

# Indore Institute of Science & Technology

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

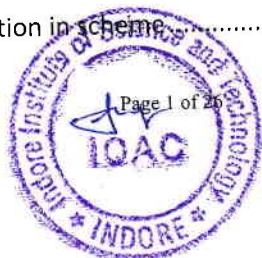
1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented.

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented:

**HEI Input: 11**

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1. Summary of the Programmes in which CBCS/ Elective course system implemented.

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementation of CBCS / elective course system
UG - ME	B.Tech.(Mechanical Engineering)	2003	Yes	2015 / 2005
UG - EC	B.Tech.(Electronics & Communication Engineering)	2003	Yes	2015 / 2005
UG - CSE	B.Tech.(Computer Science & Engineering)	2003	Yes	2015 / 2005
UG - IT	B.Tech.(Information Technology)	2007	Yes	2015 / 2009
UG - CM	B.Tech.(Chemical Engineering)	2012	Yes	2015 / 2014
UG - CE	B.Tech.(Civil Engineering)	2012	Yes	2015 / 2014
UG - AIML	B.Tech.(Artificial Intelligence & Machine Learning)	2021	Yes	2021 / 2021
UG - CSEITCS	B.Tech.(Computer Science and Engineering (Internet of Things and Cyber Security including Block Chain Technology)	2022	Yes	2022 / 2022
PG - CSE	M.E. (Computer Science & Engineering)	2011	Yes	2015 / 2012
PG - MD	M.E. (Machine Design)	2009	Yes	2015 / 2010
PG - DC	M.E. (Digital Communications)	2009	Yes	2015 / 2010



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2. University Ordinance highlights that CBCS is implemented in year 2015.

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal  
Established Under Act No.13 of 1998**

**Ordinance No 4(B)**

Section 40(1)

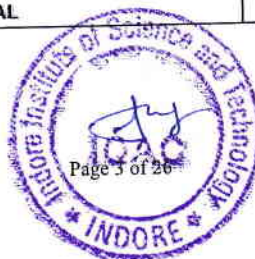
**Ordinance for Bachelor of Engineering 4 year Degree Programme  
(For the candidates admitted in 1st year on and after July 2015)**

(Under Choice Based Credit System (CBCS) applicable on and after July 2015  
(Approved on 28 Nov. 2015)

- 1.0 The Bachelor of Engineering shall be a four years (eight semesters) programme.
- 2.0 **ADMISSION**
- 2.1 Admission to four years (eight semesters) degree programme shall take place on the basis of Gazette notification issued by Government of Madhya Pradesh from time to time.
- 3.0 **STRUCTURE OF BACHELOR OF ENGINEERING (BE) PROGRAMME**
- 3.1 For the award of degree in any branch of four years degree programme, a student has to earn a minimum of 180 credits.
- 3.2 There shall be at least fourteen weeks of teaching in every semester.
- 3.3 The curriculum and syllabi of each programme (such as electrical engineering, mechanical engineering etc.) shall be notified by the University from time to time after due consultation process.
- 3.4 The structure of UG programme shall consist of the following: Foundation Courses (Basic Sciences, Engineering Arts & Sciences, Humanities, and Social Science & Management), Departmental Core, Departmental Electives and Open Category Electives distributed over eight semesters, with two semesters per academic year. The credit distribution under different categories is given below in table 1.

**Table 1 Category-wise range of assigned credits**

Categories of Courses	Assigned Range for Credits	
	Basic Science Core:	15-20
Engineering Arts & Sciences Core:	15-20	
Humanities & Social Science Core:	15-20	
Departmental Core including major project work of 8 credits:	70-84	70-84
Departmental Electives:	20-30	20-30
Open Electives:	20-30	20-30
<b>TOTAL</b>	<b>180</b>	



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3. University Ordinance highlights that CBCS is implemented and revised in year 2017.

**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL**

Established under Act No. 13 of 1998

**Ordinance No.4 (C)**

(Section 40 (1))

**Ordinance for Bachelor of Technology 4 year Degree course**  
(For the Candidates admitted in 1<sup>st</sup> year on and after July, 2017)  
(Under Choice Based Credit System)

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.

