



**Lokmanya Tilak Jankalyan Shikshan Sanstha's**  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



**NAAC Accredited**

**1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment Index**

<b>Sr. No</b>	<b>INDEX</b>	<b>Page No.</b>
1	Vision & Mission of The Institute	2
2	Vision & Mission of Departments	4
3	Sample PEO's And PSO's	11
4	Various Committees	15
5	Academic Calendar of RTM Nagpur University	22
6	Academic Calendar of Institute	33
7	Time Table & Work Load	40
8	Structure of Curriculum	47
9	Activities For Faculty Up Gradation	52
10	Induction Program For First Year Students	62
11	Teaching Plan	66
12	Sample E-Content Developed By Faculties	69
13	Sample Google Classroom	72
14	Sample Assignment Quiz	80
15	Virtual Class	82
16	Academic Monitoring	85
17	Question Bank	88
18	Internal Test Schedule	96
19	Internal Test Sample Question Paper	102
20	Internal Test Sample Attendance Sheet	105
21	Final Year Project Review	108
22	Add On/Certificate Courses	122
23	Students Achievement in Academics	148
24	Activities Conducted Beyond Syllabus for Curriculum Enrichment	150

# Vision & Mission of The Institute



## College Vision and Mission

### Vision

To be a leading institution ensuring Academic Excellence, Nurturing Research, Innovation and Entrepreneurial Attitude to produce employable technocrats for service to society.

### Mission

1. To be a student centric institute imbining experiential, innovative and lifelong learning skills, addressing societal problems.
2. To create a conducive ecosystem for Research, Innovation & extension services.
3. To inculcate entrepreneurial attitude and values amongst Learners.
4. To collaborate with Industries and other institutions to strengthen symbiotic relations.
5. To inculcate high ethical and moral values among the students.



(Dr. N.K. Choudhari)

**Principal**

Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.

Vision & Mission  
of  
Departments



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
*NAAC Accredited*



## Department of Computer Science and Engineering

### VISION OF THE DEPARTMENT

Our vision is to be a leading Computer Science and Engineering department that nurtures innovation, excellence, and ethical values & fosters creativity, critical thinking, and problem-solving skills in our students.

### MISSION OF THE DEPARTMENT

1. To cultivate a culture of research and innovation, encouraging faculty and students to engage in cutting-edge research that advances the frontiers of computer science and engineering
2. To create a research and academic environment which will be driven by real-world challenges and will aim to address societal needs while contributing to the global body of knowledge.
3. To actively seek partnerships with leading technology companies and organizations to provide our students with opportunities for internships and industry-led projects.
4. To create a supportive and inclusive environment that values diversity, fosters collaboration, and promotes the well-being of our students, faculty, and staff.
5. To inculcate the cultivation of ethical values, professionalism, and a sense of social responsibility among our students.

**Prof. K. N. Hande**

**HoD**

**Head of Department**

**Department of Computer Sc. & Engg.**  
**Priyadarshini Bhagwati College of Engg.**  
**Umred Road, Nagpur - 24.**

**Dr. N. K. Choudhari**

**Principal**

**Principal**

**Priyadarshini Bhagwati College of Engg.**  
**Umred Road, Nagpur.**

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR.**

**Department of Information Technology**

**Vision**

Our aim is to attain excellent standards of quality education and position the department as a prominent provider of skilled professionals for the IT sector.

**Mission**

To provide a high-quality and value-based education that equips engineering graduates in Information Technology with strong technical knowledge, excellent communication skills, and the ability to excel in their professional careers.



Dr M S Chaudhari

**Head**

Information Technology Department  
Priyadarshini Bhagwati College of Engineering  
Umred Road, Nagpur.



Dr Mrs A R Chaudhari

**IQAC Coordinator**

Priyadarshini Bhagwati College of Engineering  
Umred Road, Nagpur.



Dr N K Choudhari

**Principal**

Priyadarshini Bhagwati College of Engineering  
Umred Road, Nagpur.



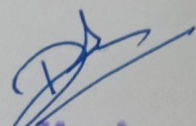
Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbag), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email : principalpbcoe@gmail.com, Website: www.pbce.ltjss.net



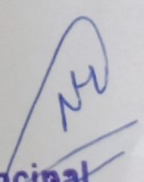
## Department of Electronics & Communication Engineering

### *Mission*

Establish a unique learning environment to enable the students to face the challenges of the Electronics and Communication Engineering field & to provide ethical and value based education by promoting activities addressing the societal needs.

  
**Head**

**Electronics & Communication**  
Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.

  
**Principal**

Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

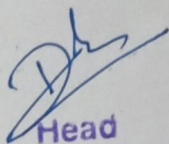
Harpur Nagar, Umred Road (Near Bada Tajbag), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email : principalpbcoe@gmail.com, Website: www.pbce.ltjss.net



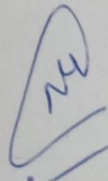
## Department of Electronics & Communication Engineering

### *Vision*

To be recognized by the society at large as an excellent department, offering quality, academically excellent, research oriented Engineers in the Electronics and Communication Engineering field to meet the industrial and social requirements of new era.

  
Head

Electronics & Communication  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.

  
Principal

Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



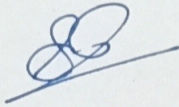
**Priyadarshini Bhagwati College of Engineering, Nagpur**  
**Mechanical Engineering Department**

**DEPARTMENT VISION**

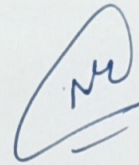
To produce competent engineers who are ready to contribute effectively to the advancement of mechanical engineering and to accommodate the needs of the profession.

**DEPARTMENT MISSION**

To be recognized for quality education with excellence in the fields of design, manufacturing and thermal sciences and also create technical manpower in Mechanical engineering for global challenges.



Mr. S. M. Pimpalgaonkar  
Head Meachnical Department



Dr. N. K. Choudhari  
Principal  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



# Sample PEO's And PSO's



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
*NAAC Accredited*



## Department of Computer Science and Engineering

### PROGRAM EDUCATIONAL OBJECTIVES

<b>PEO-1</b>	To understand and analyze the basic mathematical and technical expertise required to acquire the skills in Computer Science.
<b>PEO-2</b>	To initiate and apply the computing techniques and algorithms through programming skills for problem solving in Computer Science and Engineering.
<b>PEO-3</b>	To analyse the process of computing and its applications by acquiring the expertise in the domains of computer science.
<b>PEO-4</b>	To communicate effectively with society, peers and to have ethical and integrated approach towards problem solving.



**Prof K N Hande**

Head of **HoD**  
Department of Computer Sc. & Engg.  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur - 24.



**Dr. N. K. Choudhari**

**Principal**  
**Principal**  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



## Department of Computer Science and Engineering

### PROGRAM SPECIFIC OUTCOMES

<b>PSO-1</b>	The graduates will be able to apply the mathematical aspects of computer science in programming and software development life cycle and propose the effective design of computing system.
<b>PSO-2</b>	The graduates will acquire an ability of applying logical approach in computing and algorithmic problem solving methods.
<b>PSO-3</b>	The graduates will be able to analyse and understand the gap between requirements and needs of software solutions.

**Prof K N Hande**

**HoD**  
Head of Department  
Department of Computer Sc. & Engg.  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur - 24.

**Dr. N. K. Choudhari**

**Principal**  
**Principal**  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.

**Department of Information Technology**

**Programme Educational Objectives:**

- To produce technically efficient manpower to cater the needs of IT Industry with sound fundamental knowledge.
- To develop graduates having abilities to design, develop and deploy solutions using emerging technologies.
- To use the acquired knowledge to help society and environment sensitively with professional ethics .

---

**Program Specific Outcomes :**

- Demonstrate logic development ability along with mathematical concepts to solve real world problems.
- Ability to understand the principles and working of computer systems, software engineering principles, database systems , Web technologies and a range of programming language with open source platforms relevant to IT Industry.
- Ability to work professionally in IT Industry and prepare for higher studies .



Dr M S Chaudhari

Head

Information Technology Department

Priyadarshini Bhagwati College of Engineering  
Umred Road, Nagpur.



Dr Mrs A R Chaudhari

IQAC Coordinator

Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



Dr N K Choudhari  
Principal

Principal

Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.

# Various Committees



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

(NAAC ACCREDITED)

Harpur Nagar, Umred Road, Nagpur - 440 024 (India) Tel. : +91-712-2710281, Fax : + 91-712-2710283

E-mail : principalpbcoe@gmail.com Website : www.pbcoe.edu.in



### Code of Conduct Monitoring Committee

Ref No: PBCOE/ADMIN/2022-23/

Date: 21.06.2022

#### OFFICE ORDER

The constitution of Code of Conduct monitoring committee for session 2022-23 is as follows

Sr No	Name of Member	Affiliation / Organization	Designation
1.	Dr. N. K. Choudhari	Principal, PBCOE, Nagpur	Chairperson
2.	Dr. (Mrs) A. R. Chaudhari	Dean Academics & IQAC Coordinator	Member
3.	Mr M S Chaudhari	HoD, IT	Member
4.	Mr S. M. Pimpalgaonkar	HoD, Mech	Member
5.	Dr. R. N. Patil	HoD, Civil	Member
6.	Dr.(Ms) D. M. Kate	HoD, EC	Member
7.	Mr K. N. Hande	HoD, CSE	Member
8.	Mr. S. Khedikar	Registrar	Member
9.	Mr.Rajesh Daulatkar	Librarian	Member
10.	Dr. (Mrs.) .R. A. Pimpale	Assitant Professor,Department of IT	Coordinator

Dr. N K Choudhari  
Principal



## ANTI-RAGGING COMMITTEE

Ref No.: PBCOE/ADMIN/2022-23/ 290 E

Date: 21/06/2022

### OFFICE ORDER

#### APPOINTMENT ORDER-ANTI RAGGING COMMITTEE

**Subject:** Constitution of Anti Ragging Committee as per AICTE regulations in Priyadarshini Bhagwati College of Engineering, Nagpur

**Ref:** AICTE notification dated 01-07-2009 regarding prevention and prohibition of Ragging in technical Institutions, Universities, including Deemed to be Universities imparting technical education.

As per the AICTE regulations cited above, every institution University including Deemed to be University imparting technical education shall constitute a Committee to be known as the Anti-ragging Committee to be nominated and headed by the Head of the Institution, and consisting of representatives of civil and police administration, local media, Non Government Organizations involved in youth activities, representatives of faculty members, representatives of parents, representatives of students belonging to the fresher's category as well as senior students, non-teaching staff and shall have a diverse mix of membership in terms of level as well as gender.

Following these instruction of AICTE the undersigned has to inform that following committee has been constituted to prohibit, prevent and eliminate the scourge of ragging including any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student or including in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in the institute, and thereby, to provide for the healthy development, physically and psychologically, of all students of the institute.

S. N.	Name of the Member	Designation	Profession/Associated with
1	Dr. N. K. Choudhari	Head	Principal of Institute
2	Shri Kishor Nagrale	Member	Varishta Police Nirikshak, Nandanwan Police Station
3	Shri. Anil Fekarikar	Member	Journalist, Dainik Tarun Bharat, Nagpur-Representative of Local Media
4	Shri. Ashok Yeole	Member	Prayas, Nagpur- Representative of Non Government Organization
5	Dr. A. C. Haldar	Member	Senior Faculty Member
6	Prof. R. K. Bhojar	Member	Faculty Member(I/C Anti Ragging Squad)
7	Mr. Ramesh Mogare	Member	Representative of Parent
8	Mr. Atharva Mogare	Member	Representative of Student Belonging to Fresher
9	Mr. Vallabh Kharwade	Member	Representative of Senior Student
10	Mr. Bhushan Latkar	Member	Representative from Non-Teaching Staff

It shall be the duty of Anti-ragging committee to ensure compliance with provisions of these Regulations as well as the provisions of any law for the time being in force concerning ragging; and also to monitor and oversee the performance of the Anti-Ragging Squad in prevention of ragging in the institute.

Principal

Priyadarshini Bhagwati College of Engineering, Nagpur

Copy submitted to the Hon'ble Secretary, LTJSS, Nagpur  
Copy submitted to the Hon'ble Director LTJSS, Nagpur  
Copy to Anti Ragging Committee Member.





### Entrepreneurship Development Cell

Ref No.: PBCOE/ADMIN/2022-23/ 317 - F


Date: 22/07/2022

#### OFFICE ORDER

The constitution student coordinator of Entrepreneurship Development Cell for session 2022-2023 is as follows

Sr. No.	Name of Student	Designation	Semester	Department
1	AAYUSH KHADGI	President	VII	IT
2	NIHAL KUKDE	Vice President	VII	MECH
3	MOHIT BHOYAR	Secretary	VII	CIVIL
4	SANSKRUTI TIWARI	Treasurer	V	CSE
5	HARSHAD BAGDE	I/C Event Management	VII	IT
6	VALLABH KHARWADE	I/C Publicity	III	EC
7	NIDHI BHAISARE	Member	VII	IT
8	DEEPAK POKALE	Member	V	MECH
9	SAHIL UKEY	Member	V	MECH
10	TANISHKA DUBEY	Member	V	CSE
11	RUGVEDA DHOK	Member	V	CSE
12	PRAJWAL LANJEWAR	Member	V	IT
13	PARAG ZODE	Member	V	CIVIL
14	PRATYAY SINGH	Member	V	CSE
15	MOHIT ODNALWAR	Member	V	CIVIL
16	CHAITANYA DHANDE	Member	V	CIVIL
17	PRANJALI TARANKAR	Member	III	EC

  
Dr. A.D. Anjekar  
ED CELL In-Charge

  
Dr. N. K. Choudhari  
Principal

**Principal**

Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

(NAAC ACCREDITED)

Harpur Nagar, Umred Road, Nagpur - 440 024 (India) Tel. : +91-712-2710281, Fax : + 91-712-2710283

E-mail : principalpbcoe@gmail.com Website : www.pbcoe.edu.in



### Industry Institute Interaction Cell

Ref No: PBCOE/ADMIN/2022-23/290 H


Date: 21.06.2022

#### OFFICE ORDER

The constitution of Institute Interaction Cell for session 2022-23 is as follows

Sr No	Name of Member	Affiliation / Organization	Designation
1.	Dr. N. K. Choudhari	Principal, PBCOE, Nagpur	Chairperson
2.	Dr. Mrs. A. R. Chaudhari	Dean Academics & IQAC Coordinator	Member
3.	Dr. M. S. Chaudhari	HoD, IT	Member
4.	Mr. S. M. Pimpalgaonkar	HoD, Mech	Member
5.	Dr. R. N. Patil	HoD, Civil	Member
6.	Dr. (Ms) D. M. Kate	HoD, EC	Member
7.	Mr. K. N. Hande	HoD, CSE	Member
8.	Dr. A. P. Thakre	Assistant Professor, EC	Member
9.	Dr. S. P. Daf	Assistant Professor, Mech Engg	Coordinator



  
Dr. N K Choudhari  
Principal  
Principal

Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbag), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email : principalpbcoe@gmail.com, Website: www.pbce.ltjss.net



### Students Cell


Ref No.: PBCOE/ADMIN/2022-23/ 317-D


Date: 22/07/2022

#### OFFICE ORDER

The constitution student coordinator of Students Cell for session 2022-2023 is as follows

Sr. No.	Name of Student	Designation	Semester	Department
1	Ms. Anushree Raut	President	VII Sem	IT
2	Mr. Gaurav Bhojar	Vice President	VII Sem	Mech
3	Mr. Anurag Jais	Secretary	VII Sem	CSE
4	Ms. Nikita Bhojar	Treasurer	VII Sem	CIVIL
5	Mr. Anant Jain	I/C Event Management	III Sem	IT
6	Ms. Nikita Nanhe	I/C Publicity	III Sem	CSE
7	Mr. Nishant Dahare	Member	III Sem	EC
8	Mr. Bhavesh Kadwe	Member	VII Sem	Mech
9	Ms. Ruchita Yerpide	Member	VII Sem	IT
10	Mr. Abhishek Chaure	Member	VII Sem	Mech
11	Mr. Gunjan Kuttarmare	Member	VII Sem	Civil
12	Mr. Ritesh Nagrikar	Member	VII Sem	IT
13	Mr. Mukul Hatwar	Member	V Sem	Civil
14	Ms. Pradya Khobragade	Member	V Sem	IT
15	Ms. Shruti Patriwar	Member	V Sem	Civil
16	Ms. Ankita Gomkar	Member	V Sem	IT
17	Ms. Jagruti Itiwale	Member	V Sem	Civil
18	Ms. Priyanshu Kolhatkar	Member	V Sem	CSE
19	Ms. Tanishka Dubey	Member	V Sem	CSE
20	Mr. Anjaney Charmode	Member	III Sem	CSE
21	Ms. Priya Soni	Member	III Sem	EC
22	Ms. Ayushi Kakde	Member	III Sem	IT

  
Ms. S. A. Bhande  
Students Cell Incharge

  
Dr. N. K. Choudhari  
Principal

Principal  
Priyadarshini Bhagwati College of Engineering  
Umred



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbag), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email : principalpbcoe@gmail.com, Website: www.pbce.ltjss.net



### Innovation Cell

Ref No.: PBCOE/ADMIN/2022-23/317-G


Date: 22/07/2022

#### OFFICE ORDER

The constitution student coordinator of Innovation Cell for session 2022-2023 is as follows

Sr. No.	Name of Student	Designation	Semester	Department
1	Kajal Sonkusre	President	7 <sup>th</sup> SEM	IT
2	Nihal Pise	Vice President	5 <sup>th</sup> SEM	Mech
3	Haneef Syed	Secretary	5 <sup>th</sup> SEM	CSE
4	Prachiti Hole	Treasurer	5 <sup>th</sup> SEM	IT
5	Harshal Jaiswal	I/C Event Management	5 <sup>th</sup> SEM	CSE
6	Divyani Jabalpure	I/C Publicity	3 <sup>rd</sup> SEM	CSE
7	Ishwar Choudhari	Member	5 <sup>th</sup> SEM	Mech
8	Rubel Pakalwar	Member	7 <sup>th</sup> SEM	Mech
9	Sahil Pathan	Member	5 <sup>th</sup> SEM	CSE
10	Sahil Kekatpure	Member	5 <sup>th</sup> SEM	Mech
11	Nikhil Pokale	Member	5 <sup>th</sup> SEM	Mech
12	Rugveda Dhok	Member	5 <sup>th</sup> SEM	CSE
13	Ayushi Ingole	Member	3 <sup>rd</sup> SEM	CSE
14	Anant Jain	Member	3 <sup>rd</sup> SEM	IT
15	Piyush Gondane	Member	3 <sup>rd</sup> SEM	Mech

  
Ms. U. V. Gaikwad  
Innovation Cell In-Charge

  
Dr. N. K. Choudhari  
Principal

Principal  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.

Academic  
Calendar of RTM  
Nagpur  
University



## **RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016(Maharashtra. Act No. VI of 2017)

(Academic Section)

Shri Chatrapati Shivaji Maharaj Administrative Premises, Maharajbagh Chowk, Civil Lines, Nagpur -01

Tel No.: 0712- 2532063

Fax No. 0712- 2532841, 2561347

No. Acad. /Acad .Cale. /2018/ **571**

Date: 26 April, 2018

### **NOTIFICATION**

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar **for the session 2018-19 will be as under:**

#### **A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2018-19.**

##### **1. Terms & Vacation**

First Term (Odd semesters)	:	15.06.2018 to 17.10.2018
Diwali Holidays / Winter Vacation	:	18.10.2018 to 17.11.2018
Second Term (Even semesters)	:	19.11.2018 to 30.04.2019
Summer Vacation	:	01.05.2019 to <b>14.06.2019</b>

##### **2. Admissions\***

a) Last date of Admission (First term odd sem)	:	<b>6<sup>th</sup> August, 2018</b>
b) Last date for Admission with prior permission of the Vice-Chancellor	:	<b>6<sup>th</sup> September, 2018</b>

##### **3. Last date of submission of Enrolment forms to the university**

: Within fifteen days from the last notified date of Admission

##### **4. Examination**

###### **1. Winter Examinations.**

Commencement of Exam.

a) Regular students in odd semesters	:	18.10.2018
b) Failure Student in even semesters	:	03.10.2018

###### **2. Last date for receipt of exams. forms**

a) Regular students	:	31.8.2018
<b>(for admissions other than 1st year)</b>		
b) Old Ex-Students & External Students	:	15.5.2018
c) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer Exams.

###### **1. Summer Exams.**

Commencement of Exams.

a) Regular Even semester	:	12.03.2019
b) Failure of odd semester	:	20.02.2019

###### **2. Last date for receipt of exams. Forms**

a) Regular Students	:	15.01.2019
b) Old Ex-Students & External Students	:	15.10.2018
c) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.

##### **5. Declaration of Results**

: As per governing provisions of the Act.

