II will cover remaining units.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
05 Marks for Quiz - 1 after MST-I
05 Marks for Quiz - 2 after/before MST-II
Average of the two quizzes is taken for 05 marks.
05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. **Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.**

Wishing you best wishes and good luck for the upcoming MST

Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

Office Home Call

Opp. IIST (Indore), Khas-Pithampur Road, Rau, Indore (M.P.) - 452001
☎ 032-467-5000 / 2000 / 2001 / 2002 / 2003 / 2004 / 2005 / 2006 / 2007 / 2008 / 2009 / 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 / 2018 / 2019 / 2020 / 2021 / 2022 / 2023 / 2024

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Indore Institute of Science
and Technology, Indore
Principal



Indore Institute of Science & Technology

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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE TIME TABLE MST-I APRIL -2024

EXAM: B.Tech. (All Branches) IV Semester

Date	08/04/2024 (MONDAY)		12/04/2024 (FRIDAY)		13/04/2024 (SATURDAY)	
	10:00 AM-12:00 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon	1:30 PM-3:30 PM	10:00 AM-12:00 Noon	1:30 PM-3:30 PM
CS	Aptitude	BT 401 M-3	CS402 ADA	CS 403 SE	CS404 COA	CS405 OS
IT	Aptitude	BT 401 M-3	IT 403 ADA	IT402 CA	IT 404 ADC	IT 405 DBMS
AIML	Aptitude	AL 401 DS&L	AL402 ADA	AL403 SE	AL404 COA	AL405 ML
IOT	Aptitude	IS 401 PS & LA	IS402 IoT	IS 403 OS	IS 404 COA	IS 405 CN
EC	Aptitude	EC401 Energy & Environmental Engineering	EC402 Signals & Systems	EC403 Analog Communication	EC404 Control System	EC405 Analog Circuits
ME	Aptitude	ES401 Energy & Environmental Engineering	ME402 INSTRUMENTATION & CONTROL	ME403 THEORY OF MACHINES	ME404 FLUID MECHANICS	ME405 MANUFACTURING TECHNOLOGY
CE	Aptitude	ES401 Energy & Environmental Engineering	CE-402 Construction Technology	CE-403 Structural Analysis-I	CE-404 Transportation Engineering-I	CE-405 Engineering Geology & Remote Sensing

Note- Candidate should note the dates & sequence of subjects very carefully.

Dr. Keshav Patidar
Principal

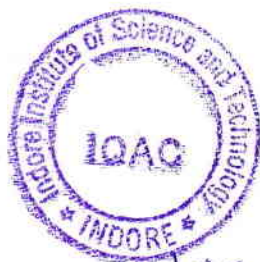
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R.G.P.V. EXAMINATOR

INDORE INSTITUTE OF SCIENCE & TECH.

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year/ IInd Sem [CBGS]
MST-TIME TABLE
SESSION-2023-24 (Feb-May)

Date	Group-A				
	8-Apr-24	12-Apr-24		15-Apr-24	
Session/Time	1:30pm-3:30pm	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm	1:30pm-3:30pm
A-1	BT-202 Engg. Mathematics-II	BT-204 Basic Civil Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.
A-2	BT-202 Engg. Mathematics-II	BT-204 Basic Civil Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.
A-3	BT-202 Engg. Mathematics-II	BT-204 Basic Civil Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.
A-4	BT-202 Engg. Mathematics-II	BT-204 Basic Civil Engg.	BT-201 Engg. Physics	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year/ 1st Sem [CBGS]
MST-I TIME TABLE
SESSION- 2023-24 (Feb-May)

Date	Group B				
	8-Apr-24	12-Apr-24		15-Apr-24	
Session/ Time	11:30am-3:30pm	10:00am-12:00pm	1:30pm-3:30pm	10:00am-12:00pm	1:30pm-3:30pm
B-1	BT-202 Engg. Mathematics-II	BT-108 Engg. Graphics	BT-103 English for Communication	BT-104 Engineering chemistry	BT-104 BT-104
B-2	BT-202 Engg. Mathematics-II	BT-101 Engineering chemistry	BT-103 English for Communication	BT-104 BT-104	BT-105 Engg. Graphics
B-3	BT-202 Engg. Mathematics-II	BT-104 Engineering chemistry	BT-103 English for Communication	BT-105 Engg. Graphics	BT-104 BT-104
B-4	BT-202 Engg. Mathematics-II	BT-101 Engineering chemistry	BT-105 Engg. Graphics	BT-103 English for Communication	BT-104 BT-104

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2023-2024



IIST/April-24/04

Academic Year 2023-24 (Even Sem.)

Date: 26.04.2024

NOTICE


**Mid - Semester Tests (MST-II) for 4th year students are
scheduled on 07th, 08th and 09th May-2024**

Dear all,

This is to inform all of you that the Centralized MST-II for 4th year students are scheduled on 07th (Tuesday), 08th (Wednesday) & 09th (Thursday) May, 2024. In this regard it is to further inform you that:

1. Please submit one question paper per subject in PDF format on or before 01st (Wednesday) May, 2024. (Question Paper should be prepared in Times New Roman with 12 font size in the given format. The compiled & verified QPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).
2. The evaluation of MST-II answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam.
3. The display of consolidated MST-II marks by the respective department has to be done on 15th (Wednesday) May, 2024 and submit the copy to undersign.

Please take a note of it and act accordingly.




Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. Dean/HOD
2. All faculty and staff
3. Exam Dept.
4. Registrar office
5. IQAC
6. DG Office
7. Office Record

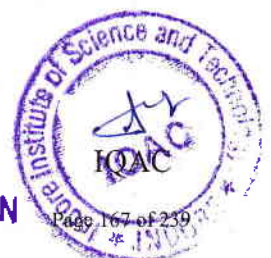


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2023-2024

IIST/April-24/03		<u>Academic Year 2023-24 (Even Sem.)</u>	Date: 26.04.2024
NOTICE			
Mid - Semester Tests (MST-II) of 4th Year			
Dear All, This to inform you that the centralized MST-II for the session Jan. to July, 2024 scheduled in offline mode as mention below:			
<u>Dates for MST-II (Theory)</u>			
MST-II	Year/Sem.	Date	
Theory	4 th Year	07 th (Tuesday), 08 th (Wednesday) & 09 th (Thursday) May, 2024	
<ol style="list-style-type: none"> It is mandatory for all the eligible students to appear and perform in the MST examination. MST is of 20 Marks. The marks obtained in the MST will be uploaded to the University portal. Questions in the MST-II exam will be from remaining units covered after MST-I. Ten Marks towards Quiz & Assignment is evaluated as follows: 05 Marks for Quiz - 1 after MST-I 05 Marks for Quiz - 2 after/before MST-II Average of the two quizzes is taken for 05 marks. 05 Marks for assignment. The schedule and other details related to the MST can also be collected from the respective department. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST. Students having short of attendance will not be permitted for MST. Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST. 			
<i>Wishing you best wishes and good luck for the upcoming MST</i>			
			 Dr. Keshav Patidar Principal, IIST, Indore
C.C.to:- <ol style="list-style-type: none"> All the students Dean/HOD All faculty & Staff Exam Dept. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record 			
			


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INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)**



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Indore Institute of Science
and Technology, Indore
Principal**



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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE TIME TABLE MST-II May -2024

EXAM: B.Tech. (All Branches) VIII Semester

Date	07/05/2024 (Tuesday)	08/05/2024 (Wednesday)	09/05/2024 (Thursday)
Branch/Time	10:00AM-12:00 Noon	10:00AM-12:00 Noon	10:00AM-12:00 Noon
CS	CS 801 IoT	CS 802 (B) CC	CS 803 (D) MI & E
IT	IT 801 IS	IT 802 (A) ML	IT 803 (D) Parallel Computing
CM	CM 801 Chemical Process Modeling & Simulation	CM 802 (B) Process safety & Hazards Management	CM 803 (A) Process Plant Economics & Management
EC	EC-801 OFC	EC-802 WC	EC-803 (A) WN
ME	ME 801 RAC	ME 802 (A) AE	ME 803 (C) EMC
CE	CE-801 DSS	CE-802(B) Foundation Engineering	CE-803(C) Retrofitting and Rehabilitation of Structures

Note- Candidate should note the dates & sequence of subjects very carefully.

Dr. Keshav Patidar
Principal

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INDORE INSTITUTE OF SCIENCE & TECH.
INDORE (M.P.)





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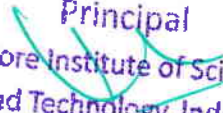


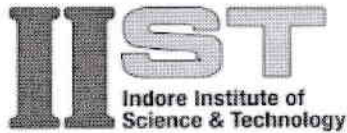
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2023-2024

IIST/June-24/01	<u>Academic Year 2023-24 (Even Sem.)</u>	Date: 14.06.2024
<u>NOTICE</u>		
<u>Mid - Semester Tests (MST-II) for 1st and 2nd year students are scheduled on 28th, 29th June and 1st, 2nd & 3rd July-2024</u>		
<p>Dear all,</p> <p>This is to inform all of you that the Centralized MST-II for 1st & 2nd year students are scheduled on 28th (Friday), 29th (Saturday) June, 1st (Monday), 2nd (Tuesday) & 3rd (Wednesday) July, 2024. In this regard it is to further inform you that:</p>		
<ol style="list-style-type: none"> 1. Please submit one question paper per subject in PDF format on or before 22nd (Saturday) June, 2024. <i>(Question Paper should be prepared in 'Times New Roman with 12 font size in the given format. The compiled & verified OPs should be forwarded by the Dean/HOD to exam@indoreinstitute.com).</i> 2. The evaluation of MST-II answer sheet and uploading of marks on RGPV portal by respective faculty members must be completed within three days of the scheduled exam. 3. The display of consolidated MST-II marks by the respective department has to be done on 09th (Tuesday) July, 2024 and submit the copy to undersign. 		
Please take a note of it and act accordingly.		
<p>C.C.to:-</p> <ol style="list-style-type: none"> 1. Dean/HOD 2. All faculty and staff 3. Exam Dept. 4. Registrar office 5. IQAC 6. DG Office 7. Office Record 		<p> Dr. Keshav Patidar Principal, IIST, Indore</p>
<p><small>Opp. IIM(Indore), Rau-Pithampur Road, Rau, Indore (M.P.) - 453331 (E) 822 407 1900 / 2010 / 3000 / 4000 / 5000 / 6000 (F) 0753 2030022 Toll Free: 1800 112 8001 www.indoreinstitute.com</small></p>		


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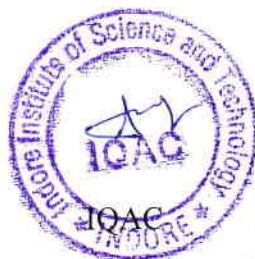
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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year- IIrd Sem [CBGS]
MST-II TIME TABLE
SESSION- 2023-24 (Feb-June)

Group A					
Date	28-Jul-24	29-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24
Session Time	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm
A-1	BT-205 Basic Computer Engg.	BT-203 Basic Mechanical	BT-204 Basic Civil Engg.	BT-201- Engg. Physics	BT-202 Engg. Mathematics-II
A-2	BT-203 Basic Mechanical	BT-201- Engg. Physics	BT-205 Basic Computer Engg.	BT-204 Basic Civil Engg.	BT-202 Engg. Mathematics-II
A-3	BT-204 Basic Civil Engg.	BT-202 Engg. Mathematics-II	BT-201- Engg. Physics	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.
A-4	BT-202 Engg. Mathematics-II	BT-204 Basic Civil Engg.	BT-203 Basic Mechanical	BT-205 Basic Computer Engg.	BT-201- Engg. Physics

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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
B.Tech. 1st Year/ Hnd Sem [CBGS]
MST-II TIME TABLE
SESSION- 2023-24 (Feb-June)

Group-B					
Date	28-Jun-24	29-Jun-24	1-Jul-24	2-Jul-24	3-Jul-24
Section/Time →	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm	10:00am-12:00pm
B-1	BT-103 English for Communication	BT-101 Engineering chemistry	BT-105 Engg. Graphics	BT-104 BEEE	BT-202 Engg. Mathematics-II
B-2	BT-104 BEEE	BT-105 Engg. Graphics	BT-101 Engineering chemistry	BT-103 English for Communication	BT-202 Engg. Mathematics-II
B-3	BT-105 Engg. Graphics	BT-104 BEEE	BT-103 English for Communication	BT-101 Engineering chemistry	BT-202 Engg. Mathematics-II
B-4	BT-101 Engineering chemistry	BT-103 English for Communication	BT-104 BEEE	BT-105 Engg. Graphics	BT-202 Engg. Mathematics-II

HOD
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Indore Institute of Science
and Technology, Indore

Principal

SUPERINTENDENT OF EXAMINATION
R.G.P.V. EXAMINATION
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INDORE (M.P.)



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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE

TIME TABLE
MST-II JUNE -2024

EXAM: B.Tech. (All Branches) IV Semester


Date	28/06/2024 (FRIDAY)	29/06/2024 (SATURDAY)	01/07/2024 (MONDAY)	02/07/2024 (TUESDAY)	03/07/2024 (WEDNESDAY)
Branch/Time	10:00AM-12:00 Noon	10:00AM-12:00 Noon	10:00AM-12:00 Noon	10:00AM-12:00 Noon	10:00AM-12:00 Noon
CS	BT 401 M-3	CS402 ADA	CS 403 SE	CS404 COA	CS405 OS
IT	BT 401 M-3	IT 403 ADA	IT402 CA	IT 404 ADC	IT 405 DBMS
AIML	AL 401 DS&L	AL402 ADA	AL403 SE	AL404 COA	AL405 ML
IOT	IS 401 PS & LA	IS402 FioT	IS 403 OS	IS 404 COA	IS 405 CN
EC	EC401 Energy & Environmental Engineering	EC402 Signals & Systems	EC403 Analog Communication	EC404 Control System	EC405 Analog Circuits
ME	ES401 Energy & Environmental Engineering	ME402 INSTRUMENTATION & CONTROL	ME403 THEORY OF MACHINES	ME404 FLUID MECHANICS	ME405 MANUFACTURING TECHNOLOGY
CE	ES401 Energy & Environmental Engineering	CE-402 Construction Technology	CE-403 Structural Analysis-I	CE-404 Transportation Engineering-I	CE-405 Engineering Geology & Remote Sensing

Note- Candidate should note the dates & sequence of subjects very carefully.