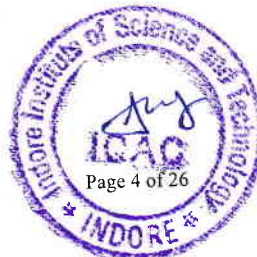
2.2 Minimum qualification for direct admission to second year Bachelor of Technology Course termed as Lateral Entry shall be as per the prevalent norms of the Government of Madhya Pradesh/AICTE.

2.3 The admissions 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 Government of Madhya Pradesh, 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 Minimum credits required to earn B.Tech. Degree in a particular branch shall be decided by the concerned Board of Studies (BOS), adhering to broad distribution of credits among various categories of courses as per details given in Table-1 below, and shall be approved by the standing committee of the Academic Council and the Executive Council of the University.



  
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4. University Ordinance highlights that CBCS / CBGS is implemented as per NEP in the year 2022.

**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 1<sup>st</sup> 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).



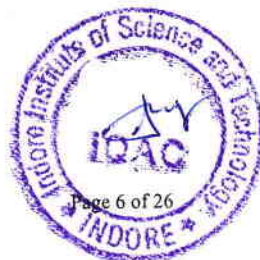
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5. List of Elective Subjects in Civil Engineering Department

Sno.	Semester	Year	Subject Code	Subject	Opted Subject
1	V	III	CE-503 (A)	Structural Analysis-II	Quantity surveying & Costing
			CE-503 (B)	Construction planning and management	
			CE-503 (C)	Quantity surveying & Costing	
			CE-503 (D)	Marine Construction	
2	V	III	CE-504 (A)	Urban and town planning	Urban and town planning
			CE-504 (B)	Remote Sensing and GIS	
			CE-504 (C)	Renewable energy resources	
			CE-504 (D)	Entrepreneurship development and management	
3	VI	III	CE-603 (A)	Water resources engineering	Water resources engineering
			CE-603 (B)	Precast and modular construction	
			CE-603 (C)	Advance pavement design	
			CE-603 (D)	Cost effective and Eco-friendly structures	
4	VI	III	CE-604 (A)	Fluid Mechanics II	Fluid Mechanics II
			CE-604 (B)	Intellectual Property rights(IPR)	
			CE-604 (C)	Environmental Impact Assessment	
			CE-604 (D)	Operation Research	
5	VII	IV	CE-702(A)	Prestressed Concrete Structures	Environmental Engg-II
			CE-702(B)	Environmental Engg-II	
			CE-702(C)	Structural Dynamics	
			CE-702(D)	Structural Design and Drawing (RCC-II)	
6	VII	IV	CE-703(A)	Internet of Things	Internet of Things
			CE-703 (B)	Project Management	
			CE-703(C)	Integrated Waste Management	
			CE-703(D)	Building Services	
7	VIII	IV	CE 802(A)	Engineering Hydrology	Foundation Engineering
			CE 802 (B)	Foundation Engineering	
			CE 802 (C)	Bridge Engineering	
			CE 802 (D)	Earthquake Resistant Design of Structures	
8	VIII	IV	CE-803(A)	Artificial Intelligence	Artificial Intelligence
			CE-803(B)	Data Analytics	
			CE-803(C)	Retrofitting and Rehabilitation of Structures	
			CE-803 (D)	Integrated Water Management	



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A. Proof of Elective choice collected from the students.

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PITHAMPUR ROAD, OPPOSITE IIM, RAU, INDORE 453331, MP  
(Affiliated to RGPV, Bhopal & Approved by AICTE, New Delhi)  
Department of Civil Engineering

Academic Year: 2022-23  
Year: III  
All the students of B.Tech (Grading) Civil Engineering are hereby informed that they have to give their Elective Subject choice in the prescribed format with the help of following Elective Subject list:

Session: Jan-June  
Semester: VI

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

S No.	Students Name	Departmental Elective	Open Elective	Student Signature
1	ABHISHEK CHOUHAN	603(A)	604(A)	Abhishek
2	AKSHATRAJ SHAH	603CA	604(A)	Akshatraj
3	ANKIT JANI	603 A	604 A	Ankit
4	ARYAN PAL	603 A	604 A	Aryan
5	ASHUTOSH PANERI	603 A	604 A	Ashutosh
6	CHAITANYA DAWAR	603A	604 A	Chaitanya
7	CHETAN WAGHLE	603A	604 A	Chetan
8	DHRUV DWIVEDI	603A	604 A	Dhruv
9	HIMANSHU SHUKLA	603A	604A	Himanshu
10	JYOTSANA NAMDEO	603A	604A	Jyotsana
11	KARAN BISHNOI	603(A)	604(A)	Karan
12	KARTIKEY SHUKLA	603(A)	604(A)	Kartikey
13	LOKESH CHOUKIKER	603(A)	604(A)	Lokesh
14	MEGHA VERMA	604(A)	604(A)	Megha
15	NIDHI AMBEKAR	603(A)	604(A)	Nidhi
16	PRADYUM SHIRSATHE	603(A)	604(A)	Pradyum
17	RAHUL SINGH	603(A)	604(A)	Rahul
18	RAJ SANGRE	603(A)	604(A)	Raj
19	ROHAN	603(A)	604(A)	Rohan
20	ROHIT PURI GOSWAMI	603(A)	604(C)	Rohit

*Chauhan*

DEPARTMENT OF CIVIL ENGINEERING  
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PITHAMPUR ROAD, OPPOSITE IIM, RAU, INDORE 453331, MP  
(Affiliated to RGPV, Bhopal & Approved by AICTE, New Delhi)

### Department of Civil Engineering

21	RUCHITA JAWLE			
22	SANDEEP YADAV	603 A	604 A	Sandeep
23	SHARIK SHAIKH	602 A	604 A	Sharik
24	SHIVLESH KUMAR VERMA	603 A	604 A	Shivlesh
25	SURYA PRATAP SINGH	603 A	604 A	Surya
26	TARUN PATHODE	603 A	604 A	Tarun
27	VIJAY KALME	603 A	604 A	Vijay
28	VIJAY PATEL	603 A	604 A	Vijay
29	YOGESH JAISWAL	603 A	604 A	Yogesh
30	ANKIT ROY	603 (A)	604 (A)	Ankit

  
Coordinator

  
HOD-CE



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B. Proof of Elective subject mention in scheme

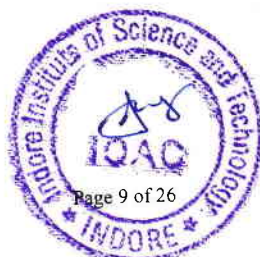
**Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal**  
New Scheme of Examination as per AICTE Flexible Curricula  
Bachelor of Technology (B.Tech) Civil Engineering (w.e.f. July, 2019)

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.	Md 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.				50	50				4	2
9.	CE-508	P	Field Visit, Case Study and Seminar	-	-	-	-	-	-	-	-	-	-	
10.	Additional Credits <sup>a</sup>		<sup>a</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
<b>Total</b>				280	80	40	120	230	750	11	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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<b>Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal</b>													
<b>New Scheme of Examination as per AICTE Flexible Curricula</b>													
<b>Bachelor of Technology (B.Tech.) [Civil Engineering] [w.e.f. Jan, 2021]</b>													
<b>VIII Semester</b>													
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*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
<b>Total</b>				<b>210</b>	<b>60</b>	<b>30</b>	<b>130</b>	<b>70</b>	<b>500</b>	<b>8</b>	<b>2</b>	<b>16</b>	<b>18</b>