#### **B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2018-19.**

##### **1. Terms & Vacation**

First Term :	:	15.06.2018 to 17.10.2018
Winter Vacation	:	18.10.2018 to 17.11.2018
Second Term	:	19.11.2018 to 30.04.2019
Summer Vacation	:	01.05.2019 to <b>14.06.2019</b>

##### **2. Admissions\***

a) Last date of Admission	:	<b>6<sup>th</sup> August, 2018</b>
b) Last date for Admission with prior permission of the Vice-Chancellor	:	<b>6<sup>th</sup> September, 2018</b>

- 3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.
- 4. Examination**
- Winter Examinations.**
1. Commencement of Exam. : 03 .10.2018
2. **Last date for receipt of exams. forms**
- a) Regular Students : 16.07.2018
- b) External Students : 15.05.2018
- c) Old Ex-Students : 15.05.2018
- d) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer exam
- Summer Exams.**
1. Commencement of Exams. : 20.02.2019
2. **Last date for receipt of exams. forms**
- a) Regular Students : 01.12.2018
- b) Old Ex-Students : 15.10.2018
- c) External Students : 15.10.2018
- d) Ex-Students of immediately previous exam. : Within 15 days from the date of declaration of the result of winter exam
- 5. Declaration of Results** : As per governing provisions of the Act.

**Special Instructions :**

- 1) The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
- 2) Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
- 3) All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
- 4) Theory and Practical examinations may be held on Sunday with prior permission and intimation.
- 5) M. Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
- 6) It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
- 7) All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
- \* This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. Therefore, the last date for admissions in higher level semesters shall be 10 days after results of the qualifying examinations
- 8) The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
- 9) Admission governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 of 2010

By Order of the Hon'ble Vice- Chancellor

  
(Dr. Puranchandra Meshram)  
Registrar



# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Maharashtra Act No. VI of 2017))

(Academic Section)

Shri Chatrapati Shivaji Maharaj Administrative Premises, Maharajbagh Chowk, Civil Lines, Nagpur -01

Tel No.: 0712- 2532063

Fax No. 0712- 2532841, 2561347

No. Acad. /Acad. Cale. /2019/ 02

Date: 01 April, 2019

## NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2019-20 will be as under:

### A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2019-20.

#### 1. Terms & Vacation

First Term (Odd semesters)	:	15.06.2019 to 19.10.2019
Diwali Holidays / Winter Vacation	:	20.10.2019 to 19.11.2019
Second Term (Even semesters)	:	20.11.2019 to 30.04.2020
Summer Vacation	:	01.05.2020 to 14.06.2020

#### 2. Admissions\*

a) Last date of Admission (First term odd sem)	:	5 <sup>th</sup> August, 2019
b) Last date for Admission with prior permission of the Vice-Chancellor	:	4 <sup>th</sup> September, 2019

#### 3. Last date of submission of Enrolment forms to the university

: Within fifteen days from the last notified date of Admission

#### 4. Examination

##### 1. Winter Examinations.

Commencement of Exam.

a) Failure Students in even semesters	:	03.10.2019
b) Regular students in odd semesters	:	18.10.2019

##### 2. Last date for receipt of exams. forms

a) Regular students	:	31.8.2019
<b>(for admissions other than Ist year)</b>		
b) Old Ex-Students & External Students	:	15.5.2019
c) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer Exams.

##### 1. Summer Exams.

Commencement of Exams.

a) Failure of odd semester	:	22.02.2020
b) Regular Even semester	:	12.03.2020

##### 2. Last date for receipt of examinations forms

a) Regular Students	:	15.01.2020
b) Old Ex-Students & External Students	:	15.10.2019
c) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.

#### 5. Declaration of Results

: As per governing provisions of the Act.

### B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2019-20.

#### 1. Terms & Vacation

First Term :	:	15.06.2019 to 19.10.2019
Winter Vacation	:	20.10.2019 to 19.11.2019
Second Term	:	20.11.2019 to 30.04.2020
Summer Vacation	:	01.05.2020 to 14.06.2020

#### 2. Admissions\*

a) Last date of Admission	:	5 <sup>th</sup> August, 2019
b) Last date for Admission with prior permission of the Vice-Chancellor	:	4 <sup>th</sup> September, 2019



- 3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.
- 4. Examination**
- Winter Examinations.**
1. Commencement of Exam. : 03 .10.2019
2. **Last date for receipt of exams. forms**
- a) Regular Students : 16.07.2019
- b) External Students : 15.05.2019
- c) Old Ex-Students : 15.05.2019
- d) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer exam
- Summer Exams.**
1. Commencement of Exams. : 22.02.2020
2. **Last date for receipt of exams. forms**
- a) Regular Students : 01.12.2019
- b) Old Ex-Students : 15.10.2019
- c) External Students : 15.10.2019
- d) Ex-Students of immediately previous exam. : Within 15 days from the date of declaration of the result of winter exam
- 5. Declaration of Results** : As per governing provisions of the Act
- C) Convocation Winter 2018 & Summer 2019 : **December 2019**

**Special Instructions :**

- 1) The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
- 2) Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
- 3) All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
- 4) Theory and Practical examinations may be held on Sunday with prior permission and intimation.
- 5) M. Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
- 6) It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
- 7) All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
- \* This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. Therefore, the last date for admissions in higher level semesters shall be 10 days after results of the qualifying examinations
- 8) The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
- 9) Admission governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27of 2008 and 6 of 2010

By Order of the Hon'ble Vice- Chancellor



(Dr. Niraj Khaty)  
Registrar (Acting)

**Copy forwarded for information and necessary action to :-**

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Veena Prakash, Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.



(Dr. Anil Hirekhan)  
Deputy Registrar (Acad.)



## RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces Education Department by Notification No. 313, dated 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016/Maharashtra Act No VI of 2017)

(Academic Section)

Shri Chhatrapati Shivaji Maharaj Administrative Premises, Maharajbagh Chowk, Civil Lines, Nagpur -01

Tel No. 0712-2532063

Fax No. 0712-2532641, 2561347

No. Acad./Acad.Cale./2020/३७३

Date: 16<sup>th</sup> June, 2020

### NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2020-21 will be as under:

#### A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2020-21.

1. **Terms & Vacation**

First Term (Odd semesters)	:	01.08.2020	to	24.12.2020
Diwali Holidays /	:	10.11.2020	to	16.11.2020
Winter Vacation	:	25.12.2020	to	15.01.2021
Second Term (Even semesters)	:	16.01.2021	to	25.05.2021
Summer Vacation	:	26.05.2021	to	<b>25.06.2021</b>
2. **Admissions\***
  - a) Last date of Admission (First term odd sem) : | 15.09.2020 |  - b) Last date for Admission with prior permission of the Vice-Chancellor : | 30.09.2020 |
3. **Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.
4. **Examination**
  1. **Winter Examinations.**

Commencement of Exam.	:	
a) Failure Students in even semesters	:	20.11.2020
b) Regular students in odd semesters	:	17.12.2020
  2. **Last date for receipt of exams. forms**
    - a) Regular students : | 30.10.2020 ||  | : | **(for admissions other than 1st year)** |
| b) Old Ex-Students & External Students | : | 15.09.2020 |
| c) Ex-Students of immediately previous examination | : | Within 15 days from the date of declaration of the result of summer Exams. |
  1. **Summer Exams.**

Commencement of Exams.	:	
a) Failure of odd semester	:	22.03.2021
b) Regular Even semester	:	22.05.2021
  2. **Last date for receipt of examinations forms**
    - a) Regular Students : | 15.03.2021 || b) Old Ex-Students & External Students | : | 15.10.2020 |
| c) Ex-Students of immediately previous exam | : | Within 15 days from the date of declaration of the result of winter Exams. |
5. **Declaration of Results** : As per governing provisions of the Act.

#### B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2020-21.

1. **Terms & Vacation**

First Term (Odd semesters)	:	01.08.2020	to	24.12.2020
Diwali Holidays /	:	10.11.2020	to	16.11.2020
Winter Vacation	:	25.12.2020	to	15.01.2021
Second Term (Even semesters)	:	16.01.2021	to	25.05.2021
Summer Vacation	:	<b>26.05.2021</b>	to	<b>25.06.2021</b>
2. **Admissions\***
  - a) Last date of Admission : | **15.09.2020** |  - b) Last date for Admission with prior permission of the Vice-Chancellor : | **30.09.2020** |


<b>3. Last date of submission of Enrolment forms to the university</b>	: 2 :	Within fifteen days from the last notified date of Admission.
<b>4. Examination</b>		
<b>Winter Examinations.</b>		
1. Commencement of Exam	:	20.11.2020
2. <b>Last date for receipt of exams. forms</b>	:	
a) Regular Students	:	30.10.2020
b) External Students	:	15.09.2020
c) Old Ex-Students	:	15.09.2020
d) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer exam
<b>Summer Exams.</b>		
1. Commencement of Exams	:	22.03.2021
2. <b>Last date for receipt of exams. forms</b>	:	
a) Regular Students	:	15.03.2021
b) Old Ex-Students	:	15.10.2020
c) External Students	:	15.10.2020
d) Ex-Students of immediately previous exam.	:	Within 15 days from the date of declaration of the result of winter exam
<b>5. Declaration of Results</b>	:	As per governing provisions of the Act.
C) Convocation Winter 2019 & Summer 2020	:	<b>December 2020</b>

**Special Instructions :**

- 1) The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
- 2) Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
- 3) All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
- 4) Theory and Practical examinations may be held on Sunday with prior permission and intimation.
- 5) M. Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
- 6) It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
- 7) All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
- This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. Therefore, the last date for admissions in higher level semesters shall be 10 days after results of the qualifying examinations.
- 8) The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
- 9) Admission governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 of 2010.

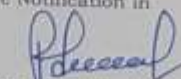
**10 Special Note:-** The Academic Council resolved that the Hon'ble Vice-Chancellor is authorized to take appropriate action regarding Academic Calendar as per guidelines to be issued by the Maharashtra Government time to time in view of the COVID-19 pandemic.

By Order of the Hon'ble Vice- Chancellor

  
(Dr. Niraj Khate)  
Registrar (Acting)

**Copy forwarded for information and necessary action to :-**

1. Deputy Registrar office of the Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Veena Prakash, Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

  
(Dr. Anil Hirekhan)  
Deputy Registrar (Acad.)



## **RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Maharashtra Act No VI of 2017)  
(Academic Section)

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jannalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad. /Acad. Cale. /2021/45

Date: 25<sup>th</sup> June 2021

### **NOTIFICATION**

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2021-22 will be as under:

#### **A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2021-22.**

##### **1. Terms & Vacation**

First Term (Odd semesters) = U.G.	:	02.08.2021 to 30.11.2021
First Term (Odd semesters) = P.G.	:	30.08.2021 to 24.12.2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term (Even semesters) = U.G.	:	10.01.2022 to 07.05.2022
Second Term (Even semesters) = P.G.	:	10.01.2022 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022

##### **2. Admissions\***

a) Last date of Admission (First sem) U.G & PG	:	To be notified separately
b) Last date of Admission other than 1 <sup>st</sup> sem. U.G & PG	:	20 <sup>th</sup> September 2021
c) Last date for Admission with prior permission of the Vice-Chancellor	:	20 <sup>th</sup> October 2021

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission

##### **4. Examination**

###### **A. Winter Examinations.**

###### **1. Commencement of Exam.**

a) Failure Students in even semesters = U.G	:	15 <sup>th</sup> November 2021
b) Failure Students in even semesters = P.G	:	13 <sup>th</sup> December 2021
c) Regular students in odd semesters = U.G	:	1 <sup>st</sup> December 2021
d) Regular students in odd semesters = P.G	:	27 <sup>th</sup> December 2021

###### **2. Last date for receipt of exams. forms**

a) Regular students = U.G & PG	:	Within one month from the last date of admission
b) Old Ex-Students & External Students	:	15 <sup>th</sup> September 2021
c) Ex-Students of immediately previous examination = U.G & PG	:	Within 15 days from the date of declaration of the result of summer Exams.

###### **B. Summer Exams.**

###### **1. Commencement of Exams.**

a) Failure of odd semester = U.G & P.G	:	25 <sup>th</sup> April 2022
b) Regular Even semester = U.G	:	9 <sup>th</sup> May 2022
c) Regular Even semester = P.G	:	9 <sup>th</sup> May 2022

###### **2. Last date for receipt of examinations forms**

a) Regular Students	:	1 <sup>st</sup> March 2022
b) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.
c) Old Ex-Students & External Students	:	15 <sup>th</sup> October 2021

**5. Declaration of Results** : As per governing provisions of the Act.

**B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2021-22.**

**1. Terms & Vacation**

First Term	:	02.08..2021 to 30.10. 2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term	:	11.11.2021 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022

**2. Admissions\***

a) Last date of Admission	:	<b>To be notified separately</b>
b) Last date for Admission with prior Permission of the Vice-Chancellor	:	<b>To be notified separately</b>

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.

**5. Examination**

**Winter Examinations.**

1. Commencement of Exam.	:	15 <sup>th</sup> November 2021
2. Last date for receipt of exams. forms	:	
a) Regular Students	:	30 <sup>th</sup> October 2021
b) External Students	:	15 <sup>th</sup> September 2021
c) Old Ex-Students	:	15 <sup>th</sup> September 2021
d) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer exam

**Summer Exams.**

1. Commencement of Exams.	:	9 <sup>th</sup> May 2022
2. Last date for receipt of exams. forms	:	
a) Regular Students	:	15 <sup>th</sup> March 2022
b) Old Ex-Students	:	15 <sup>th</sup> October 2021
c) External Students	:	15 <sup>th</sup> October 2021
d) Ex-Students of immediately previous exam.	:	Within 15 days from the date of declaration of the result of winter exam

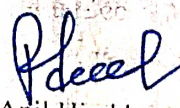
**5. Declaration of Results** : As per governing provisions of the Act.

**C) Convocation Winter 2020 & Summer 2021** : **December 2021**

**Special Instructions :**

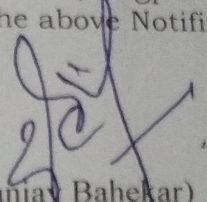
1. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
2. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
3. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year
4. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
5. M. Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
6. **Due to pandemic situation, majority of teaching activities are taking place in online mode. Hence, Sundays may be treated as teaching days.**
7. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
8. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
9. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process.
10. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
11. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
12. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 Of 2010.
13. **Special Note:**  
Owing to the Pandemic situation, there is a possibility that this Academic Calendar may require changes during its course of implementation in accordance with the norms and guidelines issued by the Government and other regulating bodies. In view of this, the Academic Council authorizes Hon'ble Vice-Chancellor to make necessary amendments and modifications in this Academic Calendar.

By Order of the Hon'ble Vice- Chancellor

  
(Dr. Anil Hirekhan)  
Registrar

**Copy forwarded for information and necessary action to :-**

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr.Veena Prakashe, Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

  
(Sanjay Bahekar)

Deputy Registrar (Acad.)(Ad.Ch.)



## RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Maharashtra, Act No. VI of 2017)

(Academic Section)

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jannalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad. / Acad. Cale. / 2022/568

Date: 17/10/2022

### REVISED NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2022-23 will be as under:

#### A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2022-23.

##### 1. Terms & Vacation

First Term (Odd semesters)	:	23.06.2022 to 23.11.2022
Diwali Holidays	:	20.10.2022 to 29.10.2022
Winter Vacation	:	24.11.2022 to 07.12.2022
Second Term (Even semesters)	:	08.12.2022 to 07.05.2023
(ISCA) Teaching Suspension for 108 <sup>th</sup> Indian Science Congress	:	02.01.2023 to 07.01.2023
Summer Vacation	:	08.05.2023 to 15.06.2023

##### 2. Admissions\*

a) Last date of Admission (First term odd sem)	:	1 <sup>st</sup> August, 2022
b) Last date for Admission with prior permission of the Vice-Chancellor	:	1 <sup>st</sup> September, 2022

3. Last date of submission of Enrolment forms to the university : Within fifteen days from the last notified date of Admission

##### 4. Examination

###### A. Winter Examinations.

###### 1. Commencement of Exam.

a) Failure Students in even semesters	:	03.10.2022
b) Regular students in odd semesters	:	21.11.2022

###### 2. Last date for receipt of exams. forms

a) Regular students	:	31.08.2022
<b>(for admission other than 1st year)</b>		
b) Old Ex-Students	:	16.05.2022
c) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer Exams.

###### B. Summer Exams.

###### 1. Commencement of Exams.

a) Failure of odd semester	:	15.03.2023
b) Regular Even semester	:	22.03.2023

###### 2. Last date for receipt of examinations forms

a) Regular Students	:	15.02.2023
b) Old Ex-Students	:	15.12.2022
c) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.

5. Declaration of Results : As per governing provisions of the Act.

#### B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2022-23.

##### 1. Terms & Vacation

First Term	:	23.06.2022 to 23.11.2022
Diwali Holidays	:	20.10.2022 to 29.10.2022
Winter Vacation	:	24.11.2022 to 07.12.2022
Second Term	:	08.12.2022 to 07.05.2023
Summer Vacation	:	08.05.2023 to 15.06.2023

(ISCA) Teaching Suspension for 108<sup>th</sup> Indian Science Congress : 02.01.2023 to 07.01.2023

**2. Admissions\***

- a) Last date of Admission : 1<sup>st</sup> August, 2022  
b) Last date for Admission with prior Permission of the Vice-Chancellor : 1<sup>st</sup> September, 2022

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.

**7. Examination**

**Winter Examinations.**

1. Commencement of Exam. : 03.10.2022  
2. Last date for receipt of exams. forms  
a) Old Ex-Students : 16.08.2022  
b) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer exam

**Summer Exams.**

1. Commencement of Exams. : 22.03.2023  
2. Last date for receipt of exams. forms  
a) Regular Students : 15.02.2023  
b) Old Ex-Students : 15.12.2022  
c) Ex-Students of immediately previous exam. : Within 15 days from the date of declaration of the result of winter exam

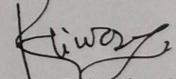
**5. Declaration of Results**

C) Convocation Winter 2021 & Summer 2022 : As per governing provisions of the Act. **December 2022**

**Special Instructions :**

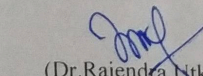
1. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
2. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
3. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year
4. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
5. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
6. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
7. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process.
8. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
9. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
10. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 of 2010.

By Order of the Hon'ble Vice- Chancellor

  
(Dr. Raju Hiwse)  
Registrar

**Copy forwarded for information and necessary action to :-**

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Prashant Maheswary, Dean & Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

  
(Dr. Rajendra Utkhede)  
Deputy Registrar (Acad.)



Academic  
Calendar of  
Institute

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
**HARPUR NAGAR, UMRER ROAD, NAGPUR**

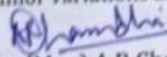
**Academic Calendar**


Academic Year 2022-23 ( Even Sem)  
 Sixth and Eighth Semester

Month	Dates	Event
January 2023 (06 Working days)	23 <sup>rd</sup>	Commencement of Classes
February 2023 (21 Working days)	21 <sup>st</sup> to 22 <sup>nd</sup>	Submission of Assignment I
	24 <sup>th</sup>	"Amrutum" -College Gathering
March 2023 (22 Working Days)	1 <sup>st</sup>	Display of Attendance for January and February
	2 <sup>nd</sup> to 8 <sup>th</sup>	Class Assessment Test I
	13 <sup>th</sup>	Result of Class Assessment Test I
	14 <sup>th</sup> to 18 <sup>th</sup>	Remedial Classes
	18 <sup>th</sup>	Parents Meet
	27 <sup>th</sup> to 28 <sup>th</sup>	Submission of Assignment II
April 2023 (23 Working Days)	1 <sup>st</sup> to 6 <sup>th</sup>	Class Assessment Test II
	3 <sup>rd</sup>	Display of Attendance for March
	10 <sup>th</sup>	Result of Class Assessment Test II
	11 <sup>th</sup> to 15 <sup>th</sup>	Remedial Classes
	15 <sup>th</sup>	Evaluation of students projects by experts
	19 <sup>th</sup> to 24 <sup>th</sup>	Internal Practical Exam.
	24 <sup>th</sup>	Conclusion of class room teaching
	25 <sup>th</sup> to 29 <sup>th</sup>	Sessional Exam
May 2023 (23 Working Days)	2 <sup>nd</sup>	Display of Attendance for April
	2 <sup>nd</sup> to 6 <sup>th</sup>	Crash Course
	2 <sup>nd</sup> week	Commencement of University Exam
	4 <sup>th</sup> week	Academic Audit

**Notes:**

1. It is the responsibility of HoD to ensure the implementation of academic calendar in true spirit.
2. Time slot for remedial classes will be 9am to 10am and 5.00 pm to 6.00pm.
3. Technical activities like seminar/ expert lecture/ workshop/ aptitude test and Extra curricular activities like cultural, sports etc will be conducted on Saturdays from 3.00 pm to 5.00pm.
4. CAT I will be on I/II units , CAT II will be on III/IV units and Sessional exam will be on complete syllabus and will be as per University exam pattern.
5. It is the responsibility of Head and subject teacher to ensure that student should have minimum 75% attendance to appear for CAT I, CAT II and sessional examination. The head/class Incharge should communicate the parents of students having attendance less than 75%
6. During the semester certificate courses, add on courses, guest/expert lectures should be organized in the department as per the requirement.
7. Special efforts should be taken for advanced learners and slow learners at department level.
8. University Examination dates are subject to change.
9. Minor variations are permissible as per the requirements of program.