Dr. Keshav Patidar
Principal



Principal
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and Technology, Indore


Principal

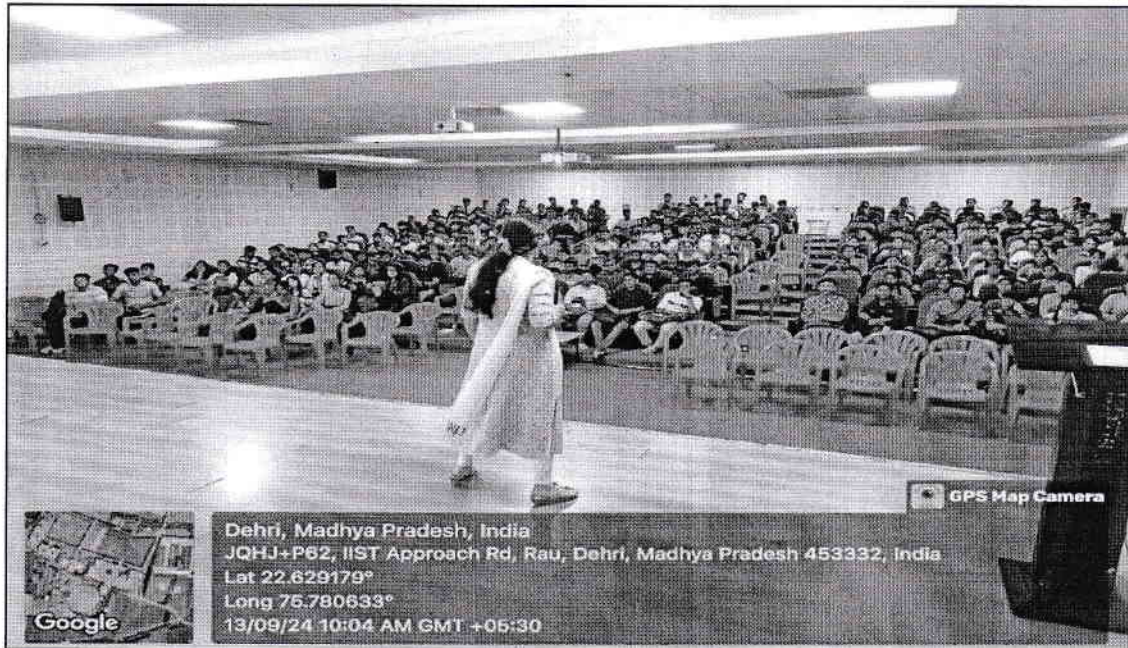
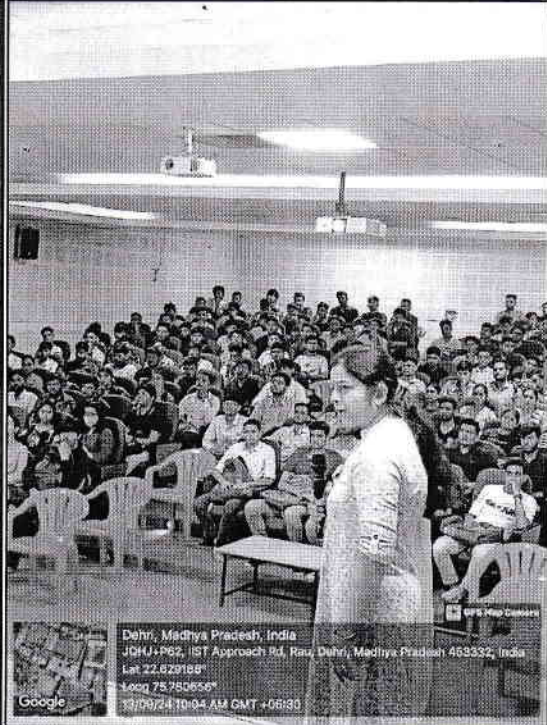
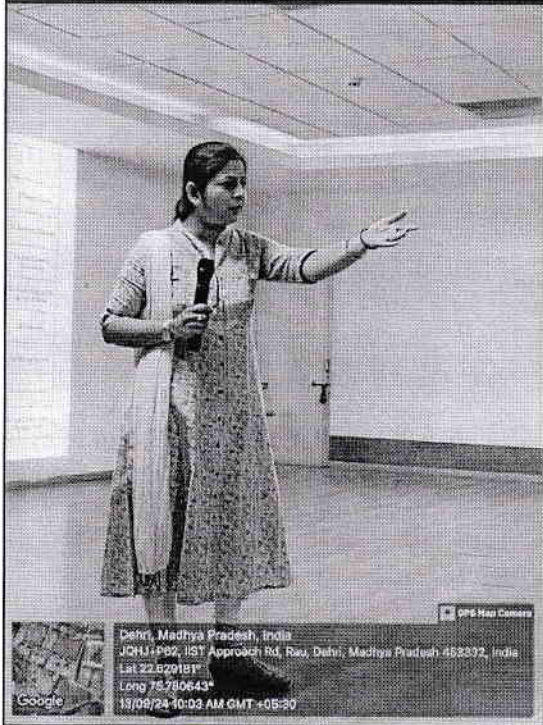
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H. Inform during Induction Program



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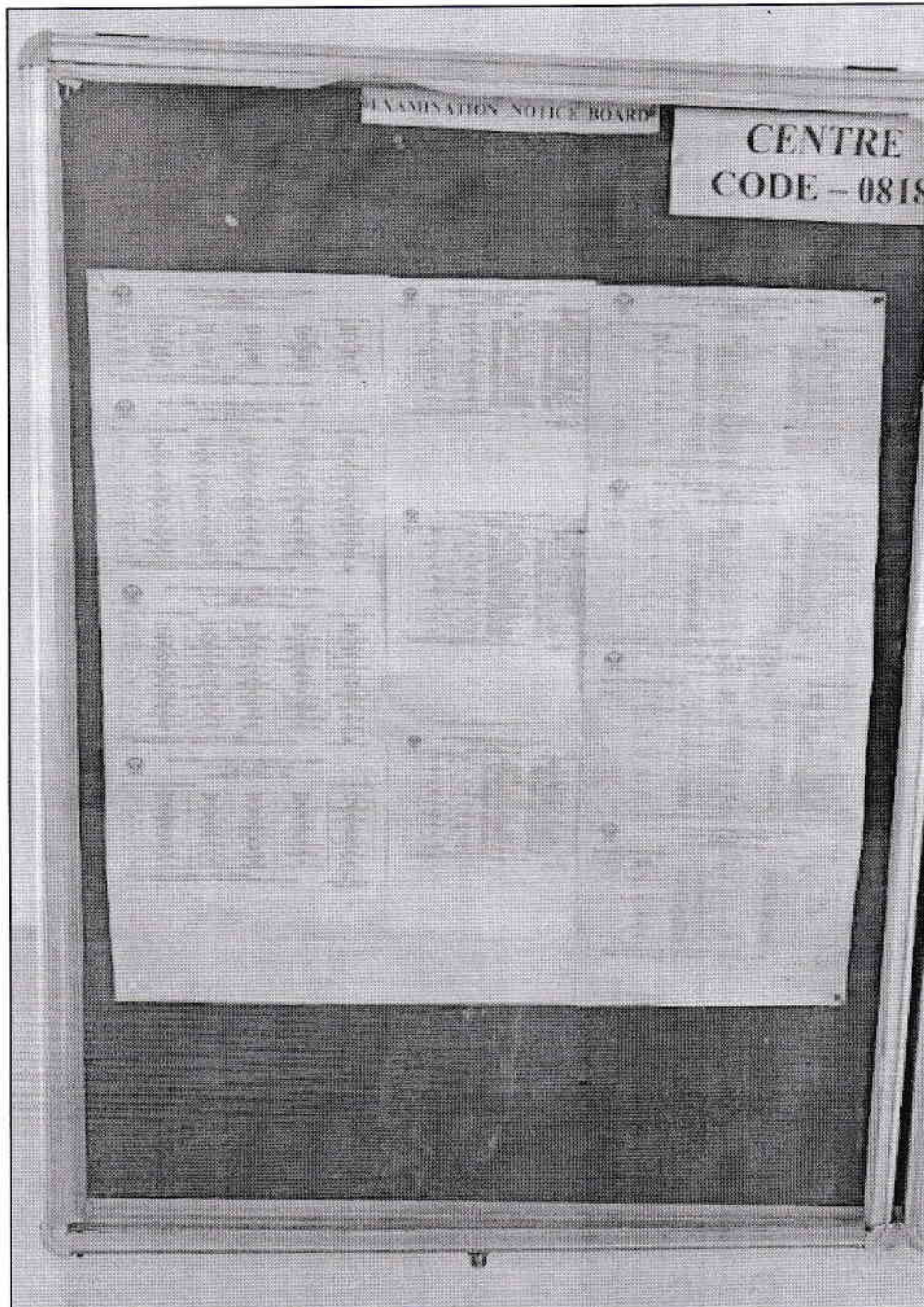
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I. Display of External / Internal Timetable on Notice Board