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

6. List of Elective Subjects in Chemical Engineering Department

Sno.	Semester	Year	Subject Code	Subject	Opted Subject
1	V	III	CM-503 (A)	Computation Methods in Chemical Engineering	Computation Methods in Chemical Engineering
			CM 503 (B)	Pulp & paper Technology	
			CM 503 (C)	Pharmaceutical Technology	
2	V	III	CM-504 (A)	Organic Process Technology	Organic Process Technology
			CM 504 (B)	Fuel Cell Technology	
			CM 504 (C)	Energy Management	
3	VI	III	CM-603 (A)	Process Equipment Design I	Process Equipment Design I
			CM 603 (B)	Polymer Technology	
			CM 603 (C)	Nano Technology	
4	VI	III	CM-604 (A)	Chemical Process Control	Chemical Process Control
			CM 604 (B)	Process Optimization Techniques	
			CM 604 (C)	Fertilizer Technology	
5	VII	IV	CM-702(A)	Transport Phenomena	Petroleum Refining Engineering
			CM-702(B)	Bio Process Technology	
			CM-702(C)	Petroleum Refining Engineering	
6	VII	IV	CM-703(A)	Environmental Engineering	







			CM-703 (B)	Process Intensification	Environmental Engineering
			CM-703(C)	Non-conventional energy Sources	
7	VIII	IV	CM-802(A)	Process Piping Design	Process Piping Design
			CM-802(B)	Process safety & Hazards Management	
			CM-802(C)	Fertilizer Technology	
8	VIII	IV	CM-803(A)	Process Plant Economics & Management	Process Plant Economics & Management
			CM-803(B)	Petrochemical Technology	
			CM-803(C)	IPR (Intellectual Property Right)	

A. Proof of Elective choice collected from the students.

	A	B	C	D	E	F	G
1	Timestamp	Name	Email	Enrollment No	Choose Departmental El	Choose Open Elective	
2	7/23/2022 13:13:00	Karan Prajapat	Karan.prajapatcm2020@	0818CM201011	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
3	7/23/2022 13:13:19	Kartkey Sharma	kartkey.sharmacm2020@	0818CM201012	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
4	7/23/2022 13:14:11	Chandan singh	chandansingh2002k@gn	0818cm201007	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
5	7/23/2022 13:15:52	Suryansh Mishra	suryanshmishra8609@gi	0818CM201025	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
6	7/23/2022 13:19:00	Ayush kushwah	ayush.kushwahcm2020@	0818CM201005	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
7	7/23/2022 13:20:53	Arpit Sharma	arplys41@gmail.com	0818CM201004	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
8	7/23/2022 13:27:15	Palak chandel	palak.chandelcm2020@i	0818CM201016	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
9	7/23/2022 13:39:09	Shivam Bhatnagar	shivam.bhatnagarc202	0818CM201022	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
10	7/23/2022 13:45:47	Man Mohan Patel	gurjamanmohanr100@g	0818CM213D10	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
11	7/23/2022 13:50:39	Vipul kumar	vipulvishwakma061@g	0818CM201027	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
12	7/23/2022 13:57:44	RAHUL KUMAR RAY	rahul.raycm2020@indore	0818CM201018	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
13	7/23/2022 14:04:49	Banke Bihari Goswami	goswami2870@gmail.coi	0818CM213D04	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
14	7/23/2022 14:04:51	Deepak Malviya	deepakmalviya26719@g	0818CM201008	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
15	7/23/2022 14:08:37	Vaishali Raghuvanshi	Vaishali.raghuvanshicm	0818CM201026	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
16	7/23/2022 14:09:29	Chandan Hazra	chandan.hazracm2020@	0818CM201006	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
17	7/23/2022 14:19:39	Anika Garg	anika.gargcm2020@indo	0818CM201003	CM 503 (C) Pharmaceuti	CM 504 (A) Organic Process Technology	
18	7/23/2022 14:27:43	GOUTAM CHATTERJEE	goutam.chatterjeecm202	0818CM201010	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
19	7/23/2022 14:37:17	Suraj	SURAJBHUSHAN8962@	0818CM201024	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
20	7/23/2022 14:39:25	NITYA KASERA	nitya.kaseracm2020@lnt	0818CM201015	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
21	7/23/2022 14:46:22	Suhani Jain	isuhanijain7@gmail.com	0818CM201023	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
22	7/23/2022 15:34:51	Anup singh	anupsinghs2000@gmail	0818CM213D03	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
23	7/23/2022 15:46:49	Millind Diwakar	diwakarmillind86@gmail	0818CM201014	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
24	7/25/2022 11:38:33	Ritik kaushik	ritikkaushik45@gmail.co	0818CM213D13	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
25	7/25/2022 11:57:03	Anand Goswami	anand.goswamicm2020@	0818CM201002	CM 503 (A) Computation	CM 504 (C) Energy Management	
26	7/26/2022 14:20:17	Fulsingh chouhan	Fulsinghchouhancm2020	0818CM201009	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	
27	8/1/2022 11:02:45	Dhanendra Pratap Singh	dhanendra.singh2020@	0818CM213D06	CM 503 (A) Computation	CM 504 (A) Organic Process Technology	