  
 Dr. (Mrs.) A.R. Chaudhari  
 Dean Academics & IQAC coordinator

  
 Dr. N.K. Choudhari  
 Principal  
 Priyadarshini Bhagwati College of Engg.  
 Harpur Nagar, Nagpur

**Copy to**  
 All Heads ( CSE, IT, EC, ME, Civil), coordinator B.E.first year, T & P coordinator, Admin office for information and necessary action

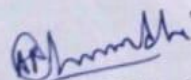
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
**HARPUR NAGAR, UMRER ROAD, NAGPUR**

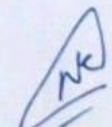
**Academic Calendar**  
 Academic Year 2022-23 ( Even Sem)  
 Fourth Semester

Month	Dates	Event
March 2023 (21 Working Days)	2 <sup>nd</sup>	Commencement of classes
April 2023 (23 Working Days)	1 <sup>st</sup> and 3 <sup>rd</sup>	Submission of Assignment I
	3 <sup>rd</sup>	Display of Attendance for March
	5 <sup>th</sup> to 11 <sup>th</sup>	Class Assessment Test I
	15 <sup>th</sup>	Result of Class Assessment Test I
	15 <sup>th</sup>	Parents meet
	17 <sup>th</sup> to 21 <sup>st</sup>	Remedial Classes
May 2023 (23 Working Days)	2 <sup>nd</sup> and 3 <sup>rd</sup>	Submission of Assignment II
	3 <sup>rd</sup>	Display of Attendance for April
	4 <sup>th</sup> to 10 <sup>th</sup>	Class Assessment Test II
	15 <sup>th</sup>	Result of Class Assessment Test II
	16 <sup>th</sup> to 20 <sup>th</sup>	Remedial Classes
	31 <sup>st</sup> May to 3 <sup>rd</sup> June	Internal Practical Exam.
June 2023 ( 11 Working Days)	2 <sup>nd</sup>	Display of Attendance for May
	3 <sup>rd</sup>	Conclusion of class room teaching
	5 <sup>th</sup> to 9 <sup>th</sup>	Sessional Exam
	12 <sup>th</sup> to 14 <sup>th</sup>	Crash Course
	3 <sup>rd</sup> week	Commencement of University Exam
	4 <sup>th</sup> week	Academic Audit

**Notes:**

1. It is the responsibility of HoD to ensure the implementation of academic calendar in true spirit.
2. Time slot for remedial classes will be 9am to 10am and 5.00 pm to 6.00pm.
3. Technical activities like seminar/ expert lecture/ workshop/ aptitude test and Extra curricular activities like cultural, sports etc will be conducted on Saturdays from 3.00 pm to 5.00pm.
4. CAT I will be on I/II units, CAT II will be on III/IV units and Sessional exam will be on complete syllabus and will be as per University exam pattern.
5. It is the responsibility of Head and subject teacher to ensure that student should have minimum 75% attendance to appear for CAT I, CAT II and sessional examination. The head/class Incharge should communicate the parents of students having attendance less than 75%
6. During the semester certificate courses, add on courses, guest/expert lectures should be organized in the department as per the requirement.
7. Special efforts should be taken for advanced learners and slow learners at department level.
8. University Examination dates are subject to change.
9. Minor variations are permissible as per the requirements of program.

  
 Dr. (Mrs.) A.R. Chaudhari  
 Dean Academics & IQAC coordinator

  
 Dr. N.K. Choudhari  
 Principal

**Copy to**  
 All Heads ( CSE, IT, EC, ME, Civil), coordinator B.E. first year, T & P coordinator, librarian, Admin  
 office for information and necessary action

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
HARPUR NAGAR, UMRER ROAD, NAGPUR

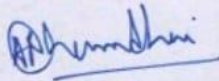
**Academic Calendar**  
Academic Year 2022-23  
Odd Semester ( 5<sup>th</sup> and 7<sup>th</sup> )

Month	Dates	Event
August 2022 (21 working Days)	1 <sup>st</sup>	Commencement of Classes
	1 <sup>st</sup>	Lokmanya Tilak Punyatithi
	2 <sup>nd</sup> week	Final Year project topic submission
	15 <sup>th</sup>	Independance day
September 2022 (24 Working Days)	1 <sup>st</sup> & 2 <sup>nd</sup>	Submission of Assignment I
	2 <sup>nd</sup>	Display of Attendance for August
	5 <sup>th</sup> to 10 <sup>th</sup>	Class Assessment Test I
	15 <sup>th</sup>	Result of Class Assessment Test I
	15 <sup>th</sup>	Engineer's day
	16 <sup>th</sup> to 21 <sup>st</sup>	Remedial Classes
	17 <sup>th</sup>	Parents Meet.
	3 <sup>rd</sup> /4 <sup>th</sup> week	Installation of Student Forum
	3 <sup>rd</sup> week	Final Year project Evaluation - Phase I
	28 <sup>th</sup> to 29 <sup>th</sup>	Submission of Assignment II
October 2022 (15 Working Days)	30 <sup>th</sup>	Laxminarayan Day
	3 <sup>rd</sup>	Display of Attendance for September
	3 <sup>rd</sup> to 8 <sup>th</sup>	Class Assessment Test II
	10 <sup>th</sup>	Founder's day
	13 <sup>th</sup>	Result of Class Assessment Test II
	14 <sup>th</sup> to 18 <sup>th</sup>	Remedial Classes
	3 <sup>rd</sup> week	Final Year project Evaluation - Phase II
November 2022 (20 Working Days)	20 <sup>th</sup> to 29 <sup>th</sup>	Diwali holidays
	2 <sup>nd</sup>	Display of Attendance for October
	9 <sup>th</sup> to 15 <sup>th</sup>	Internal Practical Exam.
	15 <sup>th</sup>	Conclusion of class room teaching
	16 <sup>th</sup> to 22 <sup>nd</sup>	Sessional Exam
	23 <sup>rd</sup> to 26 <sup>th</sup>	Crash Course
December 2022	5 <sup>th</sup> week	Commencement of University Exam
	1 <sup>st</sup> week	Academic Audit of all departments

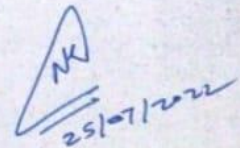
**Notes:**

1. It is the responsibility of HoD to ensure the implementation of academic calendar in true spirit.
2. Time slot for remedial classes will be 9.00 am to 10.00 am and 5.00 pm to 6.00pm.
3. Technical activities like seminar/ expert lecture/ workshop/ aptitude test and Extra curricular activities like cultural, sports etc will be conducted on Saturdays from 3.00 pm to 5.00pm.
4. CAT I will be on first two units , CAT II will be on next two units and Sessional exam will be on complete syllabus and will be as per University exam pattern.
5. CAT I and CAT II will be conducted in in the zeroth lecture at college level.

6. It is the responsibility of Head and subject teacher to ensure that student should have minimum 75% attendance to appear for CAT I, CAT II and sessional examination. The head/class Incharge should communicate the parents of students having attendance less than 75%
7. During the semester certificate courses, add on courses, guest/expert lectures, value added programs should be organized in the department as per the requirement.
8. Special efforts should be taken for advanced learners and slow learners at department level.
9. University Examination dates are subject to change.
10. Minor variations are permissible as per the requirements of program.



Dr. (Mrs.) A.R. Chaudhari  
Dean Academics & IQAC coordinator



Dr. N.K. Choudhari

Principal  
Principal

Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.

**Copy to**

All Heads ( CSE, IT, EC, ME, Civil), coordinator first year, T & P coordinator, librarian, Admin office  
for information and necessary action

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
**HARPUR NAGAR, UMRER ROAD, NAGPUR**

**Academic Calendar**  
 Academic Year 2022-23  
 Odd Semester ( 3<sup>rd</sup> Sem )

Month	Dates	Event
August 2022 (7 working Days)	22 <sup>nd</sup>	Commencement of Classes
September 2022 (24 Working Days)	15 <sup>th</sup>	Engineer's day
	3 <sup>rd</sup> /4 <sup>th</sup> week	Installation of Student Forum
	20 <sup>th</sup> and 21 <sup>st</sup>	Submission of Assignment I
	23 <sup>rd</sup> to 29 <sup>th</sup>	Class Assessment Test I
	30 <sup>th</sup>	Laxminarayan Day
October 2022 (15 Working Days)	3 <sup>rd</sup>	Display of Attendance for September
	6 <sup>th</sup>	Result of Class Assessment Test I
	7 <sup>th</sup> to 12 <sup>th</sup>	Remedial Classes
	10 <sup>th</sup>	Founder's day
	15 <sup>th</sup>	Parents Meet
	18 <sup>th</sup> to 19 <sup>th</sup>	Submission of Assignment II
	20 <sup>th</sup> to 29 <sup>th</sup>	Diwali holidays
November 2022 (23 Working Days)	1 <sup>st</sup> to 5 <sup>th</sup>	Class Assessment Test II
	2 <sup>nd</sup>	Display of Attendance for October
	10 <sup>th</sup>	Result of Class Assessment Test II
	11 <sup>th</sup> to 16 <sup>th</sup>	Remedial Classes
	25 <sup>th</sup> to 30 <sup>th</sup>	Internal Practical Exam.
	30 <sup>th</sup>	Conclusion of class room teaching
December 2022 (8 Working Days)	1 <sup>st</sup> to 6 <sup>th</sup>	Sessional Exam
	7 <sup>th</sup> to 9 <sup>th</sup>	Crash Course
	3 <sup>rd</sup> week	Commencement of University Exam
	4 <sup>th</sup> week	Academic audit

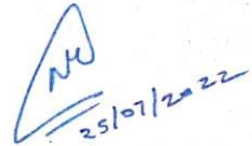
**Notes:**

1. It is the responsibility of HoD to ensure the implementation of academic calendar in true spirit.
2. Time slot for remedial classes will be 9am to 10am and 5.00 pm to 6.00pm.
3. Technical activities like seminar/ expert lecture/ workshop/ aptitude test and Extra curricular activities like cultural, sports etc will be conducted on Saturdays from 3.30 pm to 5.30pm.
4. CAT I will be on first two units , CAT II will be on next two units and Sessional exam will be on complete syllabus and will be as per University exam pattern.
5. CAT I and CAT II will be conducted in in the zeroth lecture at college level.
6. It is the responsibility of Head and subject teacher to ensure that student should have minimum 75% attendance to appear for CATI, CAT II and sessional examination. The head/class Incharge should communicate the parents of students having attendance less than 75%

7. During the semester certificate courses, add on courses, guest/expert lectures, VET programs should be organized in the department as per the requirement.
8. Special efforts should be taken for advanced learners and slow learners at department level.
9. University Examination dates are subject to change.
10. Minor variations are permissible as per the requirements of program.



Dr. (Mrs.) A.R. Chaudhari  
Dean Academics & IQAC coordinator



Dr. N.K. Choudhari  
Principal

**Copy to**

All Heads ( CSE, IT, EC, ME, Civil), coordinator first year, T &P coordinator, librarian, Admin office for information and necessary action

# Time Table & Work Load



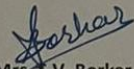
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

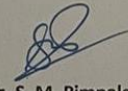
**Department of Mechanical Engineering**  
Academic session 2022-23 (Odd semester)

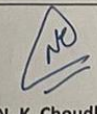
TIME TABLE

W. E. F. 22/08/2022 (III, V & VII Semester)

Time → Day ↓	Sem	10:30 to 11:30	11:30to 12:30	12:30 to 1:30	1:30 to 2:00	2:00 to 3:00	3:00 to 4:00	4:00 to 5:00
MON	III	MP(SMP)	ET(SPD)	M-III(JVD)	R E C E S S	KOM(RKP)/ ET(SPD) (TU)	LIBRARY	---
	V	IEM(MRM)	AE/OEB & D (ADA/RKP)	EC-I(ABG)		DME(SGG)	HT(SPD)	EC-I(ABG)/ DME(SGG) (TU)
	VII	IE(ABG)	EC-II(SVB)	ELECT-I (SGG/MRM)		CAD(KDG)/EC-II (SVB) (TU)	EC-II (SVB)/CAD( KDG)	
TUE	III	M-III (JVD)	ET(SPD)	MP(SMP)		MP(SPD)/MD & SM(ADA)/ CP(KDG)	LIBRARY	
	V	IEM(MRM)	EC-I(ABG)	AE/OEB & D (ADA/RKP)		DME(SGG)	LIBRARY	---
	VII	DMD(SMP)	EC-II(SVB)/ CAD(KDG) (TU)	ELECT-I (SGG/MRM)		IE(ABG)	DMD (ABG)/ EC-II(SVB)	
WED	III	KOM(RKP)	M-III (JVD)	ET(SPD)		CP(KDG)/ MD & SM (ADA) (TU)	LIBRARY	---
	V	HT(SPD)	HT(SVB)/DME(SGG/RKP)/ IV			HT(SPD) (TU)	DME(SGG)/ EC-I (ABG) (TU)	LIBRARY
	VII	ELECT-I (SGG/MRM)	CAD(KDG)	DMD(SMP)		IE(ABG)	CAD(KDG)/DMD(SMP)	
THU	III	KOM(RKP)	MD & SM (ADA)/ CP(KDG) (TU)	MP(SMP)	M-III (JVD) (TU)	MD & SM(ADA)/ CP(KDG)/MP(SPD)		
	V	DME(SGG)	EC-I(ABG)	AE/OEB & D (ADA/RKP)	DME(SGG/RKP)/IV/ HT(SVB)		LIBRARY	
	VII	CAD(KDG)	EC-II(SVB)	ELECT-I (SGG/MRM)	DMD(SMP)	IE(ABG)/ DMD(SMP) (TU)	LIBRARY	
FRI	III	KOM(RKP)	M-III (JVD) (TU)	ET(SPD)/KOM (RKP) (TU)	CP(KDG)/MP(SPD)/ MD & SM(ADA)		LIBRARY	
	V	HT(SPD)	DME(SGG)	IEM(MRM)	IV/HT(SVB)/ DME(SGG/RKP)		HT(SPD) (TU)	
	VII	EC-II(SVB)	DMD (SMP)/ IE(ABG) (TU)	CAD(KDG)	ELECT-I (SGG/MRM) (TU)	LIBRARY	---	
SAT	III	SPORTS/NSS				FORUM ACTIVITY		
	V	PERFORMING ART				FORUM ACTIVITY		
	VII	PROJECT DISCUSSION				FORUM ACTIVITY		

  
Mrs. S.V. Borkar  
I/C Time Table

  
Mr. S. M. Pimpalgaonkar  
Head of Dept.

  
Dr. N. K. Choudhari  
Principal

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR  
 Department of B. Tech. First Year  
 TIME TABLE B. Tech. I Semester (Session 2022-23)

05/12/2022

Time Day	Section	9.00 am to 10.00 am	10.00 am to 11:00 am	11:00 am to 12:00 pm	12.00 pm to 1.00 pm	1.00 to 1.30 pm	1.30 pm to 2.30 pm	2.30 pm to 3.30 pm	3.30 pm to 4.30 pm	4.30 pm to 6.30 pm	
MON	A		M I (SRS)	E&En (ARC)	AP (UVG)	← AP (Pr) (A1, A2, A3) →					
	B		CS (VMA)	M I (JVD)	E & En (ACH)	← E & En (Pr) ( B1 ) →					
	C		AP (SGR)	E & En (Pr) ( C1 )		← CS(Pr) ( B2-B3) →					
	D	← EG (Pr)(D1, D2, D3) →									
	E	Room no G4	E& En (ACH)	M I (RVH)	CS (VMA)	M I (SRS) E&En (RAN) EG (RKB)					
TUE	A		BCME (AMS)	M I (SRS)	E & En (ARC)	← E & En (Pr) ( A1 ) →					
	B		E&En(ACH)	BCME (AMS)	AP (UVG)	← CS(Pr) ( A2-A3) →					
	C	← EG (Pr)(C1, C2, C3) →									
	D		M I (RVH)	E&En (RAN)	AP (SGR)	M I (RVH) AP (SGR) BCME(AMS)					
	E	Room no G3	AP (MDB)	← E & En (Pr) ( E1 ) →		BCME (AMS) EG (ANP) BCME (SPG) Room no G1					
WED	A		CS (VMA)	EG (ANP)	AP (UVG)	← CS(Pr) ( E2-E3) →					
	B		M I (JVD)	AP (UVG)	E&En (ACH)	M I (SRS) E & En (Pr)(A2-A3)					
	C		E&En(RAN)	BCME(SPG)	M I (SRS)	← AP (Pr) (B1, B2, B3) →					
	D		BCME(SPG)	← E & En (Pr) ( D1 ) →		CS (RG) E&En (RAN) M I (SRS)					
	E	Room no G6	M I (RVH)	E &En (ACH)	AP (MDB)	← AP (Pr) (D1, D2, D3) →					
THU	A		M I (SRS)	E & En (ARC)	AP (UVG)	CS (VMA) M I (RVH) E&En (ACH) Room no G4					
	B		AP (UVG)	M I (JVD)	CS (VMA)	M I (SRS) E & En (Pr)(A2-A3)					
	C		BCME (SPG)	E & En (Pr) ( C2-C3 )		← CS(Pr) ( C1 ) →					
	D		E&En (RAN)	EG (RKB)	BCME(SPG)	M I (SRS) E & En (Pr)(A2-A3)					
	E	← AP (Pr) (E1, E2, E3) →									
FRI	A		AP (UVG)	E &En (ARC)	CS (VMA)	← EG (Pr)(A1, A2, A3) →					
	B		BCME (AMS)	M I (JVD)	AP (UVG)	E & En (ACH) E& En (Pr) (B2-B3 )					
	C	← AP (Pr) (C1, C2, C3) →									
	D		CS (VMA)	E&En (RAN)	M I (RVH)	← CS(Pr) ( B1 ) →					
	E	Room no G3	BCME(SPG)	E & En (Pr) ( E2-E3 )		AP (SGR) BCME (AMS) M I (SRS)					
SAT	A		M I (SRS)	AP (UVG)	E &En (ARC)	CS (VMA) AP (SGR) M I (RVH)					
	B		E&En (ACH)	M I (JVD)	CS (VMA)	M I (RVH) AP (MDB) BCME (AMS) Room no G1					
	C		AP (SGR)	CS (RG)	E&En (RAN)	BCME (AMS) M I (SRS) BCME(SPG)					
	D		CS (VMA)	E&En (RAN)	M I (RVH)	← EG (Pr)(B1, B2, B3) →					
	E		M I (RVH)	EG (ANP)	E&En (ACH)	E&En (RAN) AP (SGR) M I (SRS)					

R E C E S S

*Ms. A.M. Sorte*  
 Ms. A.M. Sorte  
 I/C Time Table

*Dr. (Mrs.) A. R. Chaudhari*  
 Dr. (Mrs.) A. R. Chaudhari  
 Co-ordinator B. Tech. First Year

*Dr. N. K. Choudhari*  
 Dr. N. K. Choudhari  
 Principal

**Lokmanya Tilak Jankalyan Shikshan Sanstha**  
**Office of the Dean Academics, Planning & Development**

Teaching Load (As per Scheme)

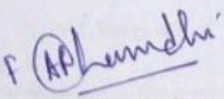
SESSION (2022-23)-ODD SEM.