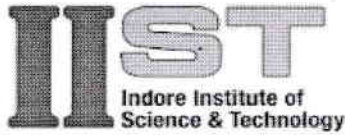
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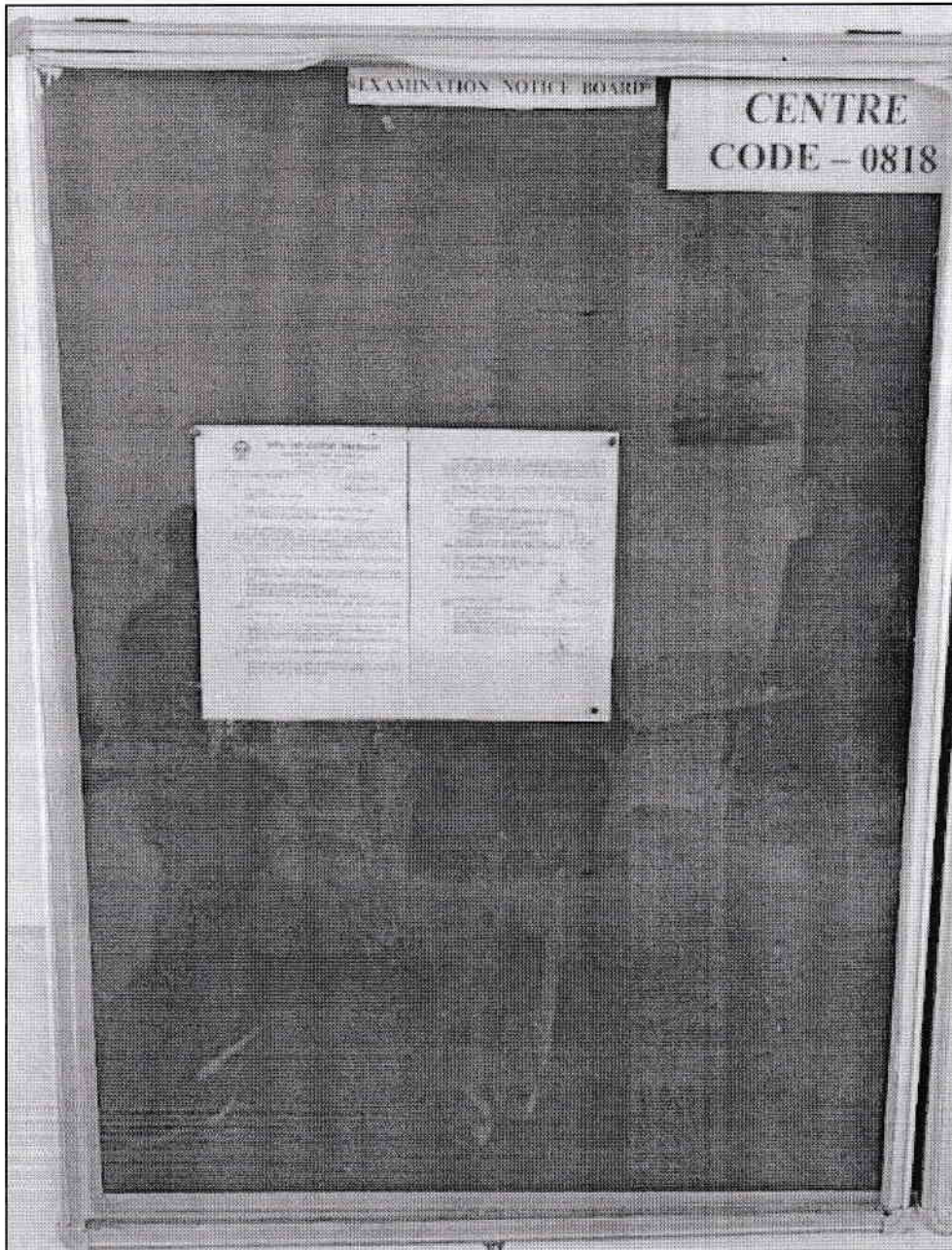
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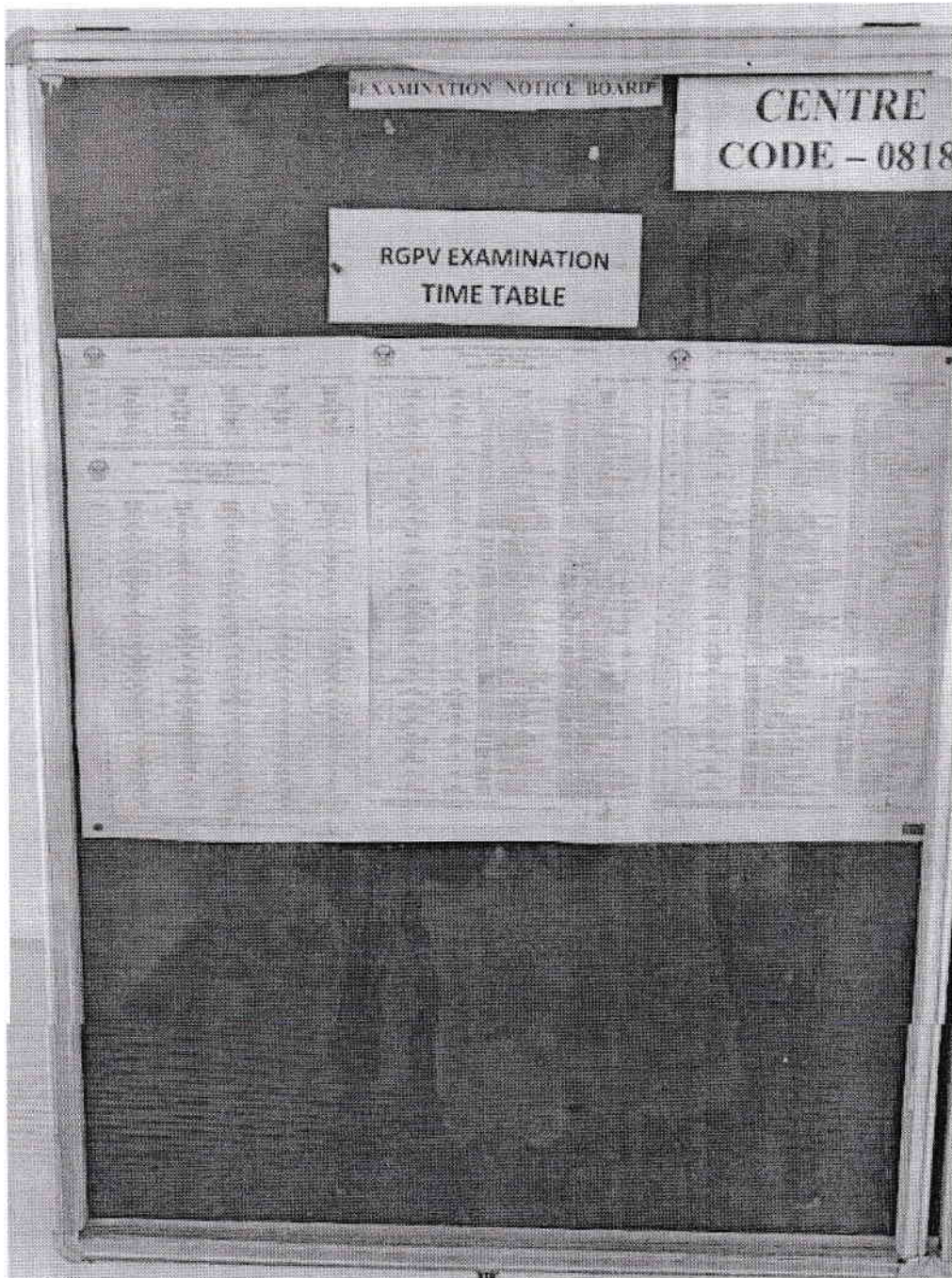
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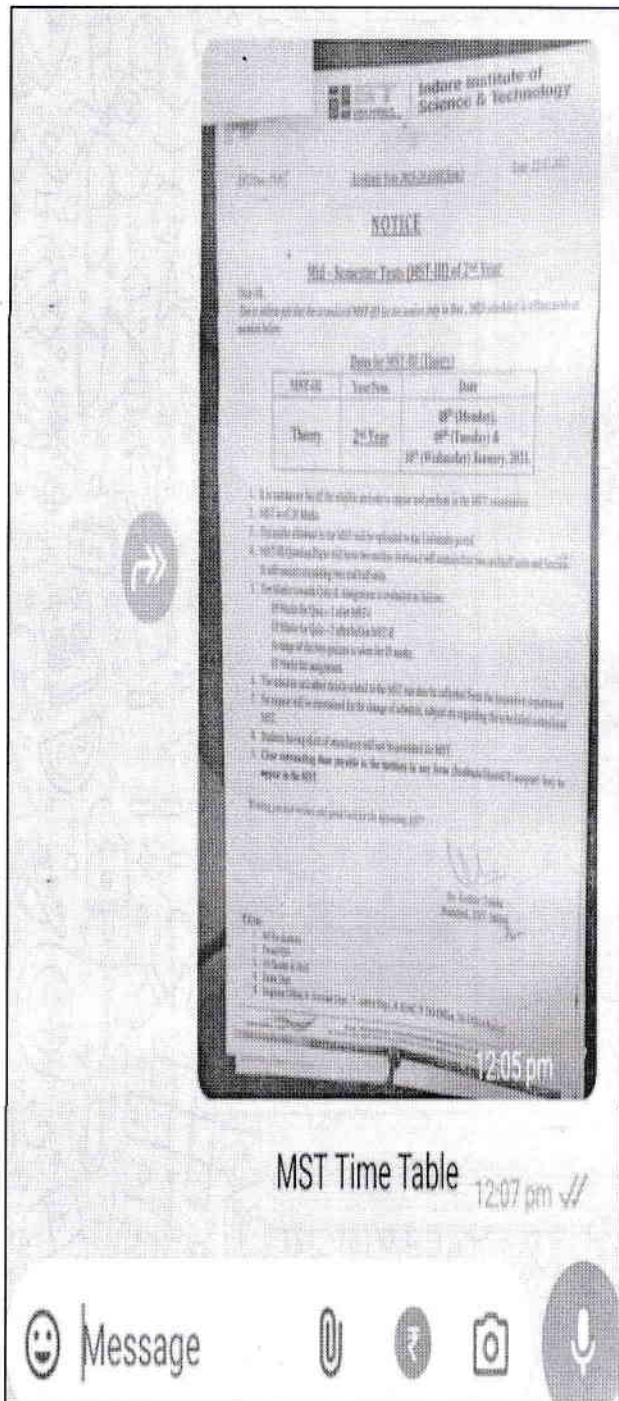
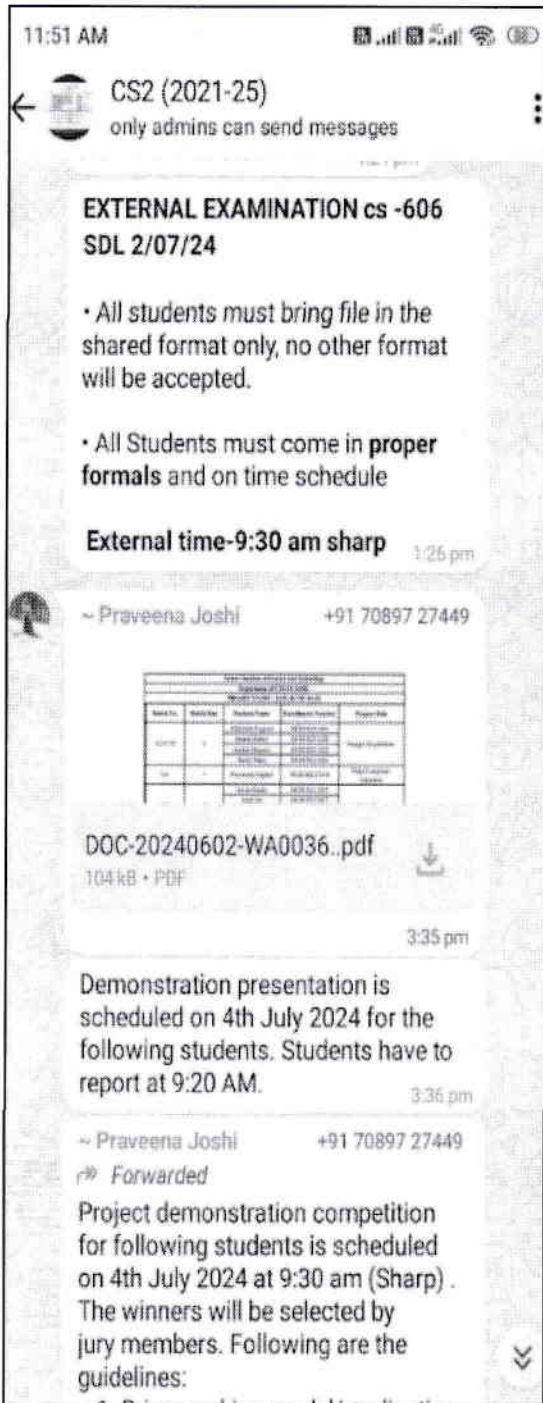
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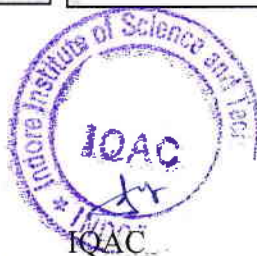
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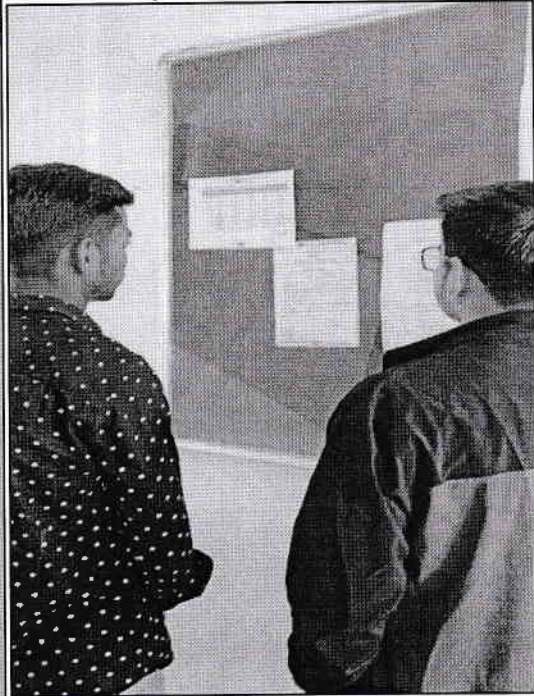
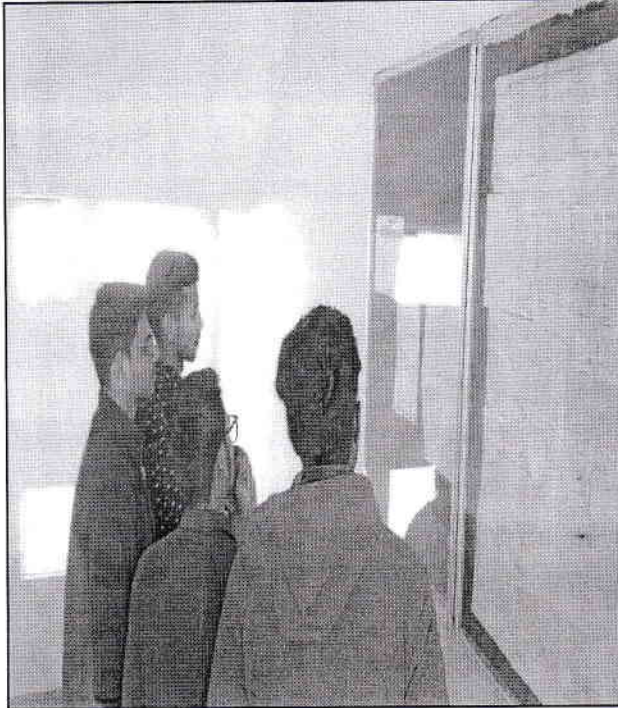


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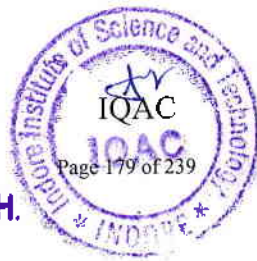


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J. University Notice for display internal marks



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K. External Observer Appointment from Affiliated University for more transparency Dec
2023

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
Nodal Centre, Indore
Chameli Devi Group of Institutions
Khandwa Road, Indore-452020

Tel: No-0731-4243609 e-Mail: rgpv_nodal_indore@rgpv.ac.in

No. CDGI NODAL/Exam/Nov/Dec 2023 Indore, Dated: 30/11/2023

To: (1) Mr. Y.S. Chashan Mobile No. 94250 59018

(2) Mobile No. _____

Subject: Appointment as Observer for Theory / Practical / Dissertation viva of B.E / B.Tech. / B.Pharma. / B.Arch /
M.E. / M.Tech. / M.Pharma / MCA/MBA / D.Pharma Exam Commencing w.e.f. 05 Dec 2023.

You have been appointed as observer for Theory and Practical Examination for B.E / B.Tech. / B.Pharma.
/ B.Arch / M.E. / M.Tech. / M.Pharma / MCA / MBA / D. Pharma etc. starting from 05 Dec 2023 at centre (Code
No.) OSIS.

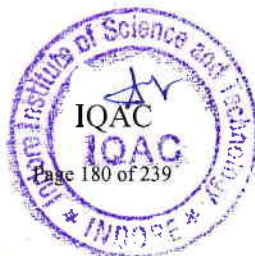
You may collect the time table from the Exam Centre.

- You are requested to visit the institute a day in advance for theory examination and have meeting with all exam officials & Invigilators. Check the seating arrangements and CCTV cameras installed in class room/control room under strict vigilance of words. At entry gate, exam control room and halls & mention about it in observer register.
- Please check the candidate's identity in examination hall seating plan by verifying from the test admit card / board / Smart card issued by RGPV, also check Total no. of students appearing in the exam as per RABA. Strictly and mention the report in weekly diary if any discrepancy is there.
- Check the stock register of question paper and stock of answer books along with OMR sheet (Stitched with answer book) and put your counter signature on certificate of verification in stock ledger.
- Kindly keep strict vigilance during the entire examination. Invigilators have to do the verification of OMR sheet strictly. Ensure that entries in the Answer Register OMR have been checked by invigilators carefully.
- All UFM reports should be countersigned by observer on duty, and ensure that they are entered in the UFM register daily.
- Record your daily observation in observer's diary and submit it at the end of the week to the undersigned.
- One of the observers will constantly check CCTV screen in the control room turn by turn along with help of one teacher in the control room and record the observation in the register.
- Ensure before submitting your remuneration bill along with the PAN card Xerox and first page of Bank Passbook and mention the details of visit pertaining to the theory and practical examination with details.
- One of the observer turn by turn will also present in M.E / M.Tech. Viva dissertation work also. No separate bill will be prepared for this.
- Alert closely monitor the number of shifts in the hall.
- One or two rovers search may be carried out by you during theory examination.
- You will have to go to nearby centre for supervision of Practical Exam as and when called by the centre.

(Dr. Anish Kumar Choudhary)
Coordinator
CDGI, RGPV Nodal Centre,
Indore, Dardl

Copy To:
Principal/ Director/ Senior Centre Nodal 0818, IIST, Indore (rubline)
for information and necessary action and with the request to extend full cooperation to the observers and provide them all facilities enlisted to coordination of Exam time table/guidelines.

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L. External Observer Appointment from Affiliated University for more transparency
June 2024

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
Nodal Centre, Indore
Chameli Devi Group of Institutions
Khandwa Road, Indore-452020

Tel. No: 0731-4243609 e-Mail: rgpv.nodal.indore@rgpv.ac.in

No. CDGI NODAL/Exam/May-Aug 2024: _____ Indore, Dated: 11/05/2024

To: (1) Mr. Abdul Malik Mobile No: 84253 14443

(2) _____ Mobile No: _____

Subject: Appointment as Observer for Theory / Practical / Dissertation work of B.E. / B.Tech. / B.Pharm. / B.Arch. / M.E. / M.Tech. / M.Pharm. / MCA/MBA / D.Pharm Exam Commencing w.e.f. 16th May 2024.

You have been appointed as observer for Theory and Practical Examination for B.E. / B.Tech. / B.Pharm. / B.Arch. / M.E. / M.Tech. / M.Pharm. / MCA / MBA / D. Pharm. etc. starting from 16th May 2024 at centre (Code No.): 0818

You may collect the time table from the Exam Centre.

- You are requested to visit the Institute a day in advance for theory examination and have meeting with all exam officials & Invigilators. Check the seating arrangements and CCTV cameras installed in class room/control room under strict vigilance of super. At entry gate, exam control room and halls & mention about it in observer register.
- Please check the candidate's identity in examination halls seating plan by verifying from the test admit card / E-card / Smart card issued by RGPV, also check Total no. of students appearing in the exam as per RABA. **Strictly** and mention the report in weekly diary if any discrepancy is there.
- Check the stock register of question paper and stock of answer books along with OMR sheet (Stitched with answer book) and put your consumer signature on certificate of verification in stock ledger.
- Keenly keep strict vigilance during the entire examination. Invigilators have to do the verification of OMR sheet strictly. Ensure that entries in the Answer Booklet OMR have been checked by invigilators carefully.
- All UFM reports should be countersigned by observer on duty, and ensure that they are entered in the UFM register daily.
- Record your daily observation in observer's diary and submit it at the end of the week to the undersigned.
- One of the observers will constantly check CCTV screen in the control room turn by turn along with help of one teacher in the control room and record the observation in the register.
- Ensure before submitting your remuneration bill along with the PAN card Xerox and first page of Bank Passbook and mention the details of visit pertaining to the theory and practical examination with details.
- One of the observer turn by turn will also present in M.E. / M.Tech. Viva dissertation work also. No separate bill will be prepared for this.
- Also clearly mention the number of alerts in the bill.
- One or two rooms search may be carried out by you during theory examination.
- You will have to go to nearby centre for supervision of Practical Exam as and when called by the centre.