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B. Proof of Elective subject mention in scheme

**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.											
<b>Total</b>				<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

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

**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, 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.	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 -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.											
<b>Total</b>				<b>210</b>	<b>60</b>	<b>30</b>	<b>190</b>	<b>210</b>	<b>700</b>	<b>8</b>	<b>2</b>	<b>28</b>	<b>24</b>

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



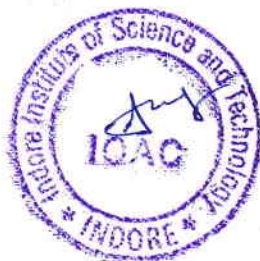
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7. List of Elective Subjects in Computer Science and Engineering Department

Sno.	Semester	Year	Subject Code	Subject	Opted Subject
1	V	III	CS-503(A)	Data Analytics	Pattern Recognition
			CS-503(B)	Pattern Recognition	
			CS-503(C)	Cyber Security	
2	V	III	CS-504(A)	Internet and Web Technology	Internet and Web Technology
			CS-504(B)	Object Oriented Programming	
			CS-504(C)	Introduction to Database Management Systems	
3	VI	III	CS-603(A)	Advanced Computer Architecture	Compiler Design
			CS-603(B)	Computer Graphics & Visualization	
			CS-603(C)	Compiler Design	
4	VI	III	CS-604(A)	Knowledge Management	Project Management
			CS-604(B)	Project Management	
			CS-604(C)	Rural Technology & Community Development	
5	VII	IV	CS-702(A)	Computational Intelligence	Wireless & Mobile Computing
			CS-702(B)	Deep & Reinforcement Learning	
			CS-702(C)	Wireless & Mobile Computing	
			CS-702(D)	Big Data	
6	VII	IV	CS-703(A)	Cryptography & Information Security	Agile Software Development
			CS-703(B)	Data Mining and Warehousing	
			CS-703(C)	Agile Software Development	
			CS-703(D)	Disaster Management	
7	VIII	IV	CS-802(A)	Block Chain Technologies	Object Oriented Software Engineering
			CS-802(B)	Cloud Computing	
			CS-802(C)	High Performance computing	
			CS-802(D)	Object Oriented Software Engineering	
8	VIII	IV	CS-803(A)	Image Processing and Computer Vision	Internet of Things
			CS-803(B)	Game Theory with Engineering applications	
			CS-803(C)	Internet of Things	
			CS-803(D)	Managing Innovation and Entrepreneurship	



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A. Proof of Elective choice collected from the students.

12/20/22, 11:55 AM

CSE VI semester 2022-23 elective choices

## CSE VI semester 2022-23 elective choices

Fill it by tomorrow (i.e. on 13th Dec, 2022)

\* Required

1. Student Name \*

\_\_\_\_\_

2. Enrolment number \*

\_\_\_\_\_

3. Mobile number \*

\_\_\_\_\_

4. Department Elective (choose any one) \*

Mark only one oval.

- Computer Graphics & Visualisation
- Compiler Design

5. Open Elective (Choose any one) \*

Mark only one oval.