Name of the Institute: Priyadarshini Bhagwati College of Engineering, Nagpur

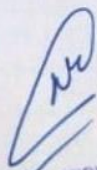
Department: Department of Electronics & Communication Engineering

Sr. No.	Name of Faculty	Subject/ Sem.	Dept.	Load			Total
				Th	Tu / A	Prac/Proj	
1	Dr.N.K.Choudhari	Project /Seminar (VII-Sem)	EC	-	-	2	02
1	Dr. (Ms) D.M. Kate	PEC-1: Sensor and System (V Sem)	EC	2	1	-	14
		Digital System Design (III-Sem)	EC	3	2	-	
		Advanced Image Processing (M.Tech I Sem)	EC	4	-	-	
		Project /Seminar (VII-Sem)	EC	-	-	2	
2	Dr. P.R. Bokde	Advanced Digital System Design (VII-Sem)	EC	4	1	-	16
		Electromagnetic Waves (V Sem)	EC	3	2	-	
		Components for Electronic Circuit Design (III Sem)	EC	-	-	6	
3	Dr. (Ms) S.B. Dhoble	PEC-1 : Electronic Design Technique with HDL (V Sem)	EC	2	1	-	14
		Digital Electronics & Fundamentals of Microprocessors (III-Sem)	IT	3	2	6	
4	Dr. P.N. Yerkewar	Optical Communication (VII-Sem)	EC	4	-	-	15
		Computer Architecture & Digital System (III-Sem)	CSE	3	2	-	
		Electronics Work Shop (V Sem)	EC	-	-	6	
5	Dr. P.M. Palkar (T&P Incharge)	Television and Video Engineering (VII-Sem)	EC	4	1	-	7
		Audit Course	EC	-	-	2	
6	Ms. P.V. Gawande	Measurement & Instrumentation (III-Sem)	EC	3	-	-	15
		Digital System Design (III-Sem)	EC	-	-	6	
		IEED : Economics	EC	2	2	-	
		DSP Processor and Architecture	EC	-	-	2	
		Digital Signal Processing (V Sem)	EC	3	2	6	

Sr. No.	Name of Faculty	Subject/ Sem.	Dept.	Load			Total
				Th	Tu / A	Prac/Proj	
7	Ms. S.S. Dhanvijay	Components for Electronic Circuit Design (III-Sem)	EC	3	-	-	14
		Digital Signal Processing (V Sem)	EC	3	2	6	
8	Mr. A.D. Landge	VLSI Signal Processing (VII-Sem)	EC	3	1		16
		CMOS VLSI (M.Tech I Sem)	EC	4			
		Electronics Workshop (III-Sem)	EC			6	
		Advanced Digital System Design (VII-Sem)	EC			2	
9	Mr. M.R.Gupta	Embedded System (V Sem)	EC	2	2	6	16
		Television and Video Engineering (VII Sem)	EC	-	-	2	
		Coding Theory and Techniques (M.Tech I Sem)	EC	4	-	-	
7	Ms. A.P. Thakare	DSP Processor & Architecture (VII-Sem)	EC	4	1	-	15
		Advanced Digital Communication (M.Tech.I-Sem)	EC	4	0	-	
		Foundation-II (M.Tech. III-Sem)	EC	4	-	-	
		Project /Seminar (M.Tech IV Sem)	EC			2	
11	Ms. T.U. Pathan	Signal & System	EC	3	-	-	15
		WSN (III Sem M.Tech)	EC	4	-	-	
		Advanced Optical Communication (M.Tech. I-Sem)	EC	4	-	2	
		Advanced Digital Communication (M.Tech.I-Sem)	EC		-	2	

  
Dean Academics/ Coordinator

  
H.O.D.

  
Principal  
Piyadarshini Bhagwati College of Engg.  
Umred Road Nagpur.

**Lokmanya Tilak Jankalyan Shikshan Sanstha**  
**Office of the Dean Academics, Planning & Development**

Load Calculation  
 Session 2022-23 (Even Semester)

Name of the Institute : Priyadarshini Bhagwati College of Engineering, Nagpur

Department : Electronics and Communication Engineering

Semester	No. of Students on Roll	No of Practical Batches	Subject	Section	Theory	Tutorial/Activity	Practical/Project	Total	Faculty Required
IV	71	3	M & A	A	3	2	06	11	
			ADC	A	3	2	00	05	
			ASD	A	3	2	00	05	
			ADE	A	0	0	06	06	
			PPS	A	2	0	12	14	
								<b>Total</b>	
VI	62	3	CCN	A	3	0	06	09	
			IoT	A	2	0	06	08	
			WSN	A	2	0	06	08	
			PEC-II(CAO)	A	2	2	0	04	
			OE-I(IE)	A	2	2	0	04	
			Miniproject (internship)	A	-	3	03	03	
								<b>Total</b>	
VIII	10	1	MRE	A	4	0	2	06	
			CCN	A	4	1	2	07	
			WMC	A	4	0	0	04	
			E-II	A	3	1	0	04	
			E-III	A	3	1	0	04	
			Project	A	0	0	12	12	
								<b>Total</b>	
Other Department Load									
<b>Grand Total</b>								<b>114</b>	

First year load (if any)

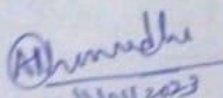
Semester	No. Of Students on Roll	No of Practical Batches	Subject	Section	Theory	Tut	Practical	Total	Faculty Required
I									
Total									

PG load (if any)

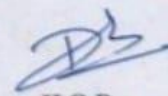
Semester	No. Of Students on Roll	No of Practical Batches	Subject	Theory	Tut	Practical	Total	Faculty Required
II	3	1	SAS	4	0	0	04	
			HPCN	4	0	2	06	
			WCN	4	0	2	06	
			E-II	4	0	0	04	
			F-I	4	0	0	04	
			Total					
IV	1	1	PROJECT	0	0	16	16	
			Total					
Total								40

Total Faculty Required (As per Teaching Load) =  $154/18 = 8.4 = 9$  (approx..)

Total Faculty Available: 10

  
11/04/2023  
Dean Academics/Coordinator

  
Principal  
Pryadarshini Bhagwati College of Engg.  
Umroli Road, Nagpur

  
H.O.D.

# Structure of Curriculum

## Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

### Four Years B.E. Course

Scheme of Examination B.E. First year ( All Branches of Engineering)

#### First Semester

Sub Code	Subjects	Workload in hrs			Credits	Marks					Minimum Passing Marks	
		L	T/A	P		Theory		Practical		Total	Theory	Practical
						Internal	Uni	Internal	Uni			
BSE1-1T	Mathematics-I	3	1	-	4	30	70	-	-	100	45	-
BSE1-2T	Applied Physics	3	2	-	4	30	70	-	-	100	45	-
BSE1-3T	Energy and Environment	2	2	-	3	30	70	-	-	100	45	-
BSE1-4T	Communication Skills	2	-	-	2	15	35	-	-	50	23	-
BSE1-5T	Engineering Graphics	1	-	-	1	15	35	-	-	50	23	-
BSE1-6T	Basics of Civil & Mechanical Engineering	4			Audit	50	-	-		Audit	-	-
BSE1-2P	Applied Physics Lab	-	-	3	1.5			25	25	50	-	25
BSE1-3P	Energy and Environment Lab	-	-	2	1			25	25	50	-	25
BSE1-4P	Communication Skills Lab	-	-	2	1			25	25	50	-	25
BSE1-5P	Engineering Graphics Lab	-	-	4	2			25	25	50	-	25
Three weeks Induction Program												
<b>Total</b>		<b>15</b>	<b>11</b>		<b>19.5</b>	<b>120*</b>	<b>280</b>	<b>100</b>	<b>100</b>	<b>600</b>		

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

#### Second Semester

Sub Code	Subjects	Workload in hrs			Credits	Marks					Minimum Passing Marks	
		L	T/A	P		Theory		Practical		Total	Theory	Practical
						Internal	Uni	Internal	Uni			
BSE2-1T	Mathematics-II	3	1	-	4	30	70	-	-	100	45	-
BSE2-2T	Advanced Engineering Materials	2	2	-	3	30	70	-	-	100	45	-
BSE2-3T	Applied Chemistry	3	2	-	4	30	70	-	-	100	45	-
BSE2-4T	Computational Skills	2	-	-	2	15	35	-	-	50	23	-
BSE2-6T	Basics of Electrical Engineering	2	-	-	2	15	35	-	-	50	23	-
BSE2-7T	Engineering Mechanics	2	-	-	2	15	35	-	-	50	23	-
BSE2-8T	Indian Culture & Constitution	2	-	-	Audit	50	-	-	-	Audit	-	-
BSE1-5P	Workshop Practices	-	-	4	2	-	-	50	50	100	-	50
BSE2-2P	Advanced Engineering Materials	-	-	2	1	-	-	25	25	50	-	25
BSE2-3P	Applied Chemistry			3	1.5	-	-	25	25	50	-	25
BSE2-4P	Computational Skills			2	1	-	-	25	25	50	-	25
Three weeks Induction Program												
<b>Total</b>		<b>16</b>	<b>5</b>	<b>11</b>	<b>22.5</b>	<b>135*</b>	<b>315</b>	<b>125</b>	<b>125</b>	<b>700</b>		

- L- Lecture , P-Practical, T- Tutorial, A- Activity (Half Credit per Hour)

\* Audit course marks are not counted in total marks

#### Guidelines

- Energy and Environment shall be taught by faculty of Chemistry and will come under board of Applied Science and Humanities (only by Chemistry)
- Advance Engineering Materials shall be taught by faculty of Physics and will come under board of Applied Science and Humanities (only by Physics)



**R.T. M. Nagpur University, Nagpur**  
**FOUR YEAR B.TECH. COURSE**  
**B.Tech. SCHEME OF EXAMINATION wef: 2021-22**

**Scheme of Teaching & Examination of Bachelor of Technology III Semester B.Tech. (Computer Science and Engineering)**

Sr. No.	Course Code	Category	Course Name	Hours/Week			Credits	Maximum Marks				Min Passing		
				L	T	P		Theory		Practical		Total	Theory	Practical
								Internal	University	Internal	University			
1	BTECHCSE301T	Basic Sciences courses	Applied Mathematics – III	3	1	-	4	30	70	-	-	100	45	
2	BTECHCSE302T	Professional core courses	Object Oriented Programming with Java	3	1	-	4	30	70	-	-	100	45	
3	BTECHCSE303T	Professional core courses	Operating System	3	-	-	3	30	70	-	-	100	45	
4	BTECHCSE304T	Professional core courses	Computer Architecture & Digital System	3	1	-	4	30	70	-	-	100	45	
5	BTECHCSE305T	Professional core courses	Ethics in IT	3	-	-	3	30	70	-	-	100	45	
6	BTECHCSE306T	Humanities	Universal Human Values	2	-	-	2	15	35	-	-	50	23	
7	BTECHCSE307T	Mandatory Course	Environment Science (Audit)	2	-	-	0	-	-	-	-	-	-	
8	BTECHCSE302P	Professional core courses	Object Oriented Programming with Java	-	-	2	1	-	-	25	25	50		25
9	BTECHCSE303P	Professional core courses	Operating System	-	-	2	1	-	-	25	25	50		25
10	BTECHCSE308P	Professional core courses	Computer Workshop-I	-	-	2	1	-	-	25	25	50		25
<b>Total</b>				<b>19</b>	<b>3</b>	<b>6</b>	<b>23</b>	<b>165</b>	<b>385</b>	<b>75</b>	<b>75</b>	<b>700</b>		

*delst*  
*Dr delst Malik*  
*Chairman STC*

**RTMNU B.TECH. SCHEME OF EXAMINATION 2021-22**

**Scheme of Teaching & Examination of Bachelor of Technology IV Semester B.Tech. (Computer Science and Engineering)**

Sr. No.	Course Code	Category	Course Name	Hours/Week			Credits	Maximum Marks				Min Passing Marks		
				L	T	P		Theory		Practical		Total	Theory	Practical
								Internal	University	Internal	University			
1	BTECHCSE401T	Basic sciences	Discrete Mathematics and Graph Theory	3	0	0	3	30	70	-	-	100	45	
2	BTECHCSE402T	Professional core courses	Data Structure and Program Design	3	1	0	4	30	70	-	-	100	45	
3	BTECHCSE402P	Professional core courses	Data Structure and Program Design Lab	0	0	2	1	-	-	25	25	50		25
4	BTECHCSE403T	Professional core courses	Database Managements Systems	3	0	0	3	30	70	-	-	100	45	
5	BTECHCSE403P	Professional core courses	Database Managements Systems Lab	0	0	2	1	-	-	25	25	50		25
6	BTECHCSE404T	Professional core courses	Computer Networks	3	0	0	3	30	70	-	-	100	45	
7	BTECHCSE405T	Professional core courses	Theory of Computation	3	1	0	4	30	70	-	-	100	45	
8	BTECHCSE406T	Professional core courses	System Programming	3	0	0	3	30	70	-	-	100	45	
9	BTECHCSE407P	Professional core courses	Computer Workshop-II (Python)	0	0	2	1	-	-	25	25	50		25
10	BTECHCSE408	Project-CS	Internship	0	0	2	1	-	-	50	-	50		25
<b>Total</b>				<b>18</b>	<b>2</b>	<b>8</b>	<b>24</b>	<b>180</b>	<b>420</b>	<b>125</b>	<b>75</b>	<b>800</b>		

*delst*

## Computer Engineering

### Fifth Semester:-

S. N.	Subject	Teaching Scheme			Evaluation Scheme			Credits	Category
		L	T	P	CA	UE	Total		
1	Database Management System	3	-	-	30	70	100	3	PCC-CS
2	Computer Graphics	3	-	-	30	70	100	3	PCC-CS
3	Compiler Design	4	-	-	30	70	100	4	PCC-CS
4	Advance Java Programming	3	-	-	30	70	100	3	PCC-CS
5	Elective-I	3	-	-	30	70	100	3	PEC-CS
6	Database Management System - Lab	-	-	2	25	25	50	1	PCC-CS
7	Computer Graphics –Lab	-	-	2	25	25	50	1	PCC-CS
8	Compiler Design -Lab	-	-	2	25	25	50	1	PCC-CS
9	Humanities - II Functional English	2	-	-	25	25	50	1	HSMC
10	Essence of Indian Knowledge Tradition	3	-	-	50	-	50	Audit	MC
<b>Total</b>		<b>21</b>	<b>00</b>	<b>06</b>			<b>750</b>	<b>20</b>	

- Elective-I:**
1. Microcontrollers & Applications,
  2. Artificial Intelligence,
  3. Software Engineering

### Sixth Semester:-

S. N.	Subject	Teaching Scheme			Evaluation Scheme			Credits	Category
		L	T	P	CA	UE	Total		
1	Design and Analysis of Algorithms	3	-	-	30	70	100	3	PCC-CS
2	Advanced Computer Network	3	-	-	30	70	100	3	PCC-CS
3	Elective-II	3	-	-	30	70	100	3	PEC-CS
4	Elective-III	3	-	-	30	70	100	3	PEC-CS
5	Open Elective-I	3			30	70	100	3	OEC-CS
6	Design and Analysis of Algorithms- Lab	-	-	2	25	25	50	1	PCC-CS
7	Advanced Computer Network -Lab	-	-	2	25	25	50	1	PCC-CS
8	Computer Workshop Lab -II	-	-	2	25	25	50	1	LC
9	Mini Project	-	-	6	50	50	100	3	PROJ-CS
10	Seminar / Presentations on Current trends	2	-	-	50	-	50	Audit	
<b>Total</b>		<b>17</b>	<b>00</b>	<b>12</b>			<b>800</b>	<b>21</b>	

**Seventh Semester:-**

S. N.	Subject	Teaching Scheme			Evaluation Scheme			Credits	Category
		L	T	P	CA	UE	Total		
1	Distributed System & Parallel Computing	3	-	-	30	70	100	3	PCC-CS
2	Cryptography & Network Security	3	-	-	30	70	100	3	PCC-CS
3	Elective – IV	2	-	-	30	70	100	2	PEC-CS
4	Elective – V	2	-	-	30	70	100	2	PEC-CS
5	Open Elective-II	3	-	-	30	70	100	3	OEC-CS
6	Distributed System & Parallel Computing-Lab			2	25	25	50	1	PCC-CS
7	Cryptography & Network Security-Lab			2	25	25	50	1	PCC-CS
8	Project and Seminar	-	-	12	75	75	150	6	PROJ-CS
9	Report Writing Activity	2	-	-	50	-	50	Audit	-
	<b>Total</b>	<b>16</b>	<b>00</b>	<b>16</b>			<b>800</b>	<b>21</b>	

**Elective IV: -**  
 1. Data Analytics & Business Intelligence  
 2. Cloud Computing & Virtualization  
 3. Fundamentals of Virtual & Augmented Reality

**Elective V: -**  
 1. Ad Hoc and Sensor Networks  
 2. Real Time Operating System  
 3. Introduction to Software Testing

**Elective-II: -**  
 1. Human Computer Interaction  
 2. Internet of Things  
 3. Robotics

**Elective-III: -**  
 1. Advanced Operating System  
 2. Machine Learning  
 3. Advanced Algorithms

**Eighth Semester:-**

S. N.	Subject	Teaching Scheme			Evaluation Scheme			Credits	Category
		L	T	P	CA	UE	Total		
1	Elective-VI	2	-	-	30	70	100	2	PEC-CS
2	Open Elective-III	3	-	-	30	70	100	3	OEC-CS
3	Open Elective-IV	3	-	-	30	70	100	3	OEC-CS
4	Project	-	-	12	100	100	200	6	PROJ-CS
5	Preparation of Training and Placement	2	-	-	50		50	Audit	
	<b>Total</b>	<b>10</b>	<b>00</b>	<b>12</b>			<b>550</b>	<b>14</b>	

**Elective-VI:**  
 1. Genetic Algorithms  
 2. Kernel Programming

**Elective-VI:**  
 1. Genetic Algorithms  
 2. Kernel Programming  
 3. Natural Language Programming

# Activities For Faculty Up Gradation

# WORKSHOP ON CURRICULUM DEVELOPMENT



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



**NAAC Accredited**

**Academic session 2018-19**

---

## Report on One Day Workshop on Curriculum Development of Chemistry (Sem I and Sem II)

1. Event Title : One Day Workshop on Curriculum Development of Chemistry (Sem I and Sem II)
2. Event Date : 18/06/2019
3. Event conduction duration : One Day
4. Event venue : Faculty Seminar
5. Event Resourse Person : Dr. G.S. Khadekar, Dean, Faculty of Science and Technology RTMNU  
Dr. M.D. Choudhary, Dr. A.V. Bharti and Dr. P.R.Dhote  
Member BOS, Applied Science and Humanity.
6. Name of Event Coordinator : Dr. (Mrs.) A. R. Chaudhari, IQAC & First Year Coordinator
7. Number of students and faculties : 40
8. Objective : Faculties should aware about the Scheme and syllabus of B.E. First Semester subject Energy and Environment and second semester subject Basic Chemistry.
9. Outcome : All the participants agreed to frame the syllabus Based on Industry needs. Faculty members given Suggestions for inclusion in the new syllabus.

Dr. (Mrs.) A. R. Chaudhari  
IQAC & First Year Coordinator  
IQAC Coordinator  
Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.

Dr. N. K. Choudhari  
Principal  
Principal  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.

**Lokmanya Tilak Jankalyan Shikshan Sanstha's**  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

---

**Report on One Day Workshop on Curriculum Development of Chemistry (Sem I and Sem II)**

As per the proposal received from Dean, Faculty of Science and Technology RTMNU, Priyadarshini Bhagwati College of Engineering under IQAC cell jointly organized one day workshop on “**Curriculum Development of Chemistry (B.E. Sem I and Sem II)**” on 18/06/2019 at college campus Nagpur in collaboration with Board of Studies Applied Science and Humanities, Faculty of Science & Technology, Rashtrasant Tukadoji Maharaj Nagpur University, .

The Dean, Faculty of Science and Technology RTMNU, Dr. G.S. Khadekar was the Chief Guest for the inaugural session. The workshop was conducted under the guidance of Dr. M.D. Choudhary, Dr. A.V. Bharti and Dr. P.R.Dhote Member BOS, Applied Science and Humanity. For this workshop around 40 faculty members of various engineering colleges were present.

In this workshop Scheme and syllabus of B.E. First Semester subject Energy and Environment and second semester subject Basic Chemistry was discussed, for the subject Energy and environment one tutorial and one activity should be added suggested by the participants. There was detailed discussion on the various units and content of units of the proposed syllabus of both the subjects. All the participants agreed to frame the syllabus based on Industry needs. In this workshop all the participants taken part very enthusiastically. The suggestions from all the faculty members were noted down for inclusion in the new syllabus. Minutes of meeting were prepared and submitted to BOS, Applied Science and Humanities.

All the faculty members of B.E. First year taken lot of efforts for the success of this workshop.

I am very much thankful to our Respected Principal Sir Dr. N. K. Choudhari for his constant support and guidance.



Dr. (Mrs.) A. R. Chaudhari  
IQAC & First Year Coordinator  
IQAC Coordinator  
Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.