(Dr. Anish Kumar Choudhary)
Coordinator
CDGI, RGPV Nodal Centre
Indore, M.P.

Copy To:
Principal Director/Nodal Centre Super: 0818, IIST, Indore
for information and necessary action and with the request to extend full cooperation to the observer and provide them all rules related to conduction of Exam time table guidelines.

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M. AICTE Exam Reform Policy Adopt by IIST

Mr. Titu Singh Arora, Centre Superintendent, Exam Department, Attends Training on AICTE Examination Reforms Policy

Mr. Titu Singh Arora, the Centre Superintendent of the Examination Department, participated in an intensive training session focused on the newly introduced AICTE Examination Reforms Policy. The training aimed at equipping exam officials with the necessary knowledge and skills to effectively implement the updated examination protocols and ensure the seamless execution of examination procedures.

This training initiative is part of AICTE's ongoing efforts to enhance the examination system, promoting transparency, efficiency, and fairness in the assessment process. By attending this session, Mr. Arora is now better prepared to oversee the smooth operation of exams in line with the revised policies, ensuring that the reforms are fully implemented across all examination centres.



MST Examination Paper based on AICTE Exam Reform policy. Sep 2023

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Q. No.	Questions	Marks	CO	BL	PO
PART -A (ATTEMPT ANY TWO QUESTIONS)					
1.	Explain the term static error, static correction, relative error and percent relative error.	4	CO 3.2.1.1	L2	CO1
2.	Galvanometer used as a Voltmeter and Ammeter.	4	CO 3.2.1.1	L3	CO1
3.	Define accuracy, precision & hysteresis (B-H Curve)	4	CO 3.2.1.1	L1	CO1
PART -B (ATTEMPT ANY TWO QUESTIONS)					
4.	Draw the Block Diagram of CRO. Explain TBG circuit.	4	CO 3.2.2.2	L2	CO2
5.	Distinguish between Dual trace (alternate and chopping mode) and dual beam (splitting and two electron gun) CRO.	4	CO 3.2.2.2	L4	CO4
6.	Compare Maxwell's inductance capacitance bridge for low Q coil values ($1 < Q < 10$) and higher Q value $Q > 10$.	4	CO 3.2.2.2	L4	CO5
PART -C (ATTEMPT ANY ONE QUESTION)					
7.	Make use of LVDT. Draw its circuits for $[E_{o1} = E_{s1} - E_{s2}, E_{s1} = E_{s2}, E_{s1} > E_{s2}, E_{s1} < E_{s2}]$. Sketch graph between displacement and output voltage.	4	CO 3.2.3.3	L3	CO3
8.	Gives Example of Primary and Secondary transducers. Explain anyone.	4	CO 3.2.3.3	L2	CO2

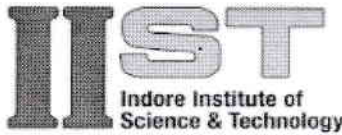


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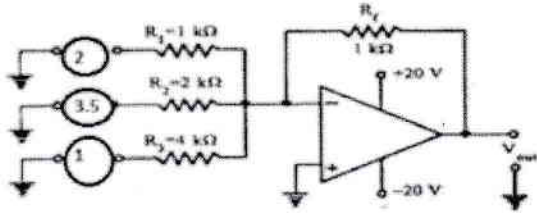
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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING MID SEMESTER TEST-II JUNE 2024

SUBJECT NAME: ANALOG CIRCUIT
SEMESTER: IV SEM / II YEAR
MAX MARKS: 20

SUBJECT CODE: EC-405
ENROLLMENT NO.:

Q. No.	Questions	Marks	CO	BL	PO
PART -A (ATTEMPT ANY TWO QUESTIONS)					
1.	Explain the op-amp as an inverting and non-inverting amplifier. also Derive the gain of the amplifiers.	4	CO 2.4.5.3	L4	PO1,2, 3, 7, 12
2.	Explain the working of the Monostable multivibrator using IC- 555 timer.	4	CO 2.4.5.4	L2	PO1,2, 3, 7, 12
3.	Explain the working of the RC phase shift oscillator with a circuit diagram.	4	CO 2.4.5.3	L4	PO1,2,3, 7, 12
PART -B (ATTEMPT ANY TWO QUESTIONS)					
4.	Draw the first-order low-pass filter and obtain its gain and frequency response.	4	CO 2.4.4.3	L1	PO1,2, 3, 7, 12
5.	Calculate the output voltage of the given circuit. 	4	CO 2.4.4.4	L2	PO1,2, 3, 7, 12
6.	Write a short note on (anyone) a) Schmitt Trigger b) Log and Antilog Amplifier	4	CO 2.4.4.4	L4	PO1,2, 3, 7, 12
PART -C (ATTEMPT ANY ONE QUESTION)					
7.	Explain the working principle of Hartley's oscillator with its circuit diagram.	4	CO 2.4.4.4	L2	PO1,2, 3, 7, 12
8.	Define the following terms. a) Input offset voltage. b) Input Bias Current c) CMRR d) Slew Rate	4	CO 2.4.4.3	L4	PO1,2, 3, 7, 12

-----End of Question Paper-----

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6. Frequency & Variety for Continuous Evaluation

A. Mechanism of Internal & External Assessment

Frequency of Assessment:

The IQAC will finalize the frequency of assessments in alignment with the university's guidelines and ensure that this information is clearly communicated through the MST notice. Faculty members will be informed about the assessment schedule before the semester begins to ensure proper planning and execution.

As a minimum, the following assessments will be conducted during the semester:

- Two MST exams
- Two quizzes
- Two assignments

In addition to these mandatory assessments, faculty members are encouraged to utilize a variety of innovative and continuous evaluation methods. These may include, but are not limited to, open book tests, multiple-choice questions (MCQs), group discussions, interactive sessions, presentations, and other creative approaches. The aim is to foster active student participation and enhance learning through diverse methods that cater to different learning styles. Faculty are given the flexibility to implement these evaluation methods to ensure a holistic assessment process throughout the semester.



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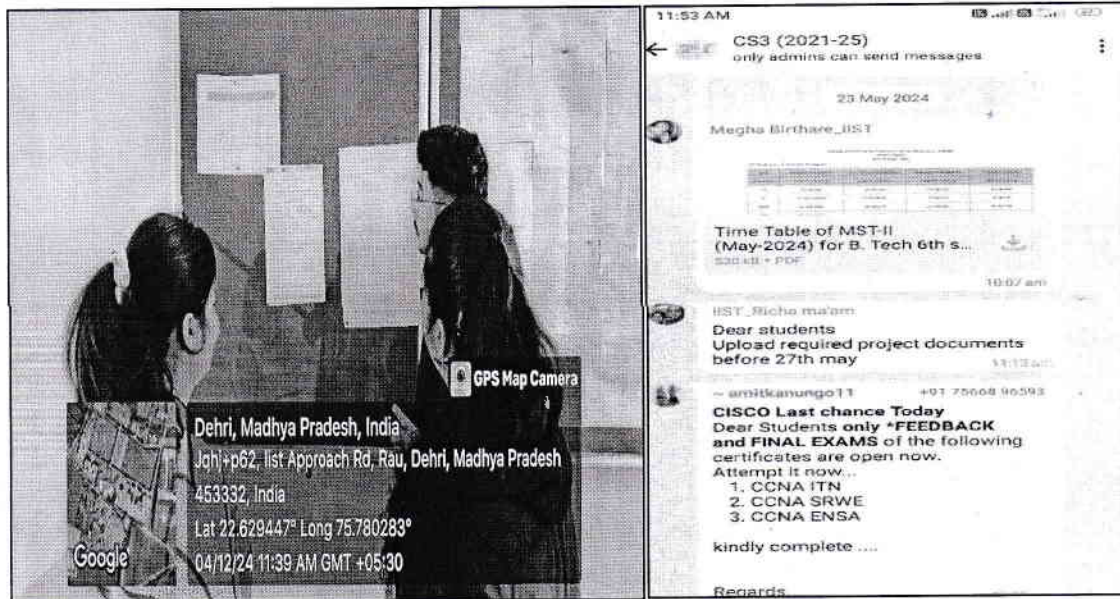


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B. Academic Calendar (Highlight the Internal Assessment communicate to students)



C. MST Notice (Highlight Evaluation System Communicate to the students)



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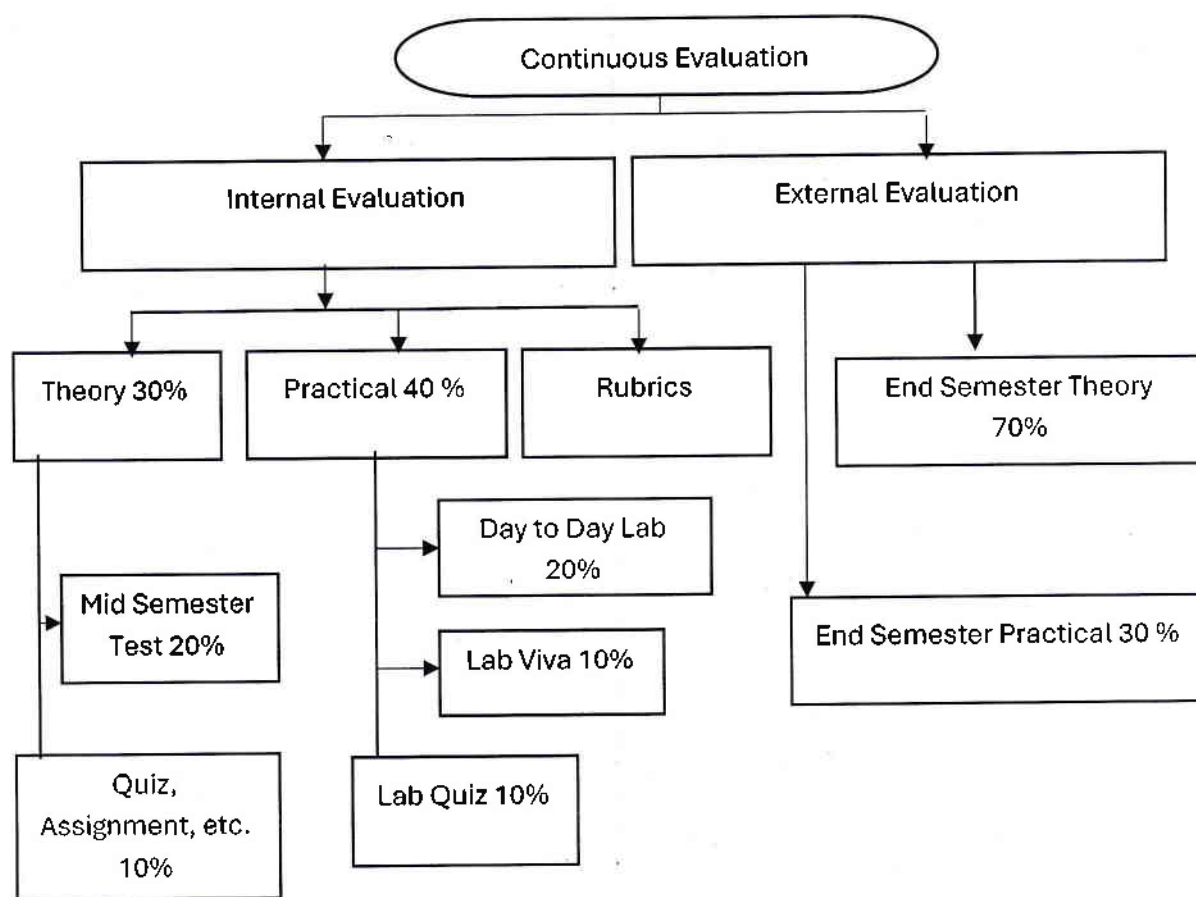
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D. Rubrics for PO's Assessment and Attainment