- Knowledge Management
- Project Management



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[https://docs.google.com/forms/d/1\\_C07y5Wc\\_OKT-OPsC6\\_pC06\\_gV\\_SxY0p2Aa0385CHYredir?ts=63a0409e](https://docs.google.com/forms/d/1_C07y5Wc_OKT-OPsC6_pC06_gV_SxY0p2Aa0385CHYredir?ts=63a0409e)

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2023-2024

## B. Proof of Elective subject mention in scheme

<b>Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal</b>													
<b>New Scheme of Examination as per AICTE Flexible Curricula</b>													
<b>Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f. Jan, 2021)</b>													
<b>Computer Engineering/Computer Science &amp; Technology</b>													
<b>VIII Semester</b>													
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	Interact 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/O/E 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
<b>Total</b>				<b>210</b>	<b>60</b>	<b>30</b>	<b>130</b>	<b>70</b>	<b>500</b>	<b>8</b>	<b>2</b>	<b>16</b>	<b>18</b>

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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2023-2024

**Rajiv Gandhi Proudyogiki 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.	CS-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.					50			4	2
9.	CS-508	P	Minor Project - I	-	-	-	-	-	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

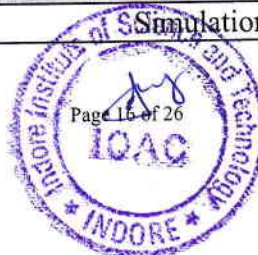
Departmental Electives		Open Electives	
CS 503 (A) Data Analytics	CS 503 (B) Pattern Recognition	CS 504 (A) Internet and Web Technology *	CS 504 (B) Object Oriented Programming **
CS 503 (C) Cyber Security		CS 504 (C) Introduction to Database Management Systems**	

\* 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

## 8. List of Elective Subjects in Information Technology Department

Sno.	Semester	Year	Subject Code	Subject	Opted Subject
1	V	III	IT-503(A)	Theory of Computation	Theory of Computation
			IT-503(B)	Microprocessor & Interfacing	
			IT-503(C)	Object Oriented Analysis and Design	
2	V	III	IT-504(A)	Artificial Intelligence	Artificial Intelligence
			IT-504(B)	E Commerce & Governance	
			IT-504(C)	Java Programming	
3	VI	III	IT-603(A)	Compiler Design	Compiler Design
			IT-603(B)	Data Mining	
			IT-603(C)	Embedded System	
4	VI	III	IT-604(A)	Intellectual Property Rights	Software Engineering
			IT-604(B)	Software Engineering	
			IT-604(C)	Wireless Sensor Networks	
5	VII	IV	IT-702(A)	Data Science	Cloud Computing
			IT-702(B)	Cloud Computing	
			IT-702(C)	Simulation and Modeling	



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6	VII	IV	IT-702(D)	Augmented and Virtual Reality	Internet of Things
			IT-703(A)	Cyber Laws and Forensics	
			IT-703(B)	Internet of Things	
			IT-703(C)	Social Networks	
			IT-703(D)	Digital Image Processing	
7	VIII	IV	IT-802(A)	Machine Learning	Machine Learning
			IT-802(B)	Natural Language Processing	
			IT-802(C)	Robotics	
			IT-802(D)	Quantum Computing	
8	VIII	IV	IT-803(A)	Blockchain Technology	Parallel Computing
			IT-803(B)	Human Computer Interaction	
			IT-803(C)	3D Printing and Design	
			IT-803(D)	Parallel Computing	



  
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A. Proof of Elective choice collected from the students.

Elective Subject Choice (IT VIII Sem)

12/19/2022 3:24 PM

## Elective Subject Choice (IT VIII Sem)

For all Students.

For VIII semester, you are required to make a choice from the given category of departmental elective and open elective. Give your choice wisely by feeling at your own risk. The decision to run a particular subject will be taken by the faculty in-charge. Provide your choice latest by **December 13, 2022 1:00 PM.**

\* Required

- Name \*
- Enrollment No \*
- Email ID
- Departmental Elective \*  
Mark only one oval.  
 Machine Learning  
 Artificial Intelligence
- Open Elective \*  
Mark only one oval.  
 Human Computer Interaction  
 Parallel Computing

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*[Handwritten Signature]*

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B. Proof of Elective subject mention in scheme

**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)**

**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 & Semstotal
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	2	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.				50	50	-	-	4	2
8.	IT608	P	Minor Project II	-	-	-	-	-	-	-	-	-	-
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) 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 Prondvogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) [Information Technology] [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.	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 level.										UG
9.			<b>Total</b>	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