Dr. N. K. Choudhari  
Principal  
**Principal**  
Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Santha's  
Priyadarshini Bhagwati College of Engineering  
Harpur nagar, Umrer Road, Nagpur



## INVITATION

You are cordially invited for the Inaugural Ceremony of  
One Day workshop

On

**Curriculum Development of Chemistry (B. E. I Sem & II Sem)**

On

**18<sup>th</sup> June 2019 at 10:30 a.m.**

*In Seminar Hall*

*At the auspicious hands of*

**Dr. G. S. Khadekar**

*Dean, Faculty of Science & Technology,  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*

*In the gracious presence of*

**Dr. A. V. Bharati**

**Dr. M. D. Choudhary**

**Dr. P. R. Dhote**

*BOS Member, Applied Science & Humanities,  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*

**Dr. N. K. Choudhari**

*Principal PBCOE*

*Will preside over the function*

*Your esteem presence is solicited in Inaugural Ceremony*

*Jointly Organised by*

*Board of Studies, Applied Science and Humanities, Faculty of Science & Technology  
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*

*&*

*Priyadarshini Bhagwati College of Engineering, Nagpur*

Priyadarshini Bhagwati College of Engineering, Nagpur

Organizes

“One day Workshop on Curriculum Development of Chemistry (B.E. Sem I and Sem II)”

In collaboration with

Board of Studies Applied Science and Humanities  
Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Date : 18/06/2019

Registration Sheet

S.N	Name of Faculty	Name of College/Institute	Contact No.	Email id	Sign
1.	Dr. K. Gajanan	K.I.T. S. Ramtek	9890254245	gajanankotharu1@gmail.com	<i>KG</i>
2.	Prof. M. B. Deshmukh	RGCE, Nagpur.	9764106333	mbdeshmukh@rgcer.edu.in	<i>MBD</i>
3.	Prof. P. S. Pande	RGCE, Nagpur.	9422440249	pournimapande@yohoo.co.in	<i>Pande</i>
4.	Dr. A. C. Haldar	PBCOE, Nagpur.	9766851607	animesh2477@gmail.com	<i>Animesh</i>
5.	Dr. M. Jachak Dr. Manish Jachak	SVP CET, Nagpur.	9049139756	manishjachak@gmail.com	<i>Manish</i>
6.	Dr. D. W. Deshmukh	GHRAET, Nagpur	7709171662	ddeshmukh2010@gmail.com	<i>Deshmukh</i>

S.N	Name of Faculty	Name of College/Institute	Contact No.	Email id	Sign
7.	Prof. M. A. Borikar	SVP CET, Nagpur	9860227630	borikarmohan@rediffmail.com	<i>Borikar</i>
8.	Mrs. Aditi L. Tulankar	KDKCE, Nagpur	9764441475	aditulankar@gmail.com	<i>Aditulankar</i>
9.	Dr. Bharati Burande	PIGCE, Nagpur	9421807511	bharti.pigce@gmail.com	<i>Bharati Burande</i>
10.	Ms. Megha Khurma	RGCE, Nagpur	9822564276	m.khurma@gmail.com	<i>Megha</i>
11.	Dr. (Mrs) Jayashri Kanfode	PCE, Nagpur	9822575182	jpkanfode@rediffmail.com	<i>Jayashri</i>
12.	Dr. (Mrs) Seema Shrivastava	PCE, Nagpur	9225239590 9730031456	see.ma@atunshrivastava.in	<i>Seema</i>
13.	Dr. Manisha Joshi	PCE, Nagpur	9225239590	manishaj74@gmail.com	<i>Manisha Joshi</i>
14.	Mr. Nadir A. M. Husain	TGPCET, Nagpur	8390906673	hod.ge@tgpct.com	<i>Nadir</i>
15.	Dr. I. B. Das Sarma	JIT, Nagpur.	9673991974	dassarmaib@jit.org.in	<i>Indira</i>
16.	Ms. Ekta M. Meshram	GNIET, Nagpur	9764093405	dassarmaib@jit.org.in	<i>Ekta</i>
17.	Dr. Roshani Halmare	GNIET, Nagpur	9823380178	roshanihalmare10@gmail.com	<i>Roshani</i>
18.	Dr. K. Gour	PJLCE, Nagpur	8830212932	Kavitagour1168@rediffmail.com	<i>K. Gour</i>
19.	Dr. Megha Sawangikar	DMIETR, Nagpur.	9423119016	mssawangikar@rediffmail.com	<i>M. Sawangikar</i>
20.	Dr. Shahbaz Khan	ACET, Nagpur	9423403411	drkhanshabaz@rediffmail.com	<i>Shahbaz</i>
21.	Dr. S. V. Geikwad Dr. Swati V. Geikwad	DBACER, Nagpur.	7709199899	swatigaikwad@gmail.com	<i>Swati</i>
22.	Nilesh R. Zalke	SBJIT, Nagpur	9545784666	Zalkenilesh274@gmail.com	<i>Nilesh</i>



S.N.	Name of Faculty	Name of College/Institute	Contact No.	Email id	Signature
23.	Dr. Vrushali. R. Kinhikar	GHRIET, Nagpur.	9823388226	vrushalikhikar@raisoni.net	
24.	Dr. Asha H. Gedam	CCOEW, Nagpur	8793699315	agedam.ccoew@gmail.com	
25.	Dr. Gauri Deshmukh	RG CER, Nagpur.	9970755041	gauri.d2007@gmail.com	
26.	Dr(Ms) R. A. Nandanwar	PBCOE, Nagpur	9049990446	rupalidekate2008@rediff.com	



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S  
**PRIYADARSHINI BHAGWATI**  
**COLLEGE OF ENGINEERING**  
 (Formerly known as Smt. Bhagwati Chaturvedi College of Engineering)  
 Harpur Nagar, Umred Road, Nagpur - 440 024. (India)  
 Tel. : +91-712-2710281, 2710282. Fax : +91-712-2710283  
 E-mail : principal.bcce@ljss.net Website : www.bcce.ljss.net



Date: 14/06/2019

To,  
 All Principals of Engineering Colleges  
 RTMNU, Nagpur.

**Subject : One day workshop on curriculum development of Chemistry  
 (B.E. I Sem and II Sem) at PBCOE.**

**Sir/ Madam,**

As per the proposal received from Dean, Faculty of Science and Technology RTMNU, I am pleased to inform you that, Priyadarshini Bhagwati College of Engineering, Nagpur in collaboration with Rashtrasant Tukadoji Maharaj Nagpur University is organizing one day workshop on "**Curriculum Development of Chemistry (B.E. Sem I and Sem II)**" on 18/06/2019 at 10.30 a.m. at college campus.

The Dean, Faculty of Science and Technology RTMNU, Dr. G. S. Khadekar has graciously consented to be the Chief Guest for the inaugural session. The workshop is conducted under the guidance of Dr. A. V. Bharti, Member BOS, Applied Science and Humanity.

You are requested to depute two faculty members of Chemistry to attend the workshop. Kindly communicate the names of Faculty members on or before 15/06/2019. If you need any further information in this regard please contact, the convenor of the workshop Dr.(Mrs.) A.R. Chaudhari, Dean Academics, PBCOE (Mobile No. 9823285684)

Regards,

**Dr.N.K.Choudhari**  
 Principal




Lokmanya Tilak Jankalyan Shikshan Santha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred road, Nagpur



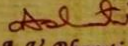
*Workshop on Curriculum Development of Chemistry (B. E. I Sem & II Sem)*

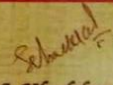
### **Certificate of Participation**

This is to certify that Dr./Mr. /Ms. Asha H. Gedam  
From CCOEW, Nagpur. has attended One-  
day Workshop on "Curriculum Development of Chemistry (B. E. I Sem & II Sem)" Jointly  
organized by Board of Studies Applied Science and Humanities ,Faculty of Science &  
Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and Priyadarshini  
Bhagwati College of Engineering, Nagpur, on 18<sup>th</sup> June 2019.

  
Dr. N. K. Choudhari  
Principal, PBCOE

  
Dr. (Mrs.) A. R. Chaudhari  
Convener  
& IQAC Coordinator PBCOE

  
Dr. A. V. Bharati  
BOS Member, Applied  
Science & Humanities, RIMNU

  
Dr. G. S. Khadekar  
Dean, Faculty of Science &  
Technology, RIMNU

**Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**

**BOARD OF STUDIES IN APPLIED SCIENCES AND HUMANITIES**

**Minutes of workshops held on 18 and 19-06-2019 at Priyadarshani Bhagwati College of Engineering, Nagpur, Cummins College of Engineering Nagpur, PCE, Nagpur and PIET, Nagpur**

The following members were present and Dr. G. S. Khadekar, Dean Science and Technology chaired the Workshops.


Sr.No.	NAME	AFFILIATION
1.	Dr. K. Gajanan	K.I.T. S. Ramtek
2.	Prof. M. B. Deshmukh	RG CER, Nagpur.
3.	Prof. P. S. Pande	RG CER, Nagpur.
4.	Dr. A. C. Haldar	PBCOE, Nagpur.
5.	Dr. M. Jachak	SVPCET, Nagpur.
6.	Dr. D. W. Deshmukh	GHRAET, Nagpur
7.	Prof. M. A. Borikar	SVPCET, Nagpur
8.	Mrs. Aditi L. Tulankar	KDKCE, Nagpur
9.	Dr. Bharati Burande	PIGCE, Nagpur
10.	Ms. Megha Khurma	RG CER, Nagpur
11.	Dr. (Mrs) Jayashri Kanfode	PCE, Nagpur
12.	Dr. (Mrs) Seema Shrivastava	PCE, Nagpur
13.	Dr. Manisha Joshi	PCE, Nagpur
14.	Mr. Nadir A. M. Husain	TGPCET, Nagpur
15.	Dr. I. B. Das Sarma	JIT, Nagpur.
16.	Ms. Ekta M. Meshram	GNIET, Nagpur
17.	Dr. Roshani Halmare	GNIET, Nagpur
18.	Dr. K. Gour	PJLCE, Nagpur
19.	Dr. Megha Sawangikar	DMIETR, Nagpur.
20.	Dr. Shahbaz Khan	ACET, Nagpur
21.	Dr. S. V. Gaikwad	DBACER, Nagpur.
22.	Nilesh R. Zalke	SBJIT, Nagpur
23.	Dr. Vrushali. R. Kinhikar	GHRIET, Nagpur.
24.	Dr. Asha H. Gedam	CCOEW, Nagpur
25.	Dr. Gauri Deshmukh	RG CER, Nagpur.
26.	Dr. R. A. Nandanwar	PBCOE, Nagpur.


1. Minutes of Meeting of BOS of Dept. of Chemistry

Minutes of workshop held at 10.30 AM on 18-06-2019 at Priyadarshani Bhagwati College of Engineering, Nagpur

Dr. A. V. Bharati placed the agenda before members of BOS. The following resolutions were then proposed and unanimously adopted by the members after discussion.

<u>Item 1:</u>		<b>Confirmation of minutes of previous meeting .</b>
	<u>Resolution 1:</u>	It was confirmed by the members present.
<u>Item 2:</u>		Scheme of B. E. First Semester
	<u>Discussion:</u>	There was a detailed discussion on the scheme of B.E.first semester. Suggestions and impute from all participants were invited.The subject in B.E.first semester is Energy and Environment, It was proposed by some faculties to change the name of subject.
	<u>Resolution</u>	It was resolved to take action on the suggestions given by the faculties are as follows: For the subject Energy and environment one tutorial and one activity is to be added in the proposed scheme of B.E. first semester.
<u>Item 3:</u>		Scheme of the B. E. Second Semester
	<u>Discussion</u>	There was a detailed discussion on the scheme of B.E.second semester. Suggestions and impute from all participants were invited.The subject in B.E.second semester is Basic Chemistry
	<u>Resolution 3:</u>	It was resolved to take action on the suggestions given by the faculties are as follows: For the subject Basic Chemistry one activity to be added in the proposed scheme of B.E.second semester.
<u>Item 4:</u>		Framing of syllabus of Energy and Environment
	<u>Discussion</u>	There was detail discussion on the various units and content of units of the proposed syllabus subject Energy and Environment of First semester
	<u>Resolution 5:</u>	It was resolved to take action on the suggestions given by the faculties are as follows: Existing Unit I Energy Basics is to be deleted from the proposed syllabus. Unit II and II to be named as Energy I and Energy II Name of Unit II to be changed as Environmental Sustainability and Green Chemistry
<u>Item 6:</u>		Framing of syllabus of Basic Chemistry
	<u>Discussion</u>	There was detail discussion on the various units and content of units of the proposed syllabus subject Basic Chemistry of
		Second semester. It was unanimously agreed to include the topics which are as per the requirement of industry.
	<u>Resolution 6:</u>	Unit I - Numericals on Z effective and Crystal field theory to be included Unit III - Vibrational and rotational spectroscopy is to be deleted. Unit IV - to be replaced buy lubricants Unit V- Lime soda process to be deleted along with numerical on zeolites to be included. Internal conditioning to be deleted.

  
Dr. (Mrs.) A. R. Chaudhari  
IQAC & First Year Coordinator  
IQAC Coordinator  
Priyadarshani Bhagwati College of Engg  
Umred Road, Nagpur.

  
Dr. N. K. Choudhari  
Principal  
Principal  
Priyadarshani Bhagwati College of Engg  
Umred Road, Nagpur.



Induction  
Program For First  
Year Students



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



**NAAC Accredited**

**Department of B.Tech First Year**

**Academic session 2022-23**

---

**Report on "Session on Habit Formation"**

1. **Event Title** : Session on **Habit Formation** in Student Induction Program
2. **Event Date** : November 16,2022
3. **Event conduction duration** : 2 hours
4. **Event venue** : Auditorium Hall, PBCOE Campus
5. **Name of Event Coordinator** : Prof.U.V.Gaikwad, Ms.S.P.Gurway
6. **Number of Attendees** : 270 (Students & Faculty Members)
7. **Objective** :
  - a. To strengthen the importance of Forming Good Habits in our day to day life activities.
  - b. To inculcate the human values into student's life as they have been shifted from Schooling life to technical education & Professional life.
8. **Outcome** :
  - a. The students will be able to know the importance of forming habits for maintaining the balance between their daily schedule and education life.
  - b. Students will be able to know the possible ways like yoga, maintain To-Do-List, meditation and other activities as a part of Habit Formation through which they can be successful in life.

Ms.U.V.Gaikwad  
Event Coordinator

Ms.S.P.Gurway  
Event Coordinator

Dr.(Mrs) A.R.Chaudhari  
Coordinator, B.Tech FY

Dr.N.K.Choudhari  
Principal

# Event Flyer



Lokmanya Tilak Jankalyan Shikshan Sanstha's

**Priyadarshini Bhagwati College of Engineering, Nagpur**



Harpur Nagar Umred Road (Near Bada Tajbagh), Nagpur-24

(Approved by AICTE, New Delhi, Govt. of Maharashtra and Affiliated to RTM Nagpur University)

Email- [principalpbcoe@gmail.com](mailto:principalpbcoe@gmail.com) , website: [www.pbcoe.edu.in](http://www.pbcoe.edu.in)

NAAC ACCREDITED

***INDUCTION PROGRAM***  
***(For B.TECH First Year Students)***  
***Session on***  
***"Habit Formation"***



***Mr. Shrirang Burade***  
***FCI, Nagpur in Quality Control Section***  
***District Youth Coordinator***  
***Sri Sathya Sai Seva Organization***

***November 16, 2022***

***Venue: Auditorium Hall, PBCOE Campus***

**Dr. N.K. Choudhari**  
**Principal**

**Dr. (Mrs.) A.R. Chaudhari**  
**Dean Academics &**  
**Coordinator, B.Tech First Year**



## Event Photo



# Teaching Plan

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR


Department of B.Tech First year


Teaching plan Odd Semester 2022-23


Branch	Semester	Section	Faculty	Subject/Subject Code
First year	I semester	C	Dr. (Mrs.) S. R. Suple	Mathematics-I / BESI-T

Unit No.	Topic Codes	Topic Description	Proposed Dates	Engaged Dates
I	1.	Successive Differentiation: Standard Results Problems on successive differentiation	04/01/2023 05/01/2023	23/01/23 24/01/23
	2.	Problems on Leibnitz's rule	06/01/2023	25/01/23
	3.	Problems on Leibnitz's rule	07/01/2023	31/01/23
	4.	Taylor's, Maclaurin series and problems	09/01/2023 10/01/2023	01/02/23
	5.	L'Hospital Rule -Interminate forms, $0/0$ , $\infty/\infty$ , $0 \times \infty$	11/01/2023 12/01/2023	01/02/23
	6.	L'Hospital Rule-Interminate forms $\infty - \infty$ , $0 \times \infty$	13/01/2023 16/01/2023	02/02/23 03/02/23
	7.	Indeterminate forms - $\infty^{\infty}$ , $0^0$ , $\infty^0$ Exponential forms	17/01/2023 18/01/2023	04/02/23 06/02/23
	8.	Maxima and Minima of one variable	19/01/2023	08/02/23
II	9.	Partial Differentiation: Simple problems	20/01/2023	09/02/23
	10.	Homogeneous function and Euler's theorem problem	21/01/2023 23/01/2023	10/02/23 13/02/23
	11.	Euler's theorem problem	24/01/2023	14/02/23
	12.	chain rule	25/01, 26/01/23	15/02/23
	13.	chain rule	27/01, 30/01, 31/01/23	16/02/23
	14.	Problems on Total differentiation	01/02/23, 02/02/23	17/02/23
	15.	Problems on Total differentiation	03/02/23, 04/02/23	20/02/23
	16.	Maxima and Minima for function of two variables	06/02/23, 07/02/23 08/02/23	20/02/23
	17.	Lagrange's Method of undetermined multipliers	09/02/23 10/02/23, 13/02/23	21/02/23
	18.	Jacobian	14/02, 15/02, 16/02	21/02/23
19.	Jacobian	17/02, 18/02, 20/02, 21/02	22/02/23	
III	20.	Matrices :Introduction	21/11/2022	18/11, 19/11/22
	21.	Rank of a matrix	22/11, 23/11/22	23/11, 24/11/22
	22.	Inverse by partitioning method	24/11/22	25/11, 28/11/22
	23.	Inverse by partitioning method	25/11/22	29/11/22

	24.	Consistency of linear system of Non-homogeneous Equations	28/11/2022	28/11/22
	25.	Consistency of linear system of Non-homogeneous Equations	29/11/2022	29/11/22
	26.	Homogeneous system of Linear equation	30/11/2022	30/11/22
	27.	Symmetric, skew symmetric, orthogonal and linear transformation	01/12/2022	01/12/22
	28.	Cayley - Hamilton Theorem	02/12/2022	02/12/22
IV	29.	Linear Differential Equation	03/12/2022	03/12/22
	30.	Linear Differential Equation	05/12/2022	05/12/22
	31.	Reducible to Linear Differential Equation	06/12/2022	07/12/22
	32.	Reducible to Linear Differential Equation	07/12/2022	08/12/22
	33.	Exact D.E.	08/12, 09/12/22	09/12/22
	34.	First order higher degree D. E.	12/12/22	12/12/22
	35.	Application to simple Electrical Circuits.	13/12/22	13/12/22
V	36.	Higher order D.E. introduction.	14/12/22	14/12/22
	37.	Cases of Complementary Function.	15/12/22	16/12/22
	38.	Cases of Complementary Function	16/12, 17/12/22	17/12/22
	39.	Cases Of Particular Integral (Cases: I, II & III)	19/12/22	20/12, 23/12/22
	40.	Cases Of Particular Integral (Cases: IV, V & VI)	20/12/22	26/12/22, 27/12/22
	41.	Problems on Particular integral	21/12/22, 22/12/22	28/12/22, 29/12/22
	42.	Method of Variation parameters.	23/12/2022	30/12/22
	43.	Cauchy's Homogeneous D.E.	26/12/2022	31/12/22, 02/01/23
	44.	Legendres Homogeneous D.E.	27/12/2022	28/12/2022
	45.	D.E. of the type $d^2y/dx^2 = f(x)$	28/12/2022	03/01/23, 04/01/23
	46.	D.E. of the type $d^2y/dx^2 = f(y)$	29/12/2022	05/01/23, 07/01/23
	47.	Simultaneous differential equation	30/12/2022	09/01/23, 10/01/23
	48.	Applications of higher order differential equations to simple electrical circuit	31/12/2022	16/01/23, 17/01/23
		02/01/2023	18/01/23	
		03/01/2023	19/01/23	
			20/01/23	

  
 Signature  
 Dr. (Mrs.) S. R. Suple  
 (Subject Teacher)

  
 Signature  
 Dr. (Mrs.) A. R. Chaudhari  
 (HOD)

  
 Signature  
 Dr. N. K. Choudhari  
 (Principal)

Sample E-Content  
Developed By  
Faculties



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



**NAAC Accredited**

**e-Contents Developed by Faculties**

S.N.	Name of Faculty	Name of digital content	Department	Tentative date of submission
1.	Dr.(Mrs.) A. R. Chaudhari	1. Corrosion of Metals Part-I (Available on Youtube) 2. Corrosion of Metals Part-II factors affecting corrosion (Available on Youtube)	B-Tech First Year	<a href="https://youtu.be/TihIhV1wXO0">https://youtu.be/TihIhV1wXO0</a> <a href="https://youtu.be/XiyPOtTPb9o">https://youtu.be/XiyPOtTPb9o</a>
2.	Ms. U. V. Gaikwad	1. Newtons rings 2. CRO -1 3. CRO -2	B-Tech First Year	<a href="https://youtu.be/ZiiAMoMkJUE">https://youtu.be/ZiiAMoMkJUE</a> <a href="https://youtu.be/cuoPyLU8_KI">https://youtu.be/cuoPyLU8_KI</a> <a href="https://youtu.be/h_h-uCrfApM">https://youtu.be/h_h-uCrfApM</a>
3.	Dr.(Mrs) .S.R.Suple	1. Newton Raphson Method for Engineering students (Available on Youtube)	B-Tech First Year	<a href="https://youtu.be/8_2qDFqv1sE">https://youtu.be/8_2qDFqv1sE</a>
4.	Dr. Pramod R. Bokde	1. <b>FandooElectronics</b> Youtube channel to Learn Latex (21 videos) 2. Complete Latex Course – <b>'Mastering Latex'</b> (also uploaded on Udeemy) (150 Videos) 3. <b>Electromagnetic Waves</b> (86 Videos)	Electronics & Communication Engineering	<a href="https://www.youtube.com/channel/UCkcrMm_UoxCXc8Rrg4QXIRg">https://www.youtube.com/channel/UCkcrMm_UoxCXc8Rrg4QXIRg</a> <a href="https://studio.youtube.com/channel/UCyGgBu_9sxNw1nJh1l4ssQ/videos/upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D">https://studio.youtube.com/channel/UCyGgBu_9sxNw1nJh1l4ssQ/videos/upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D</a> <a href="https://studio.youtube.com/channel/UCkcrMm_UoxCXc8Rrg4QXIRg/vid">https://studio.youtube.com/channel/UCkcrMm_UoxCXc8Rrg4QXIRg/vid</a>

		<p>4. <b>Electronics Guru</b> – Telegram channel for sharing PDF notes of all subjects of Electronics and Communication Engg.</p>	<p><a href="https://upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D">eos/upload?filter=%5B%5D&amp;sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D</a></p> <p><a href="https://t.me/+Of_XJpKN9QZmMDc1">https://t.me/ +Of_XJpKN9QZmMDc 1</a></p>
--	--	---	---

# Sample Google Classroom





Classroom >

PPC-ELECTIVE  
SIXTH SEM



Stream

Classwork

People

Grades



Customize

# PPC-ELECTIVE

## SIXTH SEM

Class code



**bgryxp7**



Announce something to your class



Upcoming

No work due soon

[View all](#)



**SHUBHANGI GURWAY**

Jun 8



Important topics regarding University paper

1.numericals on demand forecasting,line balancing,inventory control and sequencing (for those who want to score good)

2.Product life cycle.