Flow Chart for Continuous Evaluation



Note: - Based on Affiliating university ordinance refer page number: 8

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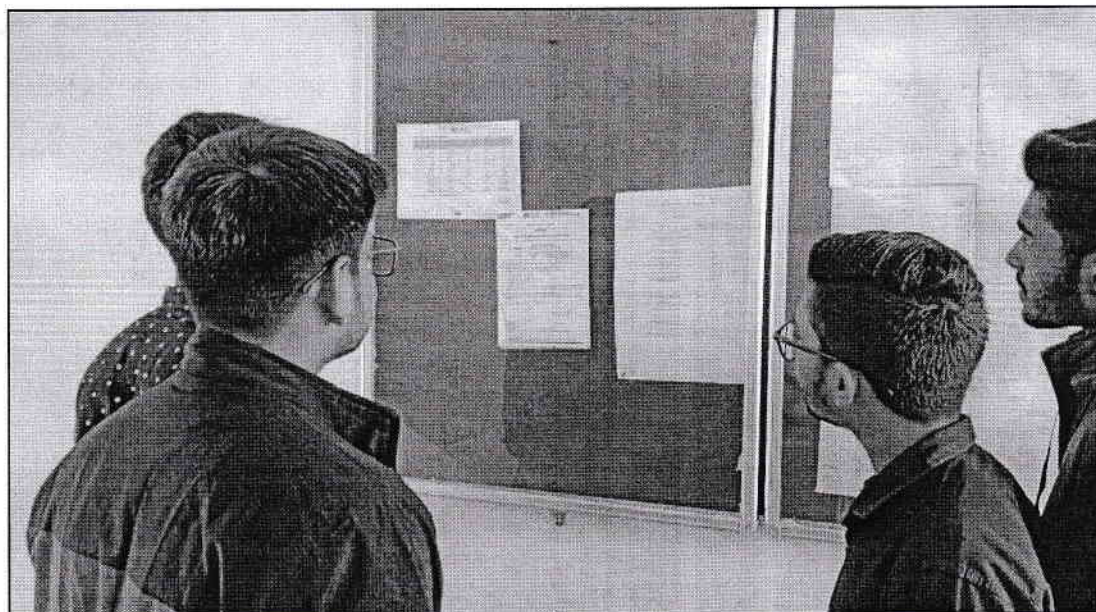
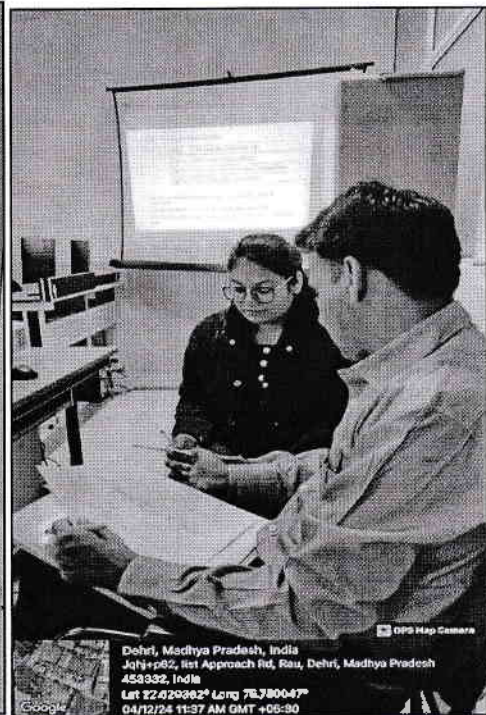
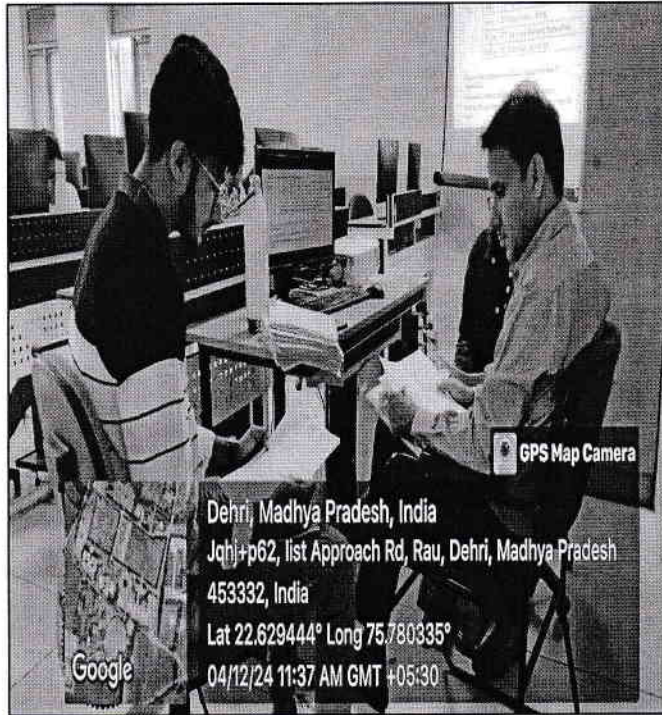
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E. Proof of Mechanism for internal assessment is transparent by showing MST copies to the students




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F. Internal Evaluation Theory

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

S.No.	Session	Particular	Branch/Sem	Sub.Code	No.of A/Book
1.	Jan-June 2024	MST-II	CS/IV	CS-405	3
2.	Jan-June 2024	MST-II	IT/IV	IT-402	3
3.	Jan-June 2024	MST-II	AIML/VI	AL-602	2
4.	Jan-June 2024	MST-II	EC/VI	EC-604	3
5.	Jan-June 2024	MST-I	CE/IV	CE-404	2
6.	Jan-June 2024	MST-I	AIML/VI	AL-604	3
7.	Jan-June 2024	MST-I	CM/VIII	CM-802	3
8.	Jan-June 2024	MST-I	EC/IV	EC-402	3
9.	July-Dec 2023	MST-II	CS/III	CS-302	3
10.	July-Dec 2023	MST-II	CS/III	CS-303	3
11.	July-Dec 2023	MST-II	IT/III	ES-301	3
12.	July-Dec 2023	MST-I	CS/VII	CS-701	3
13.	July-Dec 2023	MST-I	CS/V	CS-502	3
14.	July-Dec 2023	MST-I	CE/V	CE-503	3
15.	July-Dec 2023	MST-I	CE/VII	CE-701	3



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		seen						
INSTITUTE: IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE: 0816						
Course: B.Tech		DATE: 03/03/24						
EXAM: MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION: (Odd/Even) 20.24-20.24						
NAME: Vaishnavi Bhandari		ENROLLMENT 0816CS221216						
BRANCH: CSE	YEAR: II	SEMESTER: IV						
SUB. NAME: Operating Systems		SECTION: CS-3						
		SUBJECT CODE: CS-405						
Q.NO.	1	2	3	4	5	6	7	8
	A B	A B	A B	A B	A B	A B	A B	A B
MARKS								
MAX. MARKS: 20	MARKS OBTAINED: 18		IN WORDS: Eighteen					
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

NOTE : Start Writing From Here

PART-B

Answ.	Allocation				Max				Need				Available			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
P ₀	0	0	1	2	0	0	1	2	0	0	0	0	1	5	2	0
P ₁	1	0	0	0	1	7	5	0	0	7	5	0				
P ₂	1	3	5	4	2	3	5	6	1	0	0	2				
P ₃	0	6	3	2	0	6	5	2	0	0	2	0				
P ₄	0	0	1	4	0	6	5	6	0	6	4	2				

(a) The content of the need matrix is :-

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IMR <input type="checkbox"/>		INST. CODE : 0818	Course : B.Tech	DATE : 09/07/24								
EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION: (Odd/Even) 20.23.20.24								
NAME : Vaishnavi Zope		ENROLLMENT 0818CS221217										
BRANCH : CSE	YEAR : 2 nd	SEMESTER : 4 th	SECTION : CS3									
SUB. NAME : OS		SUBJECT CODE :										
Q.NO.	1	2	3	4	5	6	7	8				
	A	B	A	B	A	B	A	B	A	B	A	B
MARKS												
MAX. MARKS : 20		MARKS OBTAINED : 17		IN WORDS : Seventeen								
NAME & SIGN. INVIGILATOR / INTERNAL						NAME & SIGN. VALUER/EXTERNAL						

NOTE : Start Writing From Here

PART - B

Ques 4

Q.No	Allocation				MAX				NEED				Available			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
P0	0	0	1	2	0	0	1	2	0	0	0	0	1	5	2	0
P1	1	0	0	0	1	7	5	0	0	7	5	0				
P2	1	3	5	4	2	3	5	6	1	0	0	2				
P3	0	6	3	2	0	6	5	2	0	0	2	0				
P4	0	0	1	4	0	6	5	6	0	6	4	2				

ii) Safe State

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/> INST. CODE : 088 Course : B.Tech DATE : 2/03/24																	
EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/> SESSION:(Odd/Even) 20...2024																	
NAME : Shreyas Karawat ENROLLMENT 0818CS221192																	
BRANCH : CSE YEAR: 2024 SEMESTER: IV th SECTION CS-3																	
SUB. NAME : Operating System SUBJECT CODE : BCS-405																	
Q.NO.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>A</td><td>B</td><td>A</td><td>B</td><td>A</td><td>B</td><td>A</td><td>B</td> </tr> </table>	1	2	3	4	5	6	7	8	A	B	A	B	A	B	A	B
1	2	3	4	5	6	7	8										
A	B	A	B	A	B	A	B										
MARKS																	
MAX. MARKS : 50	MARKS OBTAINED : 14 IN WORDS : fourteen																
NAME & SIGN. INVIGILATOR / INTERNAL	NAME & SIGN. VALUER/EXTERNAL																

NOTE : Start Writing From Here

Answer of ques no. 4

(Given)

	Allocation	Max	Available	Need
	A B C D	A B C D	A B C D	A B C D
			1520	
P ₀	0 0 1 2	0 0 1 2		0 0 0 0
P ₁	1 0 0 0	1 7 5 0		0 7 5 0
P ₂	1 3 5 4	2 3 5 6		1 0 0 2
P ₃	0 6 3 2	0 6 5 2		0 0 2 0

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INSTITUTE : IIST IIP IIMR INST. CODE : 0818 Course : 8Tech DATE : 01/07

EXAM : MST-I II III THEORY PRACTICAL SESSION: (Odd/Even) 20.23.20.21

NAME : Ramy kushwah ENROLLMENT : 0818 IT221054

BRANCH : Information Technology YEAR : IInd SEMESTER : IV SECTION : A-4

SUB. NAME : Computer Architecture SUBJECT CODE : IT-402

Q.NO.	1		2		3		4		5		6		7		8	
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MARKS		4					4		4		4					2

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NAME & SIGN. INVIGILATOR / INTERNAL : NAME & SIGN. VALUER/EXTERNAL :

NOTE : Start Writing From Here

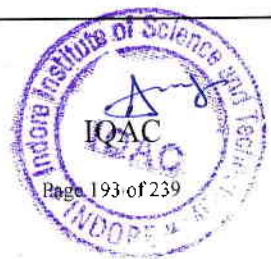
Answer - 1.

1) Programmed I/O

In programmed I/O, they were fetching data from I/O from the processor and they many time rest and wait for next word. In programmed Input / output they were need to connect data from processor.

In programmed I/O, the input / output device send request by the data register and they send to process and processor count data and send positive Acknowledgment thro the bus and in which many time

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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>				SESSION : (Odd/Even) 20.23...20.24...				
NAME : Vikas Patel				ENROLLMENT 0818IT221071				
BRANCH : IT		YEAR : 2 nd		SEMESTER : 4 th		SECTION :		
SUB. NAME : Computer Architecture				SUBJECT CODE : IT-402				
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS								
	3	4		3		3		3
MAX. MARKS : 20		MARKS OBTAINED : 16		IN WORDS :				
NAME & SIGN. INVIGILATOR / INTERNAL <i>[Signature]</i>				NAME & SIGN. VALUER/EXTERNAL <i>[Signature]</i>				

..... NOTE : Start Writing From Here

Q1) Explain programmed I/O & interrupt I/O:

As) Programmed I/O ⇒ Programmed input/output is the serialise structure of handling the input, output, main memory and peripheral devices.

Within a computer architecture there are standardise methods of handling input/output operations, how they are operated and placed in sequence for operation.

In programmed I/O CO the control unit handles the input, output devices and

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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION : (Odd/Even) 20.22...2024												
NAME : Rishabh Jain			ENROLLMENT 0818IT221056													
BRANCH : IT		YEAR : II	SEMESTER : IV	SECTION : A4												
SUB. NAME : CA			SUBJECT CODE : IT402													
Q.NO.	1		2		3		4		5		6		7		8	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
MARKS	3		3		3		3		3		3		3		3	
MAX. MARKS : 20		MARKS OBTAINED : 15				IN WORDS :										
NAME & SIGN. INVIGILATOR / INTERNAL								NAME & SIGN. VALUER/EXTERNAL								

NOTE : Start Writing From Here

Q3. → Main Memory

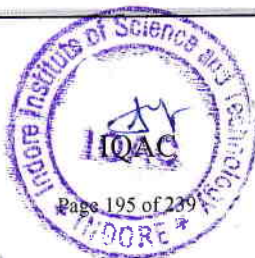
Main memory is the memory storage area where we can store the data permanently. The CPU is connected to the main memory by system buses.

Main memory is used for different types of operations such as

- data searching
- data insertion
- data extraction

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Asharma

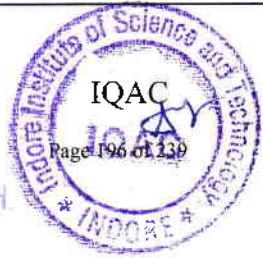
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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input checked="" type="checkbox"/>		SESSION : (Odd/Even) 20.24.20.25										
NAME : ANURAM SHARMA		ENROLLMENT 0818 01211011												
BRANCH : AITL	YEAR : 3 rd	SEMESTER : 6 th	SECTION :											
SUB. NAME : Computer network		SUBJECT CODE : AL-602												
Q.NO.	1	2	3	4	5	6	7	8						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
MARKS														
MAX. MARKS : 20		MARKS OBTAINED : 15		IN WORDS : Fifteen										
NAME & SIGN. INVIGILATOR / INTERNAL							NAME & SIGN. VALUER/EXTERNAL							
Pooja							[Signature]							

NOTE : Start Writing From Here

2 PART - C
Ans. 075

A "path-vector routing protocol" is a network routing protocol which maintains the path information that gets updated dynamically, updates that have elapsed through the network and returned to the same node as are easily detected and discarded. This algo is sometimes used in "Bellman-forward routing algo" to avoid "count to infinity" problems.

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EXAM: MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION: (Odd/Even) 20.....20.....												
NAME : Diya Singhal				ENROLLMENT 0818CL211022												
BRANCH : AEM		YEAR: 3 rd		SEMESTER: 6 th		SECTION : 3 ₂										
SUB. NAME : Computer Network				SUBJECT CODE : AL-602												
Q.NO.	1		2		3		4		5		6		7		8	
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MARKS																
MAX. MARKS : 20				MARKS OBTAINED : 4				IN WORDS : Four								
NAME & SIGN. INVIGILATOR / INTERNAL Pooja								NAME & SIGN. VALUER / EXTERNAL 12/07/24								
NOTE : Start Writing From Here																

"Part-A"

Ans2 The Reverse Address Resolution Protocol (RARP) is a networking protocol that is used to map a physical layer i.e. MAC layer address to an Internet Protocol (IP) address. It is reverse of the more commonly used address Resolution Protocol (ARP) (ARP), which maps an IP address to MAC address.

RARP (Reverse Address Resolution Protocol) is abbreviation of a protocol based on

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IMR <input type="checkbox"/>		INST. CODE : 0818		Course : B.Tech		DATE : 31/5/24										
EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 2021...2025												
NAME : Manisha				ENROLLMENT 0818EC211036												
BRANCH : EC		YEAR : 3 rd		SEMESTER : 6 th		SECTION : ~										
SUB. NAME : MES				SUBJECT CODE : EC-604												
Q.NO.	1		2		3		4		5		6		7		8	
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MARKS	4		4						2		3		4			
MAX. MARKS :		MARKS OBTAINED : 18				IN WORDS : Eighteen										
NAME & SIGN. INVIGILATOR / INTERNAL V. 31/5/24								NAME & SIGN. VALUER/EXTERNAL 								

NOTE : Start Writing From Here

Answers

Part - A (9)

Q.2 DSP Processor

DSP : digital signal Processing
 DSP (digital signal Processing) is used to filter the digital signals.
 It has wide range of application in speech recognizing, sonar and Radar etc.

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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION:(Odd/Even) 20.25.20.24...					
NAME : BHUMI CHOUHAN		ENROLLMENT 0818EC211020						
BRANCH : EC	YEAR : III	SEMESTER : VI	SECTION : EC					
SUB. NAME : MES		SUBJECT CODE : EC-604						
Q.NO.	1	2	3	4	5	6	7	8
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MAX. MARKS :		MARKS OBTAINED : 18		IN WORDS : Eighteen				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

NOTE : Start Writing From Here

PART - A

Q.1 Architecture of 8096 -

ANS 8096 is a 16-bit microcontroller specially designed for embedded system application. Its all features are similar with 8051 except that it has additional features of Analog to digital converter & high speed input, high speed output operations -

The following figure shows the Architecture of 8096 -

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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>				SESSION : (Odd/Even) 20.23.20.24				
NAME : ANKIT MALVIYA				ENROLLMENT : 0818EC211009				
BRANCH : EC		YEAR : III rd		SEMESTER : 01 th		SECTION :		
SUB. NAME : MES				SUBJECT CODE : EC-604				
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS		2	4		2	4		4
MAX. MARKS :		MARKS OBTAINED :: 16		IN WORDS : sixteen				
NAME & SIGN. INVIGILATOR / INTERNAL <i>[Signature]</i> 31/05				NAME & SIGN. VALUER/EXTERNAL <i>[Signature]</i>				

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PART - C
QUESTION : 8
ANSWER : 8

Pwm :
It is stand for pulse width modulation.