9. List of Elective Subjects in Electronics and Communication Department.

Sno.	Semester	Year	Subject Code	Subject	Opted Subject
1	V	III	EC-503(A)	Communication Network and Transmission Lines	CNTL
			EC-503(B)	Mobile Communication	
			EC-503(C)	Advanced Control System	
2	V	III	EC-504(A)	Electro Magnetic Theory	EMT
			EC-504(B)	Computer System Organization	
			EC-504(C)	Introduction to Database Management Systems	
3	VI	III	EC-603(A)	Data Communication	Data Communication
			EC-603(B)	CMOS Design	
			EC-603(C)	Satellite Communication	
4	VI	III	EC-604(A)	Microcontroller & Embedded system	Microcontroller and Embedded System
			EC-604(B)	Bio-medical Electronics	
			EC-604(C)	Power Electronics	
5	VII	IV	EC-702(A)	Microwave Engineering	Microwave Engineering
			EC-702(B)	Information Theory and Coding	
			EC-702(C)	Nano Electronics	
6	VII	IV	EC-703(A)	Cellular Mobile Communication	



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			EC-703(B)	Internet of Things	Cellular Mobile Communication
			EC-703(C)	Probability Theory and Stochastic Process	
7	VIII	IV	EC-802(A)	AI & Signal Processing	AI & Signal Processing
			EC-802(B)	Wireless Communication	
			EC-802(C)	5G Technology	
8	VIII	IV	EC-803(A)	Wireless Network	Digital Image Processing
			EC-803(B)	Digital Image Processing	
			EC-803(C)	Speech Processing	



  
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2023-2024

A. Proof of Elective choice collected from the students.

17	0818EC201020	DIPESH WAGHE	✓			✓				Dipesh
18	0818EC201021	DIVYANSHU BHATI	✓			✓				D. Bhati
19	0818EC201022	GAUTAM DAHALE			✓	✓				G. Dahale
20	0818EC201023	GAUTAM PAWAR	✓			✓				G. Pawar
21	0818EC201024	GITESH AHIRWAR	✓					✓		G. Ahirwar
22	0818EC201025	GOUTAM SHIVDE			✓	✓				G. Shivde
23	0818EC201028	JAY PANDEY	✓			✓				J. Pandey
24	0818EC201029	KHUSHBOO MALVIYA	✓						✓	K. Malviya
25	0818EC201030	KULDEEP SOLANKI	✓			✓				K. Solanki
26	0818EC201031	NAINA VARMA			✓					N. Varma
27	0818EC201033	NANDINI SONI	✓			✓				N. Soni
28	0818EC201034	NEERAJ PATIL	✓			✓				N. Patil
29	0818EC201035	NIKITA TOMAR	✓					✓		N. Tomar
30	0818EC201036	NIKUNJ GIRI GOSWAMI	✓			✓				N. Goswami
31	0818EC201038	PRAKHMAR SOLANKI			✓				✓	P. Solanki
32	0818EC201039	PRIYA SHARMA	✓			✓				P. Sharma
33	0818EC201040	RAHUL THAKUR	✓			✓				R. Thakur
34	0818EC201041	RASHIKA DIWEKAR			✓	✓				R. Diwekar
35	0818EC201042	RITIKA DIWEKAR	✓			✓				R. Diwekar
36	0818EC201044	SHABINA KHAN	✓					✓		S. Khan
37	0818EC201045	SHARAD PRATAP SINGH BAIS	✓			✓				S. Bais
38	0818EC201047	SIDDHARTH RATHORE			✓	✓				S. Rathore
39	0818EC201048	SIMRAN RAJPUT	✓			✓				S. Rajput
40	0818EC201049	SOMESH SHARMA			✓			✓		S. Sharma