Stream

Classwork


People

Grades



- 6.Inventory control and its objective,importance
- 7.Inventory cost relationship
- 8.MRP and inputs to MRP
- 8.Master production schedule
- 9.Process planning,capacity planning,aggregate planning
- 10.types of demand forecasting
- 11.sequencing,scheduling,dispatching
- 12.types of production process.
- 13.gantt chart theory only.
- 14.inventory models
- 15.objective of PPC

Note\* those who only want to clear the subject are suggested to prepare theory only.

 1 class comment





Stream

Classwork

People

Grades



SHUBHANGI GURWAY

Apr 28



Important topics for sessional paper

Important topics for sessional exam

1.numericals on demand forecasting,line balancing,inventory control

Product life cycle.

PPC and its function

Stages in product design process

Delphi and time series analysis theory

Inventory control and its objective

Inventory cost relationship

MRP

Master production schedule

Process planning,capacity planning,aggregate planning



Add class comment...



SHUBHANGI GURWAY





Stream

Classwork

People

Grades



PDF



Add class comment...



SHUBHANGI GURWAY

Apr 24



Important announcement regarding PPC sessional Exam

Syllabus:

The sessional exam is based on complete 5 units of PPC. Theory notes of all 5 units are already uploaded. For numerical questions hard copy will be available in students cooperative store

Those who fail to submit the assignments will not be given internal marks.



Add class comment...



SHUBHANGI GURWAY

Apr 24



PPC UNIT 5 THEORY NOTES





Stream

Classwork

People

Grades



SHUBHANGI GURWAY

Apr 24



PPC UNIT 4 THEORY NOTES



Unit-4.pdf  
PDF



Add class comment...



SHUBHANGI GURWAY

Apr 5



Important announcement regarding syllabus for PPC CAT-II

- 1.The paper will carry some portions of Unit-2 Demand forecasting. and some theory portion of Unit 3 Capacity planning.
- 2.Refer Assignment Number-2 for important questions.
- 3.No copying will be allowed in CAT practice all the numerical questions thoroughly.



Add class comment...






Stream

Classwork

People

Grades

**Unit 3.pdf**  
PDF



Add class comment...




**SHUBHANGI GURWAY**

Apr 5



PPC Assignment-2 Submit it on 13th of april



**ppc asg 2.pdf**  
PDF



Add class comment...



**SHUBHANGI GURWAY**

Apr 5





Classroom >

PPC-ELECTIVE  
SIXTH SEM



Stream

Classwork

People

Grades



Add class comment...



# Sample Assignment Quiz



## Sample Assignment Quiz

4G 4G 5:54

Vol LTE2 61%

☰ 2023-24 M- I



Homogeneous functions

Posted Oct 8



Unit 2

Posted Oct 8



### MCQ



MCQ on all 5 units

Posted Oct 7



### ASSIGNMENT



Assignment-II

Posted Oct 29



Assignment - I

Posted Sep 18



### Question Bank



Question Bank of M-I

Posted Sep 2



Stream



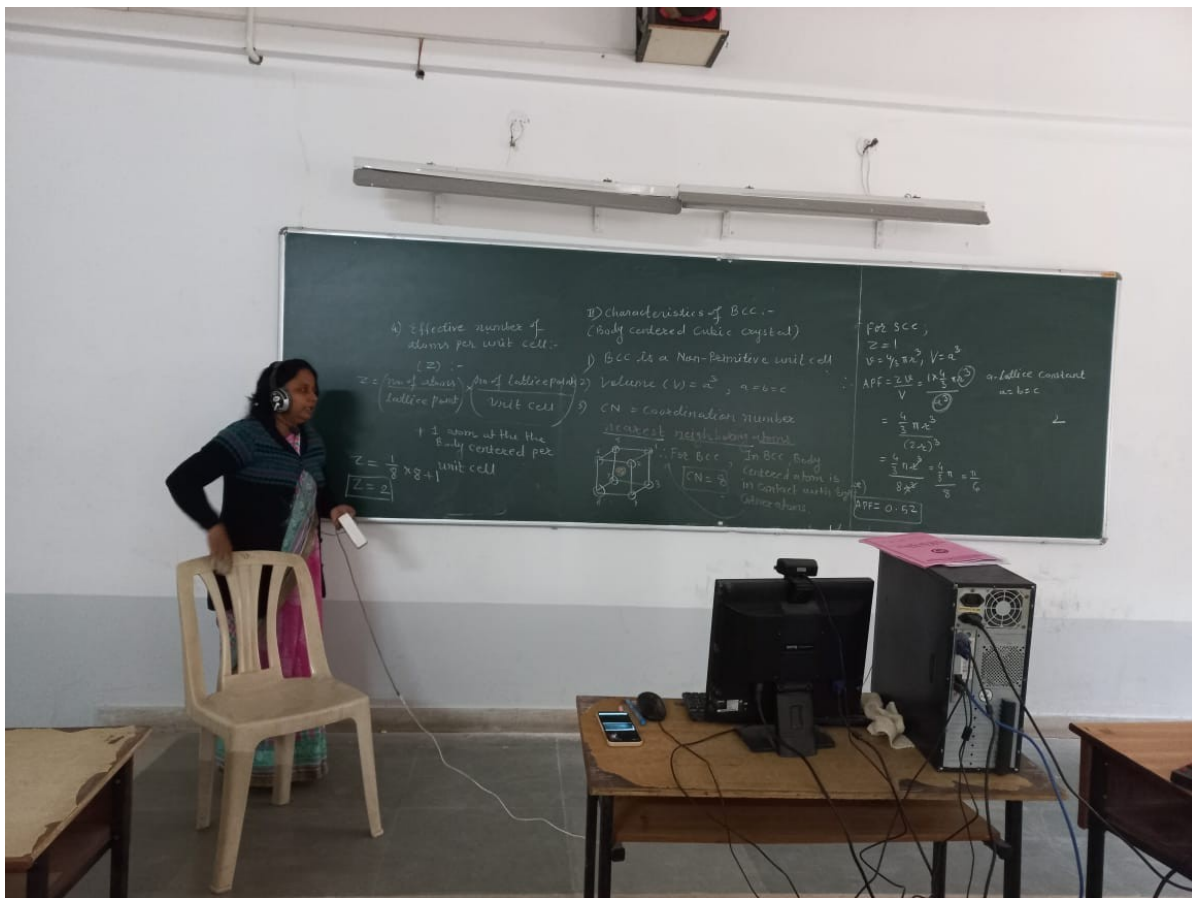
Classwork



People



# Virtual Class





# Academic Monitoring

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

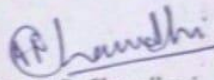
Ref. No: PBCOE/Dean Acad/ 22-23/1

Dr. (Mrs.) A. R. Chaudhari  
Dean Academics  
Date: -12/09/22

**Academic session 2022-23**

**NOTICE**

All heads of the departments are hereby informed to submit the academic report of 5<sup>th</sup> and 7<sup>th</sup> semester for the period 01/08/2022 to 31/08/2022 in the format prescribed by Dean Academics, LTJSS on or before 16/09/2022. Also submit a soft copy on pbcoeiqac@gmail.com

  
Mrs. A. R. Chaudhari

Copy to:

The Dean Academics, LTJSS for kind information  
The Principal for kind information  
Head IT, Head CSE, Head Civil, Head EC and Head Mech

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

**Academic Report**  
**Session 2022-23 (Odd sem)**

Semester:

Duration:

Department	Subject	Name of the Faculty	Total Number of classes as per time-table		% of Syllabus Covered	Average attendance %
			Planned	Engaged		

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR.**

**Academic Report**

Session 2022-23 (Odd Sem)

**Semester: V Sem B Tech CSE**


**Duration: 01/08/2022 To 30/09/2022**

Dept	Subject	Name of the Faculty	Total No of classes as per Time Table		% of syllabus covered	Average Attendance
			Planned	Engaged		
CSE	AI	K N Hande	22	20	45%	56%
CSE	SEPM	S S Wankhede	27	18	55%	64%
CSE	DAA	A A Nikose	22	24	56%	67%
CSE	E-I (TCP/IP)	D B Khadse	22	21	60%	69%
CSE	EFF. TECH COMM	V M Atkari	14	14	80%	69%

**Semester: VII Sem B E CSE**

**Duration: 01/08/2022 To 30/09/2022**

Dept	Subject	Name of the Faculty	Total No of classes as per Time Table		% of syllabus covered	Average Attendance
			Planned	Engaged		
CSE	DWM	A A Nikose	28	17	45%	35%
CSE	LP	R Dagde	30	19	45%	38%
CSE	E-I TCP/IP	D V Jamthe	30	22	45%	38%
CSE	E-II MC	D B Khadse	30	18	50%	35%

  
 07/10/2022  
**K N HANDE**

**HOD**

# Question Bank



# Question Bank

## Mathematics -I

2022-23

### Unit-I

#### Leibnitz Rule

- 1) If  $y = a \cos(\log x) + b \sin(\log x)$  prove that  $x^2 y_{n+2} + (2n+1)xy_{n+1} + (n^2+1)y_n = 0$
- 2) If  $y = \cos(m \sin^{-1} x)$  prove that  $(1-x^2)y_{n+2} - (2n+1)xy_{n+1} + (m^2 - n^2)y_n = 0$
- 3) If  $y = \sin^{-1} x$  prove that  $(1-x^2)y_{n+2} - (2n+1)xy_{n+1} - n^2 y_n = 0$
- 4) If  $y = \tan^{-1} x$  then prove that  $(1+x^2)y_{n+2} + 2(n+1)xy_{n+1} + n(n+1)y_n = 0$
- 5) If  $y = e^{m \sin^{-1} x}$ , Show that
  - i)  $(1-x^2)y_2 - xy_1 - m^2 y = 0$ ,
  - ii)  $(1-x^2)y_{n+2} - (2n+1)xy_{n+1} - (m^2 + n^2)y_n = 0$ .
- 6) If  $y = e^{\tan^{-1} x}$  prove that  $(1+x^2)y_{n+2} + [2(n+1)x-1]y_{n+1} + n(n+1)y_n = 0$ .

#### Indeterminate Form

- 1) Evaluate  $\lim_{x \rightarrow 0} \frac{e^x + e^{-x} - 2 \cos x}{x \sin x}$ .
- 2) Evaluate  $\lim_{x \rightarrow 0} \frac{e^x + e^{-x} - 2x}{x^2 \sin x}$ .
- 3) Evaluate  $\lim_{x \rightarrow 0} \left( \frac{a^x + b^x + c^x}{3} \right)^{\frac{1}{x}}$ .
- 4) Evaluate  $\lim_{x \rightarrow y} \left[ \frac{x^y - y^x}{x^x - y^y} \right]$ .
- 5) Evaluate  $\lim_{x \rightarrow 0} \frac{\sin x^2 - \sin^2 x}{x^4}$ .
- 6) Evaluate  $\lim_{x \rightarrow 1} (1-x) \tan \frac{\pi x}{2}$ .
- 7) Evaluate  $\lim_{x \rightarrow 0} [\cos \sqrt{x}]^{\frac{1}{x}}$ .
- 8) Evaluate  $\lim_{x \rightarrow 0} \left( \frac{\tan x}{x} \right)^{\frac{1}{x^2}}$ .
- 9) Find a & b such that  $\lim_{x \rightarrow 0} \frac{x(1+a \cos x) - b \sin x}{x^3} = 1$ .
- 10) Find a, b, c such that  $\lim_{x \rightarrow 0} \frac{ae^x - b \cos x + ce^{-x}}{x \sin x} = 2$ .
- 11) Evaluate  $\lim_{x \rightarrow a} \log \left( 2 - \frac{x}{a} \right) \cot(x-a)$ .

## Taylor's and Maclaurin's Series

- 1) Given  $f(x) = x^3 + 8x^2 + 15x - 24$ , find  $f\left(\frac{11}{10}\right)$  by using Taylor's theorem.
- 2) Obtain Taylor's expansion of  $\tan^{-1}\frac{y}{x}$  about  $(1,1)$  upto the third degree terms
- 3) Expand  $\cos x$  in powers of  $\left(x - \frac{\pi}{4}\right)$  upto 4 terms.

## Unit -II

- Q.1 If  $x^x y^y z^z = c$  then show that at  $x=y=z$ ,  $\frac{\partial^2 z}{\partial x \partial y} = -(x \log x)^{-1}$ .
- Q.2 If  $u = \log(x^3 + y^3 + z^3 - 3xyz)$ , show that
- (i)  $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z}\right)u = \frac{3}{(x+y+z)}$
  - (ii)  $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z}\right)^2 u = \frac{-9}{(x+y+z)^2}$ .
- Q.3 If  $u = \log(\tan x + \tan y + \tan z)$ , show that  $\sin 2x \left(\frac{\partial u}{\partial x}\right) + \sin 2y \left(\frac{\partial u}{\partial y}\right) + \sin 2z \left(\frac{\partial u}{\partial z}\right) = 2$ .
- Q.4 If  $z(x+y) = x^2 + y^2$  prove that  $\left(\frac{\partial z}{\partial x} - \frac{\partial z}{\partial y}\right)^2 = 4\left(1 - \frac{\partial z}{\partial x} - \frac{\partial z}{\partial y}\right)$ .
- Q.5 If  $z = e^{ax+by} f(ax-by)$  then prove that  $b \frac{\partial z}{\partial x} + a \frac{\partial z}{\partial y} = 2abz$
- Q.6 If  $u = \log[x^4 + x^2 y^2 + y^4]$  then show that  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} + 4 = 0$ .
- Q.7 If  $u = \sin^{-1}\left(\frac{x+y}{\sqrt{x}+\sqrt{y}}\right)$  prove that
- (i)  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \frac{1}{2} \tan u$
  - (ii)  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = -\frac{\sin u \cos 2u}{4 \cos^3 u}$ .
- Q.8 If  $u = \tan^{-1}\left(\frac{x^3+y^3}{x-y}\right)$ , prove that
- (i)  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \sin 2u$
  - (ii)  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = \sin 2u(1 - 4 \sin^2 u)$
- Q.9 If  $u = \operatorname{cosec}^{-1}\left[\frac{x^{1/2}+y^{1/2}}{x^{1/3}+y^{1/3}}\right]^{1/2}$  prove that  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = \frac{\tan u}{12} \left(\frac{13}{12} + \frac{\tan^2 u}{12}\right)$
- Q.10 If  $z = f(u, v)$  and  $u = lx + my$  and  $v = ly - mx$  then show that
- $$\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = (l^2 + m^2) \frac{\partial^2 z}{\partial u^2} + \frac{\partial^2 z}{\partial v^2}$$
- Q.11 If  $u = f(2x - 3y, 3y - 4z, 4z - 2x)$  then prove that  $\frac{1}{2} \frac{\partial u}{\partial x} + \frac{1}{3} \frac{\partial u}{\partial y} + \frac{1}{4} \frac{\partial u}{\partial z} = 0$
- Q.12 If  $u = f\left(\frac{x}{y}, \frac{y}{z}, \frac{z}{x}\right)$ , find the value of  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z}$

Q.13 If  $x = u(1 - v)$ ,  $y = uv$  Prove that  $J.J' = 1$ , where  $J = \frac{\partial(x,y)}{\partial(u,v)}$ .

Q.14 If  $u = x^2 - y^2$ ,  $v = 2xy$ ,  $f(x, y) = \theta(x, y)$  then show that

$$\frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2} = 4(x^2 + y^2) \left[ \frac{\partial^2 \theta}{\partial u^2} + \frac{\partial^2 \theta}{\partial v^2} \right].$$

Q.15 Given  $u = \frac{x+y}{1-xy}$  and  $v = \tan^{-1}x + \tan^{-1}y$ . Find  $\frac{\partial(u,v)}{\partial(x,y)}$  Are u and v functionally related? If so, find relation between them.

Q.16 If  $\varphi\left(\frac{y-z}{xy}, \frac{z-x}{xz}\right)$ , show that  $x^2 \frac{\partial u}{\partial x} + y^2 \frac{\partial u}{\partial y} + z^2 \frac{\partial u}{\partial z} = 0$ .

Q.17 If  $u = \frac{yz}{x}$ ,  $v = \frac{xz}{y}$ ,  $w = \frac{xy}{z}$ , find  $\frac{\partial(x,y,z)}{\partial(u,v,w)}$ .

Q.18 If  $x = \sqrt{uw}$ ,  $y = \sqrt{vw}$ ,  $z = \sqrt{uv}$ , and  $u = r \sin\theta \cos\phi$ ,  $v = r \sin\theta \sin\phi$ ,  $w = r \cos\theta$  then find  $\frac{\partial(x,y,z)}{\partial(r,\theta,\phi)}$

Q.19 Find the minimum value of  $x^2 + y^2 + z^2$ , given that  $ax + by + cz = \rho$ .

Q.20 Divide 24 into three parts such that continued product of first, square of second and cube of third is a maximum.

### Unit III

#### Matrices

1. Find the inverse of matrix:  $A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$  by partitioning.

2. Find the inverse by partitioning method:  $A = \begin{bmatrix} 2 & 3 & 4 \\ 4 & 3 & 1 \\ 1 & 2 & 4 \end{bmatrix}$ .

3. Find the inverse by partitioning method:  $A = \begin{bmatrix} 1 & 2 & 3 & 1 \\ 1 & 3 & 3 & 2 \\ 2 & 4 & 3 & 3 \\ 1 & 1 & 1 & 1 \end{bmatrix}$ .

4. Find the inverse of matrix by using partitioning method:  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 4 & 12 \end{bmatrix}$ .

5. Find the inverse of matrix by partitioning:  $A = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 2 & 3 & 1 \\ 1 & 3 & 3 & 2 \\ 2 & 4 & 3 & 3 \end{bmatrix}$ .

6. Find the rank of the matrix:  $\begin{bmatrix} 5 & 6 & 7 & 8 \\ 6 & 7 & 8 & 9 \\ 11 & 12 & 13 & 14 \\ 16 & 17 & 18 & 19 \end{bmatrix}$ .

7. Determine the rank of the matrix  $A = \begin{bmatrix} 1 & 2 & 3 & 0 \\ 2 & 4 & 3 & 2 \\ 3 & 2 & 1 & 3 \\ 6 & 8 & 7 & 5 \end{bmatrix}$ .

8. Find the rank of matrix  $A = \begin{bmatrix} 1 & -1 & -2 & -3 \\ 4 & 1 & 0 & 2 \\ 0 & 3 & 1 & 4 \\ 0 & 1 & 0 & 2 \end{bmatrix}$ .

9. Investigate for what values of  $\lambda$  and  $\mu$  the equations

$$x + y + z = 6, x + 2y + 3z = 10, x + 2y + \lambda z = \mu \text{ have :}$$

(i) no solution (ii) a unique solution (iii) an infinite solutions.

10. Test the consistency and solve:

$$5x + 3y + 7z = 4, \quad 3x + 26y + 2z = 9, \quad 7x + 2y + 10z = 5.$$

11. Test the consistency and solve:

$$x + y + z = 6, \quad x - y + 2z = 5, \quad 3x + y + z = 8.$$

12. Test the following system for consistency and solve it:

$$x + y + z = 6, \quad 2x + y + 3z = 13, \quad 5x + 2y + z = 12.$$

13. Investigate the values of  $\lambda$  and  $\mu$  so that the system of equations:

$$2x + 3y + 5z = 9, 7x + 3y - 2z = 8, 2x + 3y - \lambda z = \mu \text{ have :}$$

(i) no solution (ii) a unique solution (iii) an infinite solutions.