- * The width of pulses is directly proportional to the message signal.
- * The carrier angle of pulses of width are changed with the respect of message signal.

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0818		Course : B.Tech		DATE : 13-4-24		
EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION: (Odd/Even) 20..23.20.24				
NAME : <i>KHUSHI CHOURASIYA</i>				ENROLLMENT <i>0818CE221004</i>				
BRANCH : <i>CIVIL</i>		YEAR: <i>2nd</i>		SEMESTER: <i>4th</i>		SECTION :		
SUB. NAME : <i>TRANSPORTATION ENGINEERING</i>				SUBJECT CODE : <i>CE 404</i>				
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS								
MAX. MARKS :		MARKS OBTAINED : <i>16</i>		IN WORDS : <i>Sixteen</i>				
NAME & SIGN. INVIGILATOR / INTERNAL <i>[Signature]</i>				NAME & SIGN. VALUER/EXTERNAL <i>[Signature]</i>				

NOTE : Start Writing From Here

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PART - C

Q. No 7 Answer

Given,

Sleeper density $\Rightarrow n+6$ ✓

Length of Railway Track $\Rightarrow 2000$ m ✓

Length of one Rail $\Rightarrow 13$

~~No. of~~ \Rightarrow $\frac{\text{Length of Railway Track}}{\text{Length of one Rail}}$

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0819		Course : BTech		DATE : 13/09/24		
EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>				SESSION : (Odd/Even) 20...23.2024...				
NAME : CHAVANI AHIRE				ENROLLMENT 0818CE221003				
BRANCH : CIVIL		YEAR : 2 nd		SEMESTER : 4 th		SECTION :		
SUB. NAME : Transportation Engg - I				SUBJECT CODE : CE - 404				
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS :		MARKS OBTAINED : 12		IN WORDS : Twelve				
NAME & SIGN. INVIGILATOR / INTERNAL <i>Ahire</i>				NAME & SIGN. VALUER/EXTERNAL <i>Prage</i>				

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PART - C

Question. NO - 07

given that,

sleeper density - $n+6$

railway track length - 2000 m

1 rail length - 13

Number of -sl = $\frac{\text{length of railway track}}{\text{one rail}}$

$\frac{2000}{13}$

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INSTITUTE : IIST IIP IIMR INST. CODE : 0818 Course : B.Tech DATE : 06/03/2024

EXAM : MST-I II III THEORY PRACTICAL SESSION : (Odd/Even) 2024...2025

NAME : Bhoomika Sharma ENROLLMENT 0818CL211017

BRANCH : AIML YEAR: 3rd SEMESTER: 6th SECTION : B2

SUB. NAME : Intelligent Systems for Robotics SUBJECT CODE : AL604(C)

Q.NO.	1		2		3		4		5		6		7		8	
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MARKS			4		4				4		3				2	2

MAX. MARKS : 80 MARKS OBTAINED : 19 IN WORDS :

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NOTE : Start Writing From Here

Part-A

Question-1 Discuss about Asimov's laws of Robotics?

Question-1 Asimov's Law of Robotics have basically or mainly three laws!
They are as follows:-

Law 1: A Robot may not injure a human being, or through inaction, allow a human being to come to harm.

Law 2: A Robot must obey the orders given by human

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20...23...20...24...												
NAME : Deepak Singh		ENROLLMENT 0818CL211019														
BRANCH : AIIM		YEAR : III	SEMESTER : VI	SECTION : B2												
SUB. NAME : ISR		SUBJECT CODE : AI-G04														
Q.NO.	1		2		3		4		5		6		7		8	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
MARKS			4	4			3	4							4	
MAX. MARKS : 20		MARKS OBTAINED : 19		IN WORDS :												
NAME & SIGN. INVIGILATOR / INTERNAL								NAME & SIGN. VALUER/EXTERNAL								

..... NOTE : Start Writing From Here

Question 01

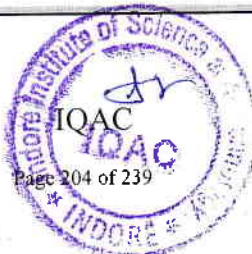
Discuss about Asimov's law of robotics

Ans Asimov's law is for robots to perform functionalities smoothly and according to the desired of user

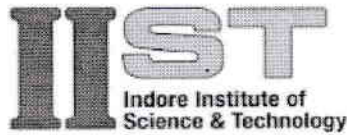
There are three main laws of Asimov's

- 1) Robots must not attack the human being, and work according to task given.
- 2) Robots must obey the instructions of human being and do not perform other than instructions

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION: (Odd/Even) 20.....20.24													
NAME : Brijesh Rajbhar		ENROLLMENT 081806211018														
BRANCH : AIML	YEAR : III	SEMESTER : VI	SECTION : B-2													
SUB. NAME : I.S.R.		SUBJECT CODE : 604 (C)														
Q.NO.	1		2		3		4		5		6		7		8	
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MARKS	2		20						4		4		4			
MAX. MARKS : 20		MARKS OBTAINED : 18		IN WORDS :												
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Q1

Robots can be classified based on various criteria including their application, design and control method

1. Based on Application
 - a. Industrial robots
 - b. Service robot
 - c. Military robot
 - d. Exploration robot

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION: (Odd/Even) 20, 23, 20, 24					
NAME : Karan Prajapat		ENROLLMENT 0818 CM 201011						
BRANCH : Chemical	YEAR: 4 th	SEMESTER: 8 th	SECTION: A					
SUB. NAME : Process Safety & Hazardous Manag ^t		SUBJECT CODE : (CM-802 B)						
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS : 20	MARKS OBTAINED : 19		IN WORDS : Nineteen					
NAME & SIGN. INVIGILATOR / INTERNAL Devendra Singh				NAME & SIGN. VALUER/EXTERNAL JOS				

NOTE : Start Writing From Here

PART-A

Answer No. 01

→ The features of Safety program -

- ① Safety is very important for chemical plants & industries.
- ② Various of hazardous occurs due to errors as well as wrong communication and man-made things.

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input checked="" type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20..21..20..21..										
NAME : <u>falsingh Chauhan</u>		ENROLLMENT <u>0818cm201009</u>												
BRANCH : <u>chemical</u>		YEAR :	SEMESTER :	SECTION :										
SUB. NAME : <u>Process safety and hazard management</u>		SUBJECT CODE : <u>CM-802(B)</u>												
Q.NO.	1	2	3	4	5	6	7	8						
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MARKS														
MAX. MARKS : <u>20</u>		MARKS OBTAINED : <u>19</u>		IN WORDS :										
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<u>Deventra Singh</u>							<u>Joshi</u>							

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(PART-A)

Question. 01 (Answer)

A Successful Safety Program in Chemical Engineering required a comprehensive approach that address various aspects of safety management while specific requirements may vary depending on the industry, regulations and company policies. The following are some key ingredients commonly found in successfully safety program.

1) Factors of any Safety Program

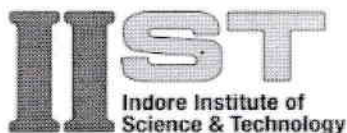
1) management commitment and leadership.
Top management commitment to safety program. Strongly safety culture.

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20.....20.....						
NAME : Vaishali Raghuramschi		ENROLLMENT 0818CM201026								
BRANCH : Chemical	YEAR: 4 th	SEMESTER: 8 th	SECTION :							
SUB. NAME : Process safety and hazardous management		SUBJECT CODE : CM 802 (B)								
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MARKS										
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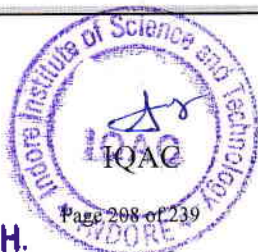
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Part C.
Que. 8. (Ans)

Fire is a chemical reaction in which oxygen in presence of fuel and spark gives flash and light. This flash and light is called fire. Flash along with light produces heat which is responsible for many hazards safety hazards and fire.

Fire in industries is a hazardous and dangerous event happened due to some of the safety disturbances and imprevientive acts.

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20.....20.....				
NAME : LAVEENA RHOTC				ENROLLMENT 0818CM221005 (EC)				
BRANCH : ECE		YEAR: 2 nd		SEMESTER: 4 th		SECTION :		
SUB. NAME : Signal and System				SUBJECT CODE : EC-402				
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				
NOTE : Start Writing From Here								
PART - A								
Ques-1	What is signal? Explain Type of signal?							
	Signals are the waveform carrying some and message or information. In other words signals are function of variables having some kind of data or information.							
	There are two classification of signals							
	(i) Periodic and non-periodic signal							
	(ii) Even and odd signal.							

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Shivani

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/>	PRACTICAL <input type="checkbox"/>	SESSION:(Odd/Even) 20..2..20..2..20..2..20..2..20..2..				
NAME : Shivani Aniswar		ENROLLMENT 0818EC221032						
BRANCH : EC		YEAR: 2 nd year	SEMESTER: IV	SECTION : A				
SUB. NAME : Signal System.		SUBJECT CODE : EC-402						
Q.NO.	1	2	3	4	5	6	7	8
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MAX. MARKS :		MARKS OBTAINED :		IN WORDS : 16/20				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

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Question No - 1

Ans :- Signal System are one from to another form of in signal are in with the signal are in methode of signal in in signal are in not allowed in signal in signal of the signal from in the methode of the signal are in mathematics of without in the system.

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NAME : Akshat Awasthi				ENROLLMENT 0818EC221005				
BRANCH : EC		YEAR: 2 nd		SEMESTER: 4 th		SECTION :		
SUB. NAME : Signal System				SUBJECT CODE : EC-402				
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
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NOTE : Start Writing From Here

PART-A

Q2

[Sol]

(1) $y(n) = \cos x(n)$

$y(-n) = \cos x(-n)$

$y_1(n) = \cos x_1(n)$

$y_2(n) = \cos x_2(n)$

$y_1(n) + y_2(n) = \cos x_1(n) + \cos x_2(n) \quad \text{--- (1)}$

$\therefore y(n) = y_1(n) + y_2(n) \quad \text{--- (2)}$

$y(n) = \cos x(n) \quad \text{--- (3)}$

from (2) & (3)

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0818	Course : B.Tech	DATE : 31/10/23				
EXAM : MST-I <input type="checkbox"/> II <input type="checkbox"/> III <input checked="" type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION : (Odd/Even) 20..23..20..24..					
NAME : DEBOTTAMA BARDHAN		ENROLLMENT 0818CS221066						
BRANCH : CSE	YEAR : 2 nd	SEMESTER : 3 rd	SECTION : A1					
SUB. NAME : DISCRETE STRUCTURE		SUBJECT CODE : CS302						
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS :	MARKS OBTAINED :		IN WORDS : 14/20					
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

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PART A

Answer 1 :-

1.) Explain Monoid and Group with the help of an example.

MONOID :-

For elements to be monoid, they need to be :-

- i) A groupoid.
- ii) A semi-groupoid.

i) Groupoid :- To be a groupoid, the Algebraic System $A, (\oplus, (A, \otimes))$

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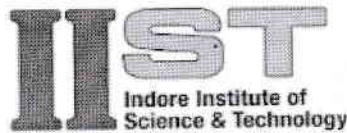
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Score & Subject
Anamika

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INSTITUTE : IIST IIP IIMR INST. CODE : Course : B-Tech DATE : 31/10/23

EXAM : MST-I II III THEORY PRACTICAL SESSION: (Odd/Even) 20: 23, 20: 24

NAME : Anamika Singh ENROLLMENT 091800201026

BRANCH : CSE YEAR: IInd SEMESTER: IInd SECTION : A1

SUB. NAME : Discrete Mathematics SUBJECT CODE :

Q.NO.	1		2		3		4		5		6		7		8		
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MARKS																	

MAX. MARKS : MARKS OBTAINED : IN WORDS : 10/20

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Ques-1) Monoid

Monoids are group of sets which follow the property of

1) Closed

ii) Associative

iii) Identity

$$a \odot 1 = a \text{ where } 1 \in N$$

we perform operations in the given set of numbers

Ex:- $G(N, \odot)$ (w, \odot) \Rightarrow {0, 1, 2, 3, 4, ...}

i) Monoid.

$$1+2=3$$

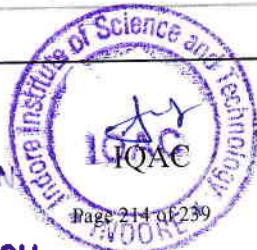
$\forall 1 \in N$ and $3 \in N$, hence closed

$1+2 \in w$ and $3 \in w$, hence closed

ii) Associative

$$1+(2+3)$$

$$\Rightarrow 1+5 = 6 \in w$$



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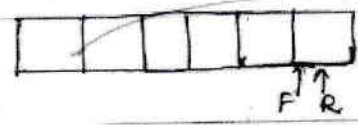
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NAME : Amit Kumar		ENROLLMENT 0818CS221021						
BRANCH : CSE	YEAR : II	SEMESTER : III	SECTION : CS-1					
SUB. NAME : Data Structure		SUBJECT CODE : CS-303						
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MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
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-(PART-A)-

(Q2) Ans: Queue is Queue Data structure is based on the FIFO (first in first out):

When the memory is inserted from the rear and deleted from front end, then we cannot refill the element. It is the wastage of memory. So, Circular Queue introduced.



*Circular Queue is The closed data structure where we insert data from Rear and delete from the front end.



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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION : (Odd/Even) 20.23.20.24...				
NAME : Chanchal Soni		ENROLLMENT 0818CS221063						
BRANCH : CSE		YEAR : 2023	SEMESTER : II nd	SECTION : CS-1				
SUB. NAME : Data Structure		SUBJECT CODE :						
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MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				
				14/20				

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Part - A

(Q1) 2, 1, 4, 5, 9, 3, 6, 7 is a given values we have to insert in tree, first we take the first value

then 1 which is smaller than 2 Hence insert in left side

```

graph TD
    2((2)) --- 1((1))
    2 --- 9((9))
  
```

then 4 is greater than 2 Hence insert in right side.