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Monday, 50 December 2024







# Indore Institute of Science & Technology

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

## B. Proof of Elective subject mention in scheme

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. July, 2019)													
V Semester													
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.	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	OE Lab	Matlab Programming	-	-	-	30	20	50	-	-	4	2
7.	EC-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.	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) CNTI	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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**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
		<b>Total</b>	<b>6</b>	<b>2</b>	<b>12</b>	<b>20</b>	<b>140</b>	<b>40</b>	<b>20</b>	<b>120</b>	<b>180</b>	<b>500</b>

w.e.f. July-2010

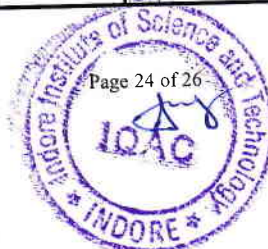
L: Lecture - T: Tutorial - P: Practical

Elective-I	
MEDC-301(A)	Information Theory & Coding

Elective-II	
MEDC-302(A)	Advanced Digital Communication
MEDC-302(B)	Optical Instrumentation & Measurement

10. List of Elective Subjects in Mechanical Engineering Department

S. No	Year	Category	Semester	Type	Elective Code	Elective Name
1	Final	B.Tech. Grading	8	Elective-I	ME802(A)	Automobile Engineering
					ME802(B)	Tribology & Maintenance Engineering
					ME802(C)	Machine Tool Design
					ME802(D)	Production Planning and Control
				Elective -II	ME803(A)	Data analytics
					ME803(B)	Energy Conservation, Management & Audit
					ME803(C)	Entrepreneurship and Management Concepts
					ME803(D)	Management Information System
			7	Elective -I	ME702 (A)	Advance Machining Process
					ME702 (B)	Internet of Things
					ME702 (C)	Power Plant Engineering
				ME702 (D)	Advance Machine Design	
				Elective -II	ME703 (A)	Operation Research & Supply Chain
ME703 (B)	Artificial Intelligence Techniques					
	ME703 (C)	System Engineering				



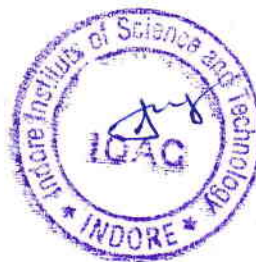





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					ME703 (D)	Reliability Engineering
2	Third	B.Tech. Grading	6	Elective -I	ME603 (A)	Turbo Machinery
					ME603 (B)	Computer Aided Engineering
					ME603 (C)	Product Design
				Elective -II	ME604 (A)	Robotics
					ME604 (B)	Optimization Techniques
					ME604 (C)	Renewable Energy Technology
			5	Elective -I	ME503 (A)	Mechatronics
					ME503 (B)	Dynamics of Machines
					ME503 (C)	Alternative Automotive Fuels and Emissions
				Elective -II	ME504 (A)	Industrial Engineering and Ergonomics
ME504 (B)	TQM and SQC					
ME504 (C)	Finite Element Method					
3	Final	M.E.(Machine Design)	3	Elective-I	MMMD - 301(A)	Fatigue Fracture Analysis
					MMMD - 301(B)	Experimental stress Analysis
				Elective-II	MMMD - 302(A)	Fluid Film Lubrication



  
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A. Proof of Elective subject mention in scheme

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
New Scheme of Examination as per AICTE Flexible Curricula  
Bachelor of Technology (B.Tech.) Mechanical 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.	ME 501	DC	I C Engines	70	20	10	30	20	150	3	-	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.	ME 507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3	
8.		IN	Internship - III	To be completed anytime during FIRh/Sixth semester. Its evaluation/credit to be added in Seventh Semester.					50	50	-	-	4	2
9.	ME 508	P	Minor Project I	-	-	-	-	-	50	-	-	-	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 (B) TQM and SQC	
ME 503 (C) Alternate Automotive Fuels & Emissions		ME 504 (C) Finite Element Method	

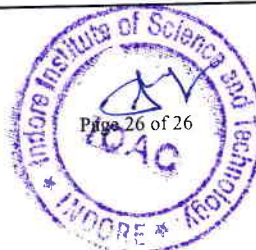
1 Hr Lecture    1 Hr Tutorial    2 Hr Practical  
1 Credit            1 Credit            1 Credit

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
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Bachelor of Technology (B.Tech.) Mechanical Engineering (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			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.	ME 702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME 703	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.	ME 706	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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