14. Test the consistency and solve:

$$x + y + z = 3, \quad x + 2y + 3z = 4, \quad x + 4y + 9z = 6.$$

15. Test the consistency and solve:

$$5x + 3y + 7z = 4, \quad 3x + 26y + 2z = 9, \quad 7x + 2y + 10z = 5.$$

16. Verify Cayley Hamilton Theorem for matrix  $A = \begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$  and express

$A^5 + 5A^4 - 6A^3 + 2A^2 - 4A + 7I$  as a linear polynomial in  $A$ .

17. Verify Cayley-Hamilton theorem for matrix  $A$ .

Hence find  $A^{-1}$ , where :  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 4 & 12 \end{bmatrix}$

18. Verify Cayley Hamilton Theorem for matrix  $A = \begin{bmatrix} 1 & 2 & 4 \\ 2 & 1 & 2 \\ 4 & 2 & 1 \end{bmatrix}$  and hence find  $A^{-1}$

## Unit IV

### Linear & Reducible to Linear D.E.

1. Solve:  $\frac{dy}{dx} = \frac{y+1}{(y+2)e^y-x}$ .
2. Solve:  $\frac{dy}{dx} + x\sin 2y = x^3 \cos^2 y$ .
3. Solve:  $\left[ \frac{e^{-2\sqrt{x}}}{\sqrt{x}} - \frac{y}{\sqrt{x}} \right] \frac{dx}{dy} = 1$ .
4. Solve:  $2x \frac{dy}{dx} = 10x^3 y^5 + y$ .
5. Solve:  $xy(x^2 y + 1) dx = dy$ .
6. Solve:  $\frac{dy}{dx} - y \tan x = 3e^{-\sin x}$ .
7. Solve:  $3y^2 \frac{dy}{dx} + 2xy^3 = 4xe^{-x^2}$ .
8. Solve:  $(1+x^2) \frac{dy}{dx} + y = e^{\tan^{-1} x}$ .
9. Solve:  $\frac{dy}{dx} + xy = x^3 y^3$ .
10. Solve:  $\frac{dy}{dx} = -\frac{xy^2}{2+x^2 y}$ .
11. Solve:  $\frac{dy}{dx} - \frac{\tan y}{1+x} = (1+x)e^x \sec y$ .
12. Solve:  $(1+y^2)dx = (\tan^{-1} y - x)dy$ .
13. Solve:  $(x+1) \frac{dy}{dx} - 2y = (x+1)^4$ .
14. Solve:  $(1+x) \frac{dy}{dx} - \tan y = (1+x)^2 e^x \sec y$ .
15. Solve:  $(1+x^2) \frac{dy}{dx} + y = e \tan^{-1} x$ .
16. Solve:  $\frac{dy}{dx} + \frac{y \log y}{x} = \frac{y(\log y)^2}{x^2}$ .
17. Solve:  $\frac{dx}{dy} = \frac{1+y^2+\cos^2 x}{y \sin 2x}$ .
18. Solve:  $\frac{dy}{dx} + y \tan x = y^3 \sec x$ .

### Exact Differential Equations:

1. Solve  $(2xy+y-\tan y)dx + (x^2 - x \tan^2 y + \sec^2 y)dy = 0$ .
2. Solve:  $\left[ y \left( 1 + \frac{1}{x} \right) + \cos y \right] dx + (x + \log x - x \cdot \sin y) dy = 0$ .
3. Solve:  $(y^2 e^{xy^2} + 4x^3) dx + (2xy e^{xy^2} - 3y^2) dy = 0$ .
4. Solve:  $\frac{dy}{dx} + \frac{x+y \cos x}{1+\sin x} = 0$ .
5. Solve:  $\left( 1 + e^{x/y} \right) dx + \left( 1 - \frac{x}{y} \right) e^{x/y} dy = 0$ .
6. Solve  $\frac{dx}{dy} = \frac{1+y^2+\cos 2x}{y \sin 2x}$ .
7. Solve:  $\frac{dy}{dx} + \frac{y \cos x + \sin y + y}{\sin x + x \cos y + x} = 0$ .

### First order & higher degree D.E.

1. Solve:  $p^2 + 2px + py + 2xy = 0$ .
2. Solve:  $y = x + 2 \tan^{-1} p$ .
3. Solve:  $(p - x^2)(p - xy)[p - y^2] = 0$ .
4. Solve:  $p^2 + 2p \cot x = y^2$ .
5. Solve:  $y = 2px + y^2 p^3$ .
6. Solve:  $p^3 - 4xyp + 8y^2 = 0$ .

### Applications of first order first degree D.E.:

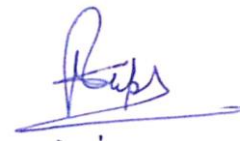
1. A resistance  $R = 50$  ohm and an inductance  $L = 10$  henries are connected in series with a constant voltage of  $E = 100$  volt. If the current is zero at  $t = 0$ . Find: (i) The equation of  $i$   
(ii) The current at  $t = 0.5$  seconds.
2. When a resistance  $R$  ohms is connected in series with an inductance  $L$  henries, an e.m.f. of  $E$  volts and current  $i$ ; amperes of time  $t$  is given by  $L \frac{di}{dt} + Ri = E$ . If  $E = 10 \sin t$  volts and  $i = 0$  when  $t = 0$ , find  $i$  as a function of  $t$ .
3. A  $20$  ohm resistor is connected in series with a capacitor of  $0.01$  farad and e.m.f.  $E$  volt given by  $40e^{-3t} + 20e^{-6t}$ . If  $q = 0$  at  $t = 0$ , show that the maximum charge on the capacitor is  $0.25$  coulomb.
4. When a resistance  $R$  ohms is connected in series with an inductance  $L$  henries and an e.m.f. of  $E$  Volts, the current  $i$  amperes at time  $t$  is given by,  $L \frac{di}{dt} + Ri = E$ . If  $E = E_0 \sin t$  volts and  $i = 0$  when  $t = 0$ . Find the current  $i$  as a function of  $t$ .

### Unit-IV

#### Higher Order Ordinary Differential Equations

1. Solve  $\frac{d^2y}{dx^2} + 4y = \cos 2x + e^{-2x}$
2. Solve  $\frac{d^2y}{dx^2} + 3\frac{dy}{dx} + 2y = e^x \sin x$
3. Solve  $\frac{d^2y}{dx^2} - 5\frac{dy}{dx} + 6y = e^{-2x} + \cos x$
4. Solve  $\frac{d^2y}{dx^2} + 4y = e^{3x} + \cos 2x$
5. Solve  $\frac{d^2y}{dx^2} + y = \cot x$  by method of variation of parameters.
6. Solve  $\frac{d^2y}{dx^2} - 6\frac{dy}{dx} + 9y = \frac{e^{3x}}{x^2}$  by method of variation of parameters.

7. Solve  $\frac{d^2y}{dx^2} + y = \cos ec x$  by method of variation of parameters.
8. Solve  $\frac{d^2y}{dx^2} - y = \frac{2}{1+e^x}$  by method of variation of parameters.
9. Solve  $x^2 \frac{d^2y}{dx^2} - 3x \frac{dy}{dx} + 5y = x \log x$
10. Solve  $x^2 \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} - 4y = x^2 + 2 \log x$
11. Solve  $x^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} - 3y = x^2 \log x$
12. Solve  $(1+x)^2 \frac{d^2y}{dx^2} + (1+x) \frac{dy}{dx} + y = 2 \sin \log(1+x)$
13. Solve  $(x+1)^2 \frac{d^2y}{dx^2} + (x+1) \frac{dy}{dx} + y = \sin \{2 \log(x+1)\}$
14. Solve  $\frac{d^2y}{dx^2} = \sec^2 y \tan y$ , given that  $y = 0$  and  $\frac{dy}{dx} = 1$ , when  $x = 0$
15. Solve  $\frac{d^2y}{dx^2} = 3\sqrt{y}$  under the conditions  $y = 1$ ,  $\frac{dy}{dx} = 2$ , when  $x = 0$
16. Solve  $\frac{d^2y}{dx^2} = 2(y^3 + y)$ , under the conditions  $y = 0$ ,  $\frac{dy}{dx} = 1$ , when  $x = 0$
17. Solve  $\cos^2 y \frac{d^2y}{dx^2} - \tan y = 0$ , under the conditions  $y = 0$ ,  $\frac{dy}{dx} = 1$ , when  $x = 0$
18. The differential equation for a circuit in which self-inductance and capacitance neutralize each other is  $L \frac{d^2i}{dt^2} + \frac{i}{C} = 0$ , find the current  $i$ .
19. An emf  $E \sin pt$  is applied at  $t = 0$  to a circuit containing capacitance  $C$  and inductance  $L$ . The current ' $i$ ' satisfied the equation  $L \frac{di}{dt} + \frac{1}{C} \int i dt = E \sin pt$ . If  $p^2 = \frac{1}{LC}$  and initially the current ' $i$ ' and charge ' $q$ ' are zero, show that the current at time  $t$  is  $\frac{Et}{2L} \sin pt$ , where  $i = \frac{dq}{dt}$
20. In an L-R-C circuit, the charge  $q$  on a plate of a condenser is give  $L \frac{d^2q}{dt^2} + R \frac{dq}{dt} + \frac{q}{c} = E \sin pt$ . The circuit is tuned to resonance so that  $p^2 = \frac{1}{LC}$ . If initially current ' $i$ ' and charge ' $q$ ' be zero, show that for small values of  $\frac{R}{L}$ , the current in the circuit at time  $t$  is given by  $\frac{Et}{2L} \sin pt$ .



Dr. (Mrs.) S. R. Suple

# Internal Test Schedule



PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR  
Department of B. Tech. First Year

Academic session 2022-23 (Second Semester)

NOTICE

Date: 06/05/2023

All the B.Tech. II Semester students are hereby informed that the **Class Test- I** is commencing from 09<sup>th</sup> May 2023. Kindly note the Time Table for the same. There will be regular classes after the exam.

For All Subjects :

Question Paper will be of 20 marks & one hour duration. Question Paper will be based on 2 Units.

\*Student should contact concern subject teachers for syllabus and other details.

Date	Name of the Subject	Time
09/05/2023 Tuesday	Mathematics-II	10.00 am to 11.00am
10/05/2023 Wednesday	Advanced Engineering Materials	10.00 am to 11.00am
11/05/2023 Thursday	Applied Chemistry	10.00 am to 11.00am
12/05/2023 Friday	Computational Skills	10.00 am to 11.00am
15/05/2023 Monday	Basics of Electrical Engineering	10.00 am to 11.00am
16/05/2023 Tuesday	Engineering Mechanics	10.00 am to 11.00am
17/05/2023 Wednesday	Indian Culture & Constitution	10.00 am to 11.00am

Mr. R. K. Bhorar  
In charge Internal Exam

Dr. (Mrs.) A. R. Chaudhari  
Coordinator B.Tech.-I Yr

Dr. N. K. Choudhari  
Principal

Priyadarshini Bhagwati College

Principal

Copy to: For circulation to all faculty members  
circulation to all the sections Notice Board.

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR  
Department of B. Tech. First Year

Academic session 2022-23 (Second Semester)

NOTICE

Date: 13/06/2023

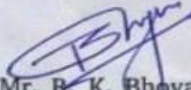
All the B.Tech. II Semester students are hereby informed that the Class Test-II is commencing from 16<sup>th</sup> June 2023. Kindly note the Time Table for the same. There will be regular classes after the exam.

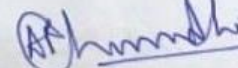
For All Subjects :

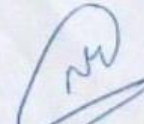
Question Paper will be of 20 marks & one hour duration. Question Paper will be based on 2 Units.

\*Student should contact concern subject teachers for syllabus and other details.

Date	Name of the Subject	Time
16/06/2023 Friday	Mathematics-II	10.00 am to 11.00am
17/06/2023 Saturday	Advanced Engineering Materials	10.00 am to 11.00am
19/06/2023 Monday	Applied Chemistry	10.00 am to 11.00am
20/06/2023 Tuesday	Computational Skills	10.00 am to 11.00am
21/06/2023 Wednesday	Basics of Electrical Engineering	10.00 am to 11.00am
22/06/2023 Thursday	Engineering Mechanics	10.00 am to 11.00am
23/06/2023 Friday	Indian Culture & Constitution	10.00 am to 11.00am

  
Mr. R. K. Bhojar  
In charge Internal Exam

  
Dr. (Mrs.) A. R. Chaudhari  
Coordinator B.Tech.-I Yr  
Coordinator First year  
Priyadarshini Bhagwati College  
of Engineering, Nagpur.

  
Dr. N. K. Choudhari  
Principal  
Principal  
Priyadarshini Bhagwati College of Engg.  
Umrad Road, Nagpur.

Copy to: For circulation to all faculty members For  
circulation to all the sections Notice Board.

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

**Department of B. Tech. First Year**

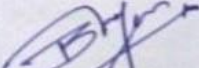
Academic session 2022-23 (Second Semester)

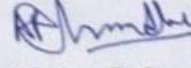
Date: 20/06/2023

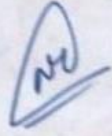
All the Students of B.Tech. II Semester are hereby informed that Sessional Examination is commencing from 24<sup>th</sup> June 2023. Kindly note the Time Table for the same is given below.

\*Student should contact concern subject teachers for syllabus and other details.

DATE	NAME OF THE SUBJECT	TIME
24/06/2023 Saturday	Indian Culture & Constitution	11.00 am -1.00 pm
26/06/2023 Monday	Mathematics-II	11.00 am -2.00 pm
27/06/2023 Tuesday	Advanced Engineering Materials	11.00 am -2.00 pm
28/06/2023 Wednesday	Applied Chemistry	11.00 am -2.00 pm
30/06/2023 Friday	Computational Skills	11.00 am -1.00 pm <sup>0</sup>
01/07/2023 Saturday	Basics of Electrical Engineering	11.00 am -1.00 pm
03/07/2023 Monday	Engineering Mechanics	11.00 am -1.00 pm

  
Mr. B. K. Bhojar  
In charge Internal Exam

  
Dr. (Mrs.) A. R. Chaudhari  
Coordinator B.Tech.-I Yr  
**Coordinator First Year**  
Priyadarshini Bhagwati College of Engineering, Nagpur.

  
Dr. N. K. Choudhari  
Principal  
**Principal**  
Priyadarshini Bhagwati College of Engg.  
Umrad Road, Nagpur.

Copy to: For circulation to all faculty members  
For circulation to all the sections  
Notice Board

**Class Test -I**

SEATING PLAN

**Engg. Drawing Hall**



SECTION – E

ENTRY


E-51	E-41	E-31	E-21	E-11	E-01
E-52	E-42	E-32	E-22	E-12	E-02
E-53	E-43	E-33	E-23	E-13	E-03
E-54	E-44	E-34	E-24	E-14	E-04
E-55	E-45	E-35	E-25	E-15	E-05
	E-46	E-36	E-26	E-16	E-06
	E-47	E-37	E-27	E-17	E-07
	E-48	E-38	E-28	E-18	E-08
	E-49	E-39	E-29	E-19	E-09
	E-50	E-40	E-30	E-20	E-10


From: E-01 To E-55 = 55

Seating Arrangement

CLASS TEST-II EXAMINATION

Sr. No	Room No.	Sec	Roll No.	Class wise Strength	Total Strength
1	G-1	A	A-01 TO A-40	40	40
2	G-2	A	A-41 TO A-56	16	40
		B	B-01 TO B-24	24	
3	G-3	B	B-25 TO B-56	32	40
		C	C-01 TO C-08	08	
4	G-4	C	C-09 TO C-48	40	40
5	G-6	C	C-49 TO C-56	08	40
		D	D-01 TO D-32	32	
6	Tutorial Room	D	D-33 TO D-56	24	24
7	ED Hall	E	E-01 TO E-55	55	55

  
 Mr. B.K. Bhoyar  
 Internal Examination In charge

  
 Dr. (Mrs.) A.R. Chaudhari  
 B.Tech.First Year Coordinator

Internal Test  
Sample Question  
Paper



Priyadarshini Bhagwati College of Engineering, Nagpur

Department of B.Tech. First Year

Academic Session: 2022-23

B.Tech. First Year (Sem I)

Subject: Applied Mathematics-I  
Max. Marks: 20

Class Assessment Test-II  
Time: 1 Hr.

Note: Solve any two questions.

Q.1- a)  $\frac{d^2y}{dx^2} - 5\frac{dy}{dx} + 6y = e^{2x} + \cos x$  (5)

b)  $\frac{d^2y}{dx^2} - 6\frac{dy}{dx} + 9y = \frac{e^{3x}}{x^2}$  by using method of variation of Parameter. (5)

OR

Q.2- a)  $\frac{d^2y}{dx^2} + 5\frac{dy}{dx} + 6y = e^{-2x} \sin 2x$  (5)

b)  $x^3 \frac{d^2y}{dx^2} + 3x^2 \frac{dy}{dx} + xy = x^2 \sin(\log x)$  (5)

Q.3 a) If  $y = a \cos(\log x) + b \sin(\log x)$  then show that  
 $x^2 y_{n+2} + (2n+1)x y_{n+1} + (n^2+1)y_n = 0$  (5)

b) Expand  $2x^3 + 7x^2 + x - 7$  in powers of  $(x-2)$  (5)

OR

Q.4 a) If  $y = e^{\tan^{-1}x}$  then prove that  
 $(x^2+1)y_{n+2} + [2(n+1)x - 1]y_{n+1} + n(n+1)y_n = 0$  (5)

b) Evaluate the limit:  $\lim_{x \rightarrow 0} \frac{x \cos x - \sin x}{x^2 \sin x}$  (5)



Name and signature of Subject Teacher

Dr. (Mrs.) S. R. Suple



Internal Test  
Sample  
Attendance Sheet

PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR

Department of B.Tech. Second Semester

CAT-II Examination - Session 2022-23

ATTENDANCE SHEET

SECTION : C

ROOM NO.: G-4

ROLL NO.	NAME OF STUDENT	16/06/2023	17/05/2023	19/06/2023	20/06/2023	21/06/2023	22/06/2023	23/06/2023
		M-II	AEM	AC	Comp.Sk	BEE	EM	IC&C
C-27	Mr. Aditya P. Meshram	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-28	Mr. Asif Jamal Daudi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-29	Mr. Ayush A. Kakde	AB	(AB)	(AB)	-AB-	(AB)	(AB)	-
C-30	Mr. Bhojeshwar D. Sahare	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	(AB)	(AB)	-
C-31	Mr. Chaitanya R. Mohajankar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-32	Mr. Himanshu S. Shembekar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-33	Mr. Kushal Sharad Hadke	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-34	Mr. Manthan Sunil Zade	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-35	Mr. Mayur D. Gawande	AB	(AB)	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-36	Mr. Nikhil S. Singanjude	N.S.Singanjude	N.S.Singanjude	N.S.Singanjude	N.S.Singanjude	N.S.Singanjude	N.S.Singanjude	N.S.Singanjude
C-37	Mr. Nikitesh Arvind Meshram	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-38	Mr. Nishant R. Gadiwan	(Nadiwan)	(Nadiwan)	(Nadiwan)	(Nadiwan)	(Nadiwan)	(Nadiwan)	(Nadiwan)
C-39	Mr. Nishant Ravindra Jadhao	N.R.Jadhao	N.R.Jadhao	N.R.Jadhao	N.R.Jadhao	N.R.Jadhao	N.R.Jadhao	N.R.Jadhao
C-40	Mr. Pankaj J. Bawankar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	(AB)	<i>[Signature]</i>	<i>[Signature]</i>
C-41	Mr. Piyush Rambhau Charde	<i>[Signature]</i>	<i>[Signature]</i>	Piyush	<i>[Signature]</i>	(AB)	<i>[Signature]</i>	<i>[Signature]</i>
C-42	Mr. Prajwal R. Ramdham	P.R.Ramdham	P.R.Ramdham	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
C-43	Mr. Prashant Baban Jibhkate	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR**

Department of B.Tech. Second Semester

**CAT-II Examination - Session 2022-23**

**ATTENDANCE SHEET**

SECTION : C

ROOM NO.: G-4

ROLL NO.	NAME OF STUDENT	16/06/2023	17/05/2023	19/06/2023	20/06/2023	21/06/2023	22/06/2023	23/06/2023
		M-II	AEM	AC	Comp.Sk	BEE	EM	IC&C
C-44	Mr. Pratik Arun Mohod	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>
C-45	Mr. Richitva Ajay Dhoke	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>	<u>R.A. Dhoke</u>
C-46	Mr. Ritesh Ruprao Musale	<u>R. P. Musale</u>	<u>R. P. Musale</u>	<u>R. P. Musale</u>	<u>R. P. Musale</u>	<u>R. P. Musale</u>	<u>R. P. Musale</u>	<u>R. P. Musale</u>
C-47	Mr. Sarthak Narendra Shelote	<u>S.N. Shelote</u>	<u>S.N. Shelote</u>	<u>S.N. Shelote</u>	<u>S.N. Shelote</u>	<u>S.N. Shelote</u>	<u>S.N. Shelote</u>	-
C-48	Mr. Shantanu R. Wankhede	AB	AB	(AB)	- AB -	(AB)	- (AB) -	-
<b>Total no. of students Present</b>		37	37	38	36	35	37	33
<b>Total no. of students Absent</b>		03	03	02	04	05	03	07
<b>Total</b>		40	40	40	40	40	40	40
<b>Signature of Invigilator</b>		<u>Apatis</u>	<u>SR</u>	<u>SR</u>		<u>21/6/23</u>	<u>A-M site</u>	<u>sum.</u>

(AA) [Signature]

**Coordinator First year**  
Priyadarshini Bhagwati College  
of Engineering, Nagpur

(NW)

**Principal**  
Priyadarshini Bhagwati College of Engg.  
Umred Road Nagpur.

# Final Year Project Review



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcce@gmail.com, Website: www.pbcce.edu.in  
*NAAC Accredited*



---

## Department of Computer Science and Engineering

### NOTICE

All the students of BE. VIII Sem CSE Department are hereby informed that, Dept of CSE is conducting Activity on “PROJECT EVALUATION BY EXPERT LECTURE”. The details are as follows.

**Date: 15<sup>th</sup> April 2023**

**Time: 11.00 am to 4:00 pm**

**Event Coordinator: Prof. D. V. Jamthe**

**Venue: Computer Centre, PBCOE**

All are informed to attend the same.

**K. N. Hande**  
**HOD**  
Head of Department  
Department of Computer Sc. & Engg.  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur - 24.



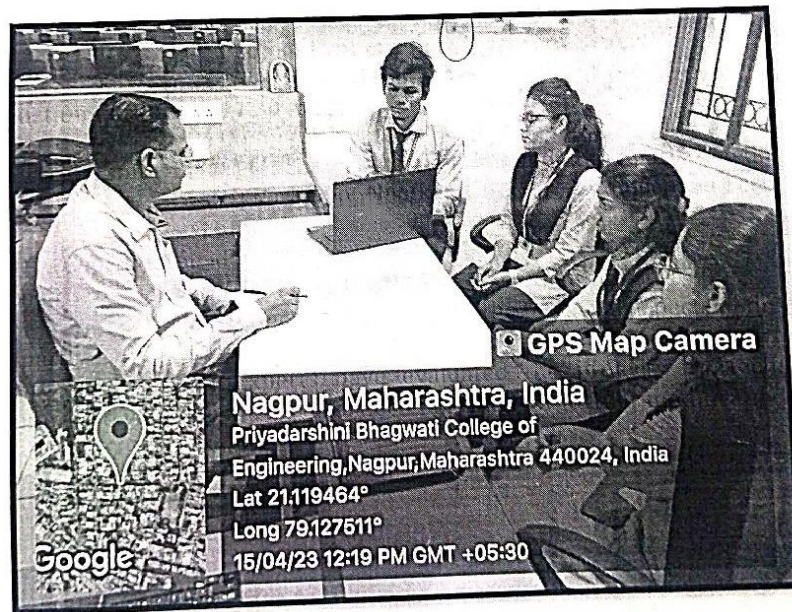
Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**

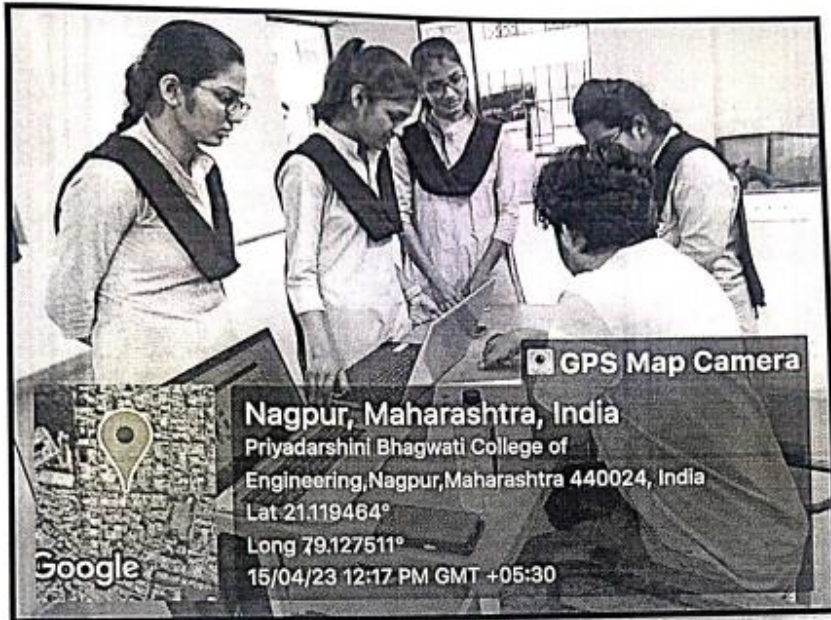


**Department of Computer Science and Engineering**  
**Academic session 2022-23**

**Report of Activity on Project Evaluation by External Experts**

1. Event Title : **Project Evaluation by External Experts**
2. Event Date : 15 April 2023 (Saturday)
3. Event conduction duration : 11.30 AM to 2.30 PM
4. Event venue : Computer Centre, PBCOE, Nagpur.
5. Event resource person : a) Mr Samyak Agarkar, MD and CEO, Agarkar Media Pvt Ltd, Nagpur.  
b) Mr Kishor Nilatkar, Director, Automechano Technologies, Nagpur
6. Name of Event Coordinator : Prof D V Jamthe
7. Sem/Branch : VIII SEM B TECH CSE ( 72 students)
8. Objective : To evaluate and access the technical aspects of final year projects by industry experts.
9. Outcome : Experts have evaluated the projects for technical novelty and working demo. Also valuable inputs have been provided for further modifications and suggestions.





*Handwritten signature of Prof. K N Hande*  
15/4/23

**Prof. K N Hande**  
HoD

**Head**

**Computer Science & Engineering Department**  
**Priyadarshini Bhagwati College of Engineering**  
**Umred Road, Nagpur.**

*Handwritten signature of Dr. Mrs A R Chaudhari*

**Dr. Mrs A R Chaudhari**  
IQAC Coordinator

**IQAC Coordinator**

**Priyadarshini Bhagwati College of Engg.**  
**Umred Road, Nagpur.**

*Handwritten signature of Dr. N. K. Choudhari*

**Dr. N. K. Choudhari**  
Principal

**Principal**

**Priyadarshini Bhagwati College of Engg.**  
**Umred Road, Nagpur.**



Lokmatya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



Date: 13/04/2023

To  
Mr Kishor Nilatkar,  
Director,  
Automechano Technologies,  
Nagpur.

### *Invitation Letter*

Dear Sir,

On behalf of Dept of CSE, Priyadarshini Bhagwati College of Engineering, Nagpur, we are pleased to invite you to participate as an evaluator for our upcoming student project evaluation event of **VIII Sem B.E.(CSE)**. The event is scheduled to be held on **15 April 2023 at 11.00 am** at our campus. We would be honored to have you as one of our esteemed evaluators.

At PBCOE, we believe in providing our students with a well-rounded education that includes practical application of their skills and knowledge. The student project evaluation event is an integral part of our curriculum, where students showcase their projects and receive feedback from industry experts like yourself.

We greatly appreciate your consideration to participate in this event and contribute to the learning journey of our students. Your expertise and insights will be invaluable to our students and greatly appreciated by our faculty and staff.

Thank you in advance for your support and we look forward to your presence at our student project evaluation event.

Sincerely,



(Dr. N. K. Choudhari)  
Principal  
Principal

Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur





Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
*NAAC Accredited*



Date: 13/04/2023

To  
Mr Samyak Agarkar,  
MD and CEO,  
Agarkar Media Pvt Ltd, Nagpur.

### *Invitation Letter*

Dear Sir,

On behalf of Dept of CSE, Priyadarshini Bhagwati College of Engineering, Nagpur, we are pleased to invite you to participate as an evaluator for our upcoming student project evaluation event of VIII Sem B.E.(CSE). The event is scheduled to be held on 15 April 2023 at 11.00 am at our campus. We would be honored to have you as one of our esteemed evaluators.

At PBCOE, we believe in providing our students with a well-rounded education that includes practical application of their skills and knowledge. The student project evaluation event is an integral part of our curriculum, where students showcase their projects and receive feedback from industry experts like yourself.

We greatly appreciate your consideration to participate in this event and contribute to the learning journey of our students. Your expertise and insights will be invaluable to our students and greatly appreciated by our faculty and staff.

Thank you in advance for your support and we look forward to your presence at our student project evaluation event.

Sincerely,



(Dr. N. K. Choudhari)

Principal  
Principal

Priyadarshini Bhagwati College of Engg  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Hada Talbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



**Department of Computer Science and Engineering**

**Academic Session 2022-23(EVEN SEMESTER)**

**PROJECT EVALUATION BY EXTERNAL EXPERT**

**B.E. VIII SEMESTER CSE**

**Attendance Sheet**

**Date & Time - 15/04/2023 at 10.30am**

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
4	154	Hrushi Vikas Karlekar (TL)	MR K N HANDE	NLP based video Summerisation using Machine Learning	
	163	Pranit Rambhau Yeole			
	142	Aditya Pushpraj Likhari			
	153	Himanshu Rajesh Rangari			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
9	125	Pooja Dilip Taklikar (TL)	MR K N HANDE	Design & Development of Automatic Detection System for MotorCyclistswithout Helmet using ML	
	126	Pranjali Sudhir Bawankar			
	115	Lekha Sunil Bhojar			
	162	Piyush Prakash Navghare			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
13	152	Gitesh Narendra Sawarkar (TL)	MR K N HANDE	Secure and Transparent Crowd-funding platformusing Blockchain	
	165	Pratik Kapse			
	166	Raunak Modak			
	156	Kaustubh Dharmare			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
1	129	Sakshi Rajesh Dosani	MS A A NIKOSE	Decentralized Social Media platform using node.js	
	132	Shreya Suryabhan Pardhi			
	146	Anurag Gajendra Jais			
	148	Deep Suresh Nikode			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
5	104	Anjali Vaidya(TL)	MS A A NIKOSE	"Cryptofit"-Web 3.0 Decentralized App for Tracking Real-Time Data and Performance of Cryptocurrencies in Market	
	128	Rashmi Jadhav			
	144	Aman Punekar			
	135	Srushti Lokhande			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
14	147	Astik Sayare(TL)	MS A A NIKOSE	Automatic Image Caption generator	
	159	Mithesh Pounikar			
	145	Ankit Mahale			
	157	Keshav Lichade			

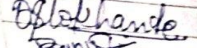
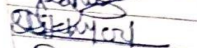
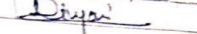
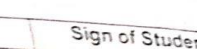
Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Student
16	141	Aayush Hatwar (TL)	MS A A NIKOSE	Cafeteria Food Ordering System using QR Code	
	102	Akshata Nikose			
	114	Khushi Gaharwar			
	149	Dhananjay Adikane			

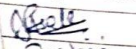


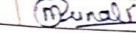
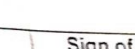
Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
2	160	mohd Adnan Chodhary (TL)	MR D B KHADSE	IOT based Farm Irrigation and Fertilizer Recommendation System	Adnan
	169	Taufim Sheikh			Sheikh
	164	Prasad Zade			Prasad




Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
11	155	Ishan Zade (TL)	MR D B KHADSE	Fake Product Detection using Block-chain Technology	Ishan
	121	Nishtha Kalra			Nishtha
	136	Taniya Argulewar			Taniya

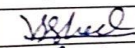
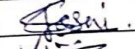
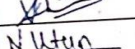
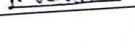
Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
15	109	Gauri Atilkar (TL)	MR D B KHADSE	Age, Gender and Emotion Detection by using Deep Learning	Gauri
	111	Ishika Ukey			Ishika
	124	Payal Mankar			Payal

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
19	150	Gaurav Gawhane (TL)	MR D B KHADSE	Block-chain based Decentralized E-Voting System	Gaurav
	161	Nehal Bakde			Nehal
	101	Aishwarya Sahare			Aishwarya
	103	Alkesha Barapatre			Alkesha

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
3	106	Dhanashree Lokhande (TL)	MS S S WANKHEDE	Human Activity Recognition using Android Studio Smartphone	   
	127	Ranu Temre			
	116	Likhita Wanjari			
	108	Divyani Mandpati			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
6	171	Siddhant Vijay Asole (TL)	MS S S WANKHEDE	Story Hub	    
	134	Sonal Namdeo Yeskar			
	110	Gauri Rajan Lokhande			
	140	Yashvi Raju Chilankar			
	119	Mrunali Manoj Urade			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
8	138	Vaishnavi Desai (TL)	MS S S WANKHEDE	IPL win Probability Predictor	  
	137	Vaibhavi Desai			
	107	Disha Rajeshwar Tangade			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
12	139	Vishakha Shende (TL)	MS S S WANKHEDE	Skin Cancer Prediction using Deep Learning	   
	133	Siddhi Nandkishor Joshi			
	173	Vinay Vijay Hiwanj			
	122	Nutan Vasantrya Wasnik			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
7	168	Samay Namdeo Chaudhari (TL)	MR D V JAMTHE	Money laundering Detection	
	167	Rushikesh Ashish Borkar			
	172	Tejas Ravi Wankhede			
	170	Shoeb Sheikh			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
10	113	Kanchan Santosh Kothar	MR D V JAMTHE	Intelligent Office Assistant using Machine Learning	
	120	Nikita Pralhad Nagpurkar			
	131	Shraddha Bhaskar Barsagade			
	117	Mahima Satish Barde			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
17	158	Mihir Parmar (TL)	MR D V JAMTHE	Web Application on Gaming Products	
	105	Chaitanya Janabandhu			
	112	Kajal Mhaiskar			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Sign of Students
18	143	Aman Bajait (TL)	MR D V JAMTHE	Property CRM in Web and Android	
	130	Sakshi Chaware			
	151	Gaurav Verma			
	118	Mitali Wandhare			

12/11/23  
Mr. D. V. Jamthe  
B E VIII Semester Project Incharge

Mr. K. N. Hande  
HoD, CSE Department  
Head  
Computer Science & Engineering Department  
Princess's Bhagwati College of Engineering  
Mumbai, India.



Lokmanya Tilak Jankalyan Shiksha Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
 Harpur Nagar, Unred Road (Near Bada Tajbagh), Nagpur-24  
 (Approved by AICTE, New Delhi, Govt. of Maharashtra  
 and affiliated to Rashtrasant Tuldoji Maharaj Nagpur University)  
 Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



**Department of Computer Science and Engineering**  
**Academic Session 2022-23 (EVEN SEMESTER)**  
**PROJECT EVALUATION BY EXTERNAL EXPERT**

**B.E. VIII SEMESTER CSE**

Attendance Sheet

Date & Time - 15/04/2023 at 10.30am

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
4	154	Hrushika Vikas Karlekar (TL)	MR K N HANDE	NLP based video Summerisation using Machine Learning	Pycharm IDE is used, student works but in coding, nice ideas; practical working, demonstration looks good overall good work. 2 new ideas.
	163	Pranit Rambhau Yeole			
	142	Aditya Pushpraj Likhari			
	153	Himanshu Rajesh Rangari			
9	125	Pooja Dilip Taklikar (TL)	MR K N HANDE	Design & Development of Automatic Detection System for Motorcyclists without Helmet using ML	opencv, yellow yolo v3, OCR, tensorflow Demo is working, Helmet detection & No. plate detection working, shows contribution in working..
	126	Pranjali Sudhir Bawankar			
	115	Lekha Sunil Bhojar			
	162	Piyush Prakash Navghare			
13	152	Gitesh Narendra Sawarkar (TL)	MR K N HANDE	Secure and Transparent Crowd-funding platform using Blockchain	Ganache, Solidity, PL, HTM, Bootstrap CSS, web3 JS, MPM. New idea, blockchain technology. Contribution in project. Code was semi presented.
	165	Pratik Kapse			
	166	Raunak Modak			
	156	Kaustubh Dharmare			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
1	129	✓ Sakshi Rajesh Dosani	MS A A NIKOSE	Decentralized Social Media platform using node.js	React, Express.js, Node.js, MongoDB. Contribution in code, well thought Common idea in advance presentation demo presented, working good.
	132	✓ Shreya Suryabhan Pardhi			
	146	✓ Anurag Gajendra Jais			
	148	✓ Deep Suresh Nikode			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
5	104	✓ Anjali Vaidya(TL)	MS A A NIKOSE	"Cryptofit"-Web 3.0 Decentralized App for Tracking Real-Time Data and Performance of Cryptocurrencies in Market	coingecko, Angular, Node.js. Contribution in project work. New ideas in investment. Demo presentation. working good.
	128	✓ Rashmi Jadhav			
	144	✓ Aman Puneekar			
	135	✓ Srushti Lokhande			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
14	147	✓ Astik Sayare(TL)	MS A A NIKOSE	Automatic Image Caption generator	Long Short Term Memory LSTM Python, CNN, RNN, MLP Demo presented, Nice idea to convert image into text presented.
	159	✓ Mithesh Pounikar			
	145	✓ Ankit Mahale			
	157	✓ Keshav Lichade			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
16	141	✓ Aayush Hatwar (TL)	MS A A NIKOSE	Cafeteria Food Ordering System using QR Code	7.3. PHP, Laravel, JavaScript, CSS, MySQL, Bootstrap, demo is working, presentation is good. the best most contribution.
	102	✓ Akshata Nikose			
	114	✓ Khushi Gaharwar			
	149	✓ Dhananjay Adikane			



Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
2	160	✓ mohd Adnan Chodhary (TL)	MR D B KHADSE	IOT based Farm Irrigation and Fertilizer Recommendation System	Arduino R3, Android, Mobile App. Demo presented & working. New idea, commercial idea. IOT good project, student shows ext contribution in projects.
	169	✓ Taufim Sheikh			
	164	✓ Prasad Zade			

Group No	Roll No.	Name of Students	Name of Guide	Project Title	Remark/Suggestion
11	155	Ishan Zade (TL)	MR D B KHADSE	Fake Product Detection using Block-chain Technology	Blockchain, React.js, Node.js, mysql; Demo working. Need some improvement. Some contribution in project.
	121	Nishtha Kalra			
	136	Taniya Argulewar			

*Kishor Khatke*  
 Mr. Kishor Khatke  
 Director,  
 Automechena Technologies,  
 Nagpur.

*Dhresh*  
 15/4  
 (D.V. Jambhe)

*K N Hande*  
 H.O.D. CSE

**Head**  
 Computer Science & Engineering Department  
 Priyadarshini Bhagwati College of Engineering  
 Unwed Road, Nagpur.

*Sany*  
 Mr. Sanyak V. Agarkar  
 MD & CEO  
 Agarkar Media Pvt. Ltd.

Add  
On/Certificate  
Courses



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
*NAAC Accredited*




**Department of B.Tech First Year**  
**Academic session 2022-2023 (Even Sem)**

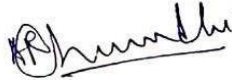
**NOTICE**

Date: 21/03/2023

All the students of B.Tech First Semester are hereby inform that our department is organising a one month free certification course on "Building Blocks of Civil & Mechanical Engineering" with the objective to enhance the practical skills of students in engineering mechanics and basic mechanical engineering demanded in any field of application. Prof. A.M.Sorte & Prof. S.P.Gurway will be coordinating the course conduction. Participation certificates will be provided to all the students who registered for the same. The detailed content of the course and schedule is attached herewith the notice.

Sr.No	Name of Course	Date of Commencement	Venue
1.	"Building Blocks of Civil & Mechanical Engineering"	03/04/2023	Engineering Mechanics lab, CAD Lab, Machine Lab

  
Principal  
Priyadarshini Bhagwati College of Engg.  
Umred Road Nagpur



Dr.(Mrs.) A.R.Chaudhari  
Coordinator B.Tech First Year



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Haripur Nagar, Unnised Road (Near Bada Talbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)  
Email: principalphcoe@gmail.com, Website: www.phcoe.edu.in  
*NAAC Accredited*



**Department of B.Tech First Year**  
**Academic session 2022-2023 (Even Sem)**

---

**Syllabus**

**Introduction**

Mechanical and Civil branches are the core branches of engineering finding its application in every aspect of common as well as technical life. To make aware about some important yet simple technicalities as well as applications of the basics of these two branches, we have designed a certificate course on **“Building Blocks of Civil and Mechanical Engineering.”** This module is gist of application based practical of civil and mechanical engineer including use of software in for the same. Students of second semester B.Tech will undergo this course followed by test and evaluation and summative assessment grade certificate to the students who clear the assessment.

**Objective of the Course:**

1. To make the student aware about the practical based application of engineering mechanics.
2. To make the student aware about working of machines for manufacturing application.
3. To make the student aware about use of software for drafting and designing.
4. To make the student aware about automated machining like CNC.

**Course Outcomes:**

**After completion of this Course Student will be able to:**

1. Describe the concept of Engineering mechanics & its application.
2. Explain the concept of friction and its application.
3. Explain the concept of lami's theorem and free body diagram.
4. Perform the basic machining operation on lathe machine.
5. Draw