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EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION:(Odd/Even) 20.23.20.24									
NAME : Anamika Singh		ENROLLMENT 0818CS221026										
BRANCH : CSE	YEAR: 1 st	SEMESTER: III rd	SECTION : A-J									
SUB. NAME : Data Structures		SUBJECT CODE :										
Q.NO.	1	2	3	4	5	6	7	8				
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MARKS												
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Part A

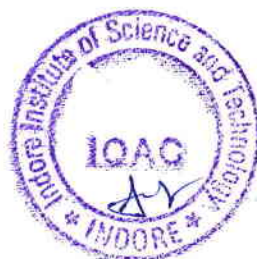
Ans-1) AVL Tree

It is a special kind of Binary Search Tree

```

    graph TD
      E((E)) --- L((Less than K))
      E --- R((greater than K))
  
```

- It is also known as self balancing Binary Search Tree
- Balance factor should be -1 and 0 and 1 .
- Balance factor = height of left subtree - height of right subtree



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NAME : <u>Pooja Yadav</u>		ENROLLMENT: <u>08181T221048</u>														
BRANCH :	YEAR: <u>II</u>	SEMESTER: <u>III</u>	SECTION: <u>A-4</u>													
SUB. NAME : <u>EEES</u>		SUBJECT CODE : <u>ES301</u>														
Q.NO.	1		2		3		4		5		6		7		8	
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MARKS																
MAX. MARKS : <u>20</u>		MARKS OBTAINED : <u>19</u>		IN WORDS : <u>Nineteen only</u>												
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Part - A

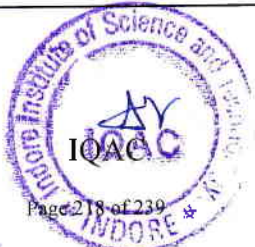
Ans of Qno. 2.

Threats to Biodiversity

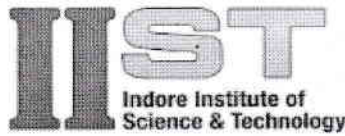
Biodiversity means the variety of organisms in the world which varies from one another on the several factors from genes, species to ecosystem.

Threats to biodiversity refers to

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Seen
Praveen



62033

INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0818	Course : B.Tech	DATE : 30/10/23				
EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION: (Odd/Even) 20..23...20..25...				
NAME : Prakash Kanungo		ENROLLMENT 081815221049						
BRANCH : IT	YEAR: 2	SEMESTER: III	SECTION : IT					
SUB. NAME : EEE		SUBJECT CODE : ES 304						
Q.NO.	1	2	3	4	5	6	7	8
	A B	A B	A B	A B	A B	A B	A B	A B
MARKS	3	3			3	4		4
MAX. MARKS : 30		MARKS OBTAINED : 17		IN WORDS : seventeen only				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

30/10/23

NOTE : Start Writing From Here

Part-A

Q.1

Ans India is considered as a mega diversity nation due to it contains the variety and variations of diversities in it.

In India, it is said that India is the only country in the world which has different types of diversities and climatic changes in different regions of the country and due to this property, India has contains the variety of species of plants, animal, bacteria, fungi, protozoa and mammals in different regions of the country.

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62105

INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0818	Course : BTech	DATE : 30/10/23												
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NAME : Prashant Mishra		ENROLLMENT 0818J7231046														
BRANCH : IT	YEAR : II	SEMESTER : III	SECTION : A-4													
SUB. NAME : EEES		SUBJECT CODE : E3303														
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MARKS																
MAX. MARKS : 20		MARKS OBTAINED : 16		IN WORDS : sixteen only												
NAME & SIGN. INVIGILATOR / INTERNAL								NAME & SIGN. VALUER/EXTERNAL								

NOTE : Start Writing From Here

PART - A

Answer - Q2

In India there are many type of diversities there are many types of species, plants etc. Different type of climates are also present in India. Climates like Summer winter and monsoon etc. In the field of diversity India plays one of the most important role in all over the world.

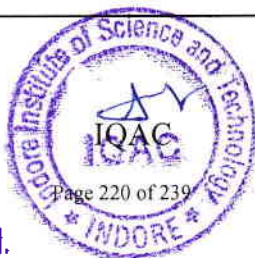
In india there

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION : (Odd/Even) 20...23...20...24...												
NAME : Deepanshu Bhatt				ENROLLMENT : 0818CS201042												
BRANCH : Computer Science (C)				YEAR :		SEMESTER : 7 th	SECTION : CS-1									
SUB. NAME : Software Architecture				SUBJECT CODE : CS-701												
Q.NO.	1		2		3		4		5		6		7		8	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
MARKS																
MAX. MARKS : 20				MARKS OBTAINED : 17				IN WORDS : Seventeen								
NAME & SIGN. INVIGILATOR / INTERNAL Yashvardha								NAME & SIGN. VALUER/EXTERNAL Amit Kumar								

NOTE : Start Writing From Here

Part - A

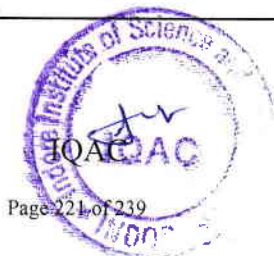
Q-2 Waterfall Model

↓

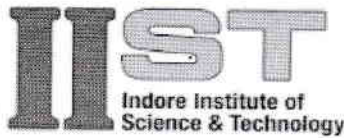
- * Waterfall model is one of the earliest of classical software development model that follow a linear & one directional flow for development.
- * It define a step-by-step procedure that one should follow to build a software from scratch in a efficient manner in terms of cost & time without compromising over software quality, performance etc.

• In software development one have to follow a procedure to build a it of water fall modd provide all necessary steps.

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Saun
Ananya Chandel
54326

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input checked="" type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20... <u>23</u> ... <u>24</u>				
NAME : Ananya Chandel		ENROLLMENT 081815201016						
BRANCH : CSE		YEAR : <u>IVth</u>	SEMESTER : <u>VIIth</u>	SECTION : <u>CS-1</u>				
SUB. NAME : Software Architecture		SUBJECT CODE : <u>CS-701</u>						
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS								
MAX. MARKS : 20		MARKS OBTAINED : 17		IN WORDS : <u>Seventeen</u>				
NAME & SIGN. INVIGILATOR / INTERNAL <u>Cashhardia</u>				NAME & SIGN. VALUER/EXTERNAL <u>Ana Kanyga</u>				

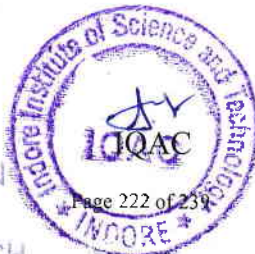
NOTE : Start Writing From Here

Part - A

Ans 27 Software development can be done using various models of software development. These models consists of various steps of development. One of such models of software development is the "Waterfall Model".

Waterfall Development Model : It is one of the most traditional and commonly used software development methodologies for software development. It is considered as the classic model of software development. This model classifies the software development in a linear sequential way. This means

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20.22..20..23..												
NAME : AYUSH AGRAWAL				ENROLLMENT 0818CS201035												
BRANCH : CSE		YEAR : IV		SEMESTER : VII		SECTION : CS-1										
SUB. NAME : Software Architecture				SUBJECT CODE : CS701												
Q.NO.	1		2		3		4		5		6		7		8	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
MARKS																
MAX. MARKS : 20		MARKS OBTAINED : 16		IN WORDS :												
NAME & SIGN. INVIGILATOR / INTERNAL Vishwanath								NAME & SIGN. VALUER/EXTERNAL Amit Kanning								

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Part - c

8. Ans The micro-service architectural style is an approach to developing a single application as a suite of small services, each running in its own process & communicating with lightweight mechanism.

- Each service is a separate codebase, which can be managed by a small development team.
- These are small, independent & loosely coupled. A single small team of developers can write & maintain a service.
- It enables the rapid, frequent & reliable delivery of large

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Seen
Aayush
- 57399

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION : (Odd/Even) 20.23...20.24...				
NAME : Aayush Singh Chauhan		ENROLLMENT 0818CS211005						
BRANCH : CSE		YEAR : III rd	SEMESTER : V th	SECTION : CS2				
SUB. NAME : Database Management - System		SUBJECT CODE : CS502						
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

19/20
JA

NOTE : Start Writing From Here

Solⁿ of Q. (5)

Given,

R1 =	Reg No.	Branch	Section	R2 =
	1	CSE	A	Name
	2	ECE	B	Reg No.
	3	CIVIL	A	Bhanu
	4	IT	B	2
	5	IT	A	Priya
				4

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION : (Odd/Even) 20.23...20.24...							
NAME : Aditya chouban		ENROLLMENT : 0818CS211010								
BRANCH : CS	YEAR : 3 rd	SEMESTER : 5 th	SECTION : CS-1							
SUB. NAME : DBMS		SUBJECT CODE : CS-502								
Q.NO.	1	2	3	4	5	6	7	8		
	A	B	A	B	A	B	A	B	A	B
MARKS										
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :						
NAME & SIGN. INVIGILATOR / INTERNAL					NAME & SIGN. VALUER/EXTERNAL					

NOTE : Start Writing From Here

17/20

Answer of Que → 5

Given

R ₁			R ₂		
RegNo	Branch	Section	Name	RegNo	
1	CSE	A	Bhanu	2	
2	ECE	B	Priya	4	
3	CIVIL	A			
4	IT	B			
5	IT	A			

(i) R₁ & R₂ :- R₁ is represent the normal joint. In these joint.

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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>	SESSION : (Odd/Even) 20.23.20.25					
NAME : Aditya Nikam		ENROLLMENT : 0818 CS211011						
BRANCH : CS		YEAR : III rd	SEMESTER : 5 th	SECTION : CS1				
SUB. NAME : DBMS		SUBJECT CODE : CS-502						
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS								
MAX. MARKS :		MARKS OBTAINED :		IN WORDS :				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				


NOTE : Start Writing From Here

Answer 5

→ Given :

R ₁			R ₂	
RegNo	Branch	Section	Name	RegNo
1	CSE	A	Bhanu	2
2	ECE	B	Priya	4
3	CIVIL	A		
4	IT	B		
5	IT	A		

(i) R₁ & R₂ = A dependent the normal joint. In these joint we pick only those elements which are co-related both the side.


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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20.23.20.24												
NAME : BHAVESH PANDHARE		ENROLLMENT 0818CF211011														
BRANCH : Civil		YEAR: IV th		SEMESTER: V		SECTION :										
SUB. NAME : Q5C		SUBJECT CODE : CF 503C														
Q.NO.	1		2		3		4		5		6		7		8	
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MARKS																
MAX. MARKS : 20		MARKS OBTAINED : 19		IN WORDS : Nineteen												
NAME & SIGN. INVIGILATOR / INTERNAL B. Pandhare								NAME & SIGN. VALUER/EXTERNAL								

NOTE : Start Writing From Here

Part - B

Q.4 \Rightarrow Ans :-

Given -

Total plinth area of building \Rightarrow 345 sqm.

to find (i), (ii), (iii), (iv), (v) & (vi)

let

The total cost of the building \Rightarrow total plinth area of building \times plinth area rates

$\Rightarrow 345 \times 6500$

$\Rightarrow 22,42,500/-$ RS per

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Akshat

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NAME : Akshat Gaud		ENROLLMENT 0818CE211006								
BRANCH : Civil	YEAR : 3 rd	SEMESTER : 5 th	SECTION :							
SUB. NAME : QSC		SUBJECT CODE : CE-503								
Q.NO.	1	2	3	4	5	6	7	8		
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MARKS										
MAX. MARKS : 20		MARKS OBTAINED : 18		IN WORDS : Eighteen						
NAME & SIGN. INVIGILATOR / INTERNAL <i>Bhadani</i>					NAME & SIGN. VALUER/EXTERNAL					

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Part - A:

Q1
Ans Estimation is the cost of the building construction in which they divide according to plan. They are the important factors in building construction and planning. They help to build a perfect building with a perfect balance. They mustly approval by the government as with a proper planning. They Estimation

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NAME : AYUSH DAWAR			ENROLLMENT 0818CE211003					
BRANCH : Civil		YEAR : 3rd	SEMESTER : V	SECTION :				
SUB. NAME : Quantity Surveying & Costing			SUBJECT CODE : CE-303					
Q.NO.	1	2	3	4	5	6	7	8
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MARKS								
MAX. MARKS : 20		MARKS OBTAINED : 18		IN WORDS : Eighteen				
NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL				

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Q.2

Given

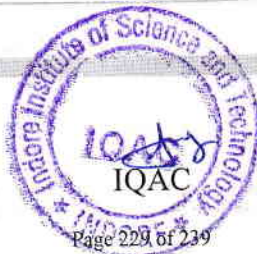
length of wall = 6m

height of wall = 3m

thickness of wall = 20cm or 0.2m

Rate of brickwork = 2700 per cum

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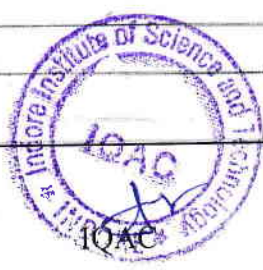


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EXAM: MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>				THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION:(Odd/Even) 20.....20.....	
NAME: <u>Ankit Ray</u>				ENROLLMENT : <u>0858 HE201001</u>			
BRANCH: <u>Civil</u>		YEAR: <u>4th</u>		SEMESTER: <u>7th</u>		SECTION :	
SUB. NAME: <u>Geotechnical Engg.</u>				SUBJECT CODE: <u>CE701</u>			
Q.NO.	1	2	3	4	5	6	7
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MARKS							
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NAME & SIGN. INVIGILATOR / INTERNAL				NAME & SIGN. VALUER/EXTERNAL			

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Ans 1) :-
 (1) Generally through phase diagram. like see the behaviour of soil.
 (2) It is divided in 3 parts
 (2.1) partially saturated soil.
 (2.2) completely dry soil.
 (2.3) fully saturated soil.



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EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/>		SESSION : (Odd/Even) 20.....20.....				
NAME : Pradyum Shirsathe				ENROLLMENT 0818CE201021				
BRANCH : civil		YEAR : 4		SEMESTER : 7		SECTION :		
SUB. NAME : Geotechnical Engineering				SUBJECT CODE : CE701				
Q.NO.	1	2	3	4	5	6	7	8
	A	B	A	B	A	B	A	B
MARKS								
MAX. MARKS : 20		MARKS OBTAINED : 16		IN WORDS : Sixteen				
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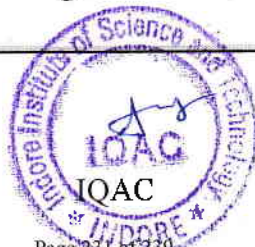
Q.1.
Ans.

In earth surface there are different types of soil with their different size, particle size is depend upon so many factor because there are different types of soil particle.

These are categories in different sub group and training

- one phase system
- two phase system
- Three phase system

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See? **AK**

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INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/>		INST. CODE : 0818	Course : B.Tech	DATE : 22/09/2023								
EXAM : MST-I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>		THEORY <input type="checkbox"/> PRACTICAL <input checked="" type="checkbox"/>		SESSION:(Odd/Even) 20..23..24..								
NAME : AKSHATRAJ SHAH		ENROLLMENT 0818CE201002										
BRANCH : CIVIL ENGG		YEAR: IV	SEMESTER: VII	SECTION :								
SUB. NAME : GEOTECHNICAL ENGG.		SUBJECT CODE : CE 701										
Q.NO.	1	2	3	4	5	6	7	8				
	A	B	A	B	A	B	A	B	A	B	A	B
MARKS												
MAX. MARKS : 20		MARKS OBTAINED : 18		IN WORDS : eighteen								
NAME & SIGN. INVIGILATOR / INTERNAL						NAME & SIGN. VALUER/EXTERNAL						

..... NOTE : Start Writing From Here

PART - B.

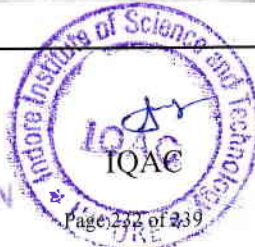
Answer of Question 6

Ans. ~~Indi. Classification System of Indian Standard Soil for Coarse - Grained Soil are :-~~

Types of Soil

- ~~Textural Classification of Soil~~
- ~~AASHTO Classification of Soil.~~
- ~~Unified Classification of Soil.~~
- ~~Indian Classification of Soil.~~

[Handwritten Signature]



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G. Internal Evaluation Practical

S. No.	Date of Experiment	Contents	Page No.	Date of Submission	Remarks
1.	9/8/23	To understand basic concept of arrays	5-9	9/10/23	[Signature]
2	22/09/23	Create class named structure print their values	5-9	9/10/23	[Signature]
3	29/09/23	Create class & take two number function	9-13	3/10/23	[Signature]
4	5/10/23	C++ program to read three int: num: 1 - total records	12-14	3/10/23	[Signature]
5	12/09/23	To implement all type of construction	15-17	14/10/23	[Signature]
6	26/09/23	To do destructor and implement it	18-19	17/10/23	[Signature]
7	3/10/23	To implement single, multiple and virtual inheritance	20-24	14/10/23	[Signature]
8	10/10/23	To implement friend class concept in function and operator overloading	25-29	12/11/23	[Signature]



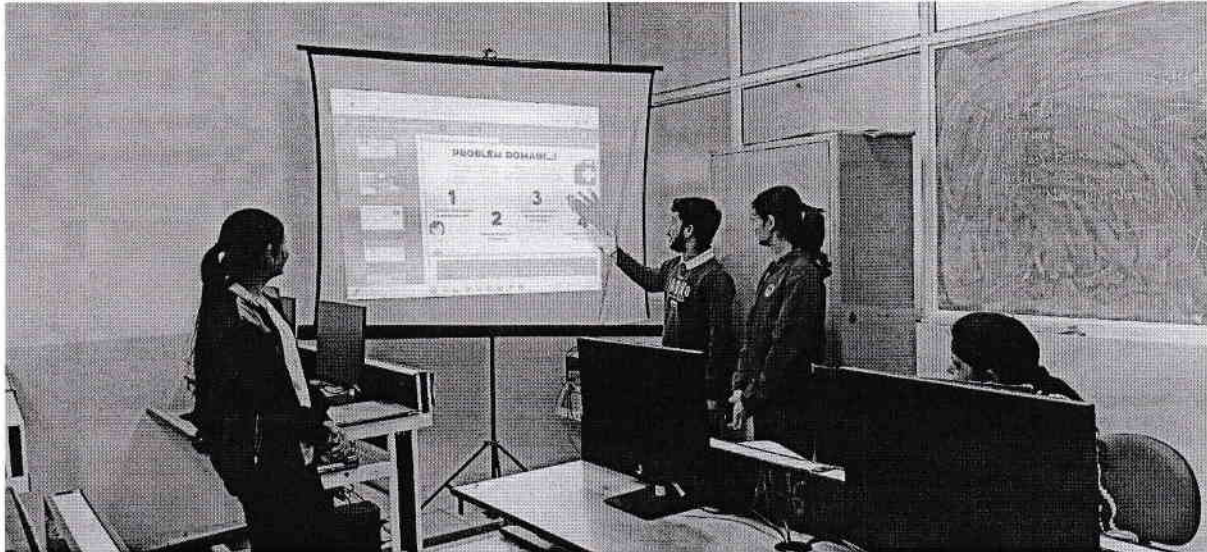
IOAC

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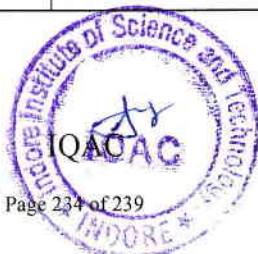


H. Rubrics for Project Evaluation

RUBRICS FOR PROJECTS RUBRICS#1: FIRST REVIEW (EVALUATION) (100 MARKS)

S. No	Rubrics	Excellent (19-20)	Good (17-18)	Average (15-16)	Partially Acceptable (13-14)	Poor (10-12)	Remarks
1	Attendance (20M)	Attended all meetings on time; demonstrated proactive involvement.	Missed 1-2 meetings but informed in advance; generally punctual.	Missed 3-4 meetings or occasionally late without prior notice.	Frequently absent or late; minimal effort to inform in advance.	Rarely present; no communication about absences.	
2	Teamwork (20M)	Actively collaborates; resolves conflicts constructively; motivates team.	Collaborates well; contributes to discussions; helps solve minor conflicts.	Participates inconsistently; minor contributions; occasional conflict issues.	Limited involvement in team tasks; conflicts disrupt performance.	Minimal participation; negative impact on team dynamics.	
3	Literature (20M)	Comprehensive review; uses diverse, credible sources; synthesizes insights.	Good coverage of sources; analysis is logical but lacks depth.	Limited sources; basic understanding of the topic with few insights.	Insufficient sources; lacks critical analysis.	No literature review or irrelevant sources.	
4	Guide Reporting (20M)	Regular updates; thorough documentation; incorporates feedback effectively.	Provides regular updates; documentation is adequate with minor gaps.	Inconsistent updates; basic documentation; limited feedback incorporation.	Rare updates; incomplete or unclear documentation.	No updates or documentation provided.	
5	Overall Presentation (20M)	Engaging, clear communication; professional visuals; strong question handling.	Clear communication; good visuals; answers most questions confidently.	Basic presentation; visuals lack impact; struggles with questions.	Unclear communication; visuals poorly designed; weak Q&A.	Disorganized; no visuals or ineffective communication.	

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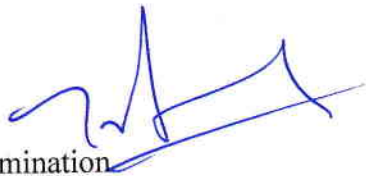


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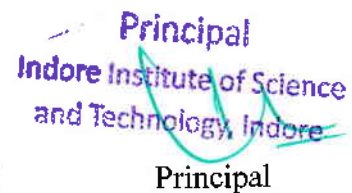
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RUBRICS FOR PROJECTS RUBRICS#2:FINAL REVIEW/END TERM(100 MARKS)

S.No	Rubrics	Excellent (19-20)	Good (17-18)	Average (15-16)	Partially Acceptable (13-14)	Poor (10-12)	Remarks
1	Innovation in the Project (20M)	The project demonstrates groundbreaking creativity and original thinking. It introduces entirely new ideas, solutions, or methodologies, potentially setting a benchmark in the domain. The approach is innovative, solving problems that have not been addressed before.	Includes a moderate degree of originality and innovation. Builds effectively on existing ideas but lacks groundbreaking contributions. Some components are well-thought-out and creative.	Shows minimal creativity; primarily relies on existing work or standard solutions. The project has limited innovative features that don't significantly stand out.	Demonstrates little or no originality. The project mostly replicates existing solutions with minimal improvements or deviations.	Completely lacks innovation or creativity. It appears entirely derivative or fails to attempt a novel approach.	
2	Literature Survey (20M)	Comprehensive and systematic review of high-quality literature. Sources are highly relevant and diverse, covering journals, books, and conferences. Insightful synthesis of information shows critical thinking and contributes directly to the project's foundation.	Adequate and well-organized review of relevant literature. Most sources are current and appropriate, although the depth of analysis may be limited. Shows reasonable understanding of the field.	Basic review with limited diversity in sources. The analysis is present but superficial, with minimal connections to the project. Some sources may be outdated.	Few or irrelevant sources; lacks depth or breadth. The review shows little understanding of the topic or its connection to the project.	Minimal or no literature survey. Sources are irrelevant or absent, and there's little to no analysis.	
3	Theoretical Modeling/Experimental Design (20M)	Exceptional theoretical framework or design, with precise experimental observations or calculations. Models or experiments are detailed, accurate, and reproducible. All objectives are achieved with measurable outcomes.	Well-developed models or experiments, with minor inaccuracies. Achieves most objectives but lacks exceptional rigor or depth in observations.	Theoretical models and experimental results are basic. While functional, they lack precision and detailed analysis. Objectives are only partially achieved.	Weak or incomplete models and experiments. Observations lack reliability or depth. The project fails to achieve significant objectives.	No coherent models or experimental observations. The project fails to produce usable or reproducible results.	


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4	Organization of the Project Report (20M)	The report is flawlessly structured, adhering completely to prescribed guidelines. All sections (e.g., abstract, introduction, objectives, results, references) are well-organized, professional, and visually appealing.	Follows most guidelines with minor inconsistencies. The structure is logical and clear, with only small deviations or formatting errors.	Basic adherence to guidelines. The report is readable but lacks polish and contains noticeable errors in structure or formatting.	Poorly organized report with significant deviations from guidelines. Content is difficult to follow due to unclear structure or errors.	Disorganized report with no adherence to guidelines. The structure is chaotic, and the content is difficult to understand.
5	Summarize Ultimate Findings (20M)	The findings are clearly articulated, highly impactful, and thoroughly supported by evidence. They align seamlessly with the project objectives, offering significant insights or applications.	Findings are clear and well-supported, with reasonable depth. While impactful, they may lack groundbreaking insights or perfect alignment with objectives.	Findings are presented but lack depth or clarity. Limited evidence is provided to support conclusions, and the impact is moderate.	Findings are unclear, weak, or incomplete. Evidence is insufficient or poorly linked to conclusions.	Findings are absent, unsupported, or irrelevant. There is no clear conclusion or takeaway from the project.

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INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING														
Major Project Assessment Jan-June-2024 CS-206														
Group	Examination No.	Name of Student	Project Title	Mobile No.	Term	Branch	Project Guide	Attendance (2023)	Teamwork (2023)	Literature Survey (2024)	Guide Reporting (2024)	Overall Presentation (2024)		
G1	0818C201121	Rishabh Kumar	Minion's Story	7634 24124	1	CSE	Ms. Veena Zakharia	A	0	0	0	0	B	
	0818C201122	Pratik Khandekar	Lower Living Invention	624655236	2	CSE	Mr. Latah Baghel	A	0	0	0	0	B	
	0818C201123	Pratik Gupta	Wastage to health in india	772509294	3	CSE	Mr. Latah Baghel	A	0	0	0	0	B	
G1	0818C201124	Vishal Sharma		7003012101				P	0	1	1	1	B	
	0818C201125	Shobham Tiwari	ENVIRONMENT	903212003	4	CSE	Mr. Rakesh Verma	P	0	7	7	7	B	
	0818C201126	Vikas Jais		881222014				P	0	7	7	7	B	
G4	0818C201127	Vikas Verma		962158003				P	0	7	7	7	B	
	0818C201128	Hridhansh Singh Chaurasia		786704433				A	0	0	0	0	B	
	0818C201129	Yash Singh	ADS (Automatic Document Scanner)	743040267	1	CSE	Mr. Rakesh Verma	A	0	0	0	0	B	
G1	0818C201130	SARANI BHADOURYA		797177482				A	0	0	0	0	B	
	0818C201131	Nikhil Mishra		821420838				A	0	0	0	0	B	
	0818C201132	Mangabhoj Singh		911713101				A	0	0	0	0	B	
G1	0818C201133	Chiranjeev Chandra	MailTask Scanner	877319106	4	CSE	Mr. Anil Gupta	A	0	0	0	0	B	
	0818C201134	Samarth Khatwani		826325970				A	0	0	0	0	B	
	0818C201135	Yash Srivastava		978487242				A	0	0	0	0	B	
G1	0818C201136	Shubham Mishra	AI Project	743040267	4	CSE	Mr. Anil Gupta	A	0	0	0	0	B	
	0818C201137	Chiranjeev Chandra		877319106				A	0	0	0	0	B	
	0818C201138	Yash Singh		743040267				A	0	0	0	0	B	
G1	0818C201139	Yash Srivastava		978487242				A	0	0	0	0	B	
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	0818C201143	Yash Srivastava		978487242				A	0	0	0	0	B	
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	0818C201146	Yash Srivastava		978487242				A	0	0	0	0	B	
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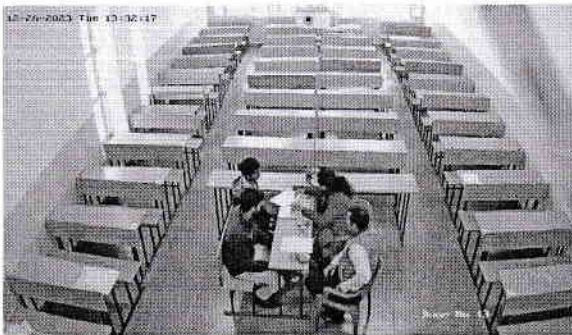
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- I. Proof for Project Evaluation based on Rubrics
- J. External Evaluation
 - 1. External and Internal Examiner Record

S.No.	Branch/ Sub Code/Sub	Name of Internal Examiner	Name of External Examiner	Internal		External	
				No. of A/R	Gr. No. of A/R	No. of A/R	Gr. No.
1	CS/CS-805 Major Project	Mr. Harish Jain	Dr. Chandralekha Kulkarni	31980182 - 31980180	69	—	Kamla Muskan Anshu
2	CS/CS-805 Major Project	Mr. Vivek Gupta	Ms. Priya Kothari	31980181 - 31980218	65	—	Akshay Shaikh
3	CS/CS-805 JOT	Mr. Anand Singh	Mr. Ravindra Yadav	31980216 - 31980287	72	—	Hemant Kumar Munshi
4	JT-801 IS	Mr. Manish Bhatnagar	Mr. Faruk Khan	31980288 - 31980354	67	—	Vijay Sachin
5	EC-801 OFC	Mr. Manish Parangra	Mr. Anand Singh	31980355 - 31980381	48	—	Govind Harshit
6	ME-801 RAC	Mr. Vipul Patel	Mr. Navin Patidar	31980386 - 31980585	31	—	Pranav Savani
7	CE-801 ERS	Mr. Shashank Agrawal	Mr. Anant Shrivastava	31980386 - 31980415	30	—	Rohit Siddhant
8	CM-801 CPMS	Mr. Farhan Khan	Dr. Anupam Mandloi	31980416 - 31980444	29	—	Akash Rishabh

Date: 24/06/24

2. End Term Examination Viva voce UG and PG.



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PG Viva voce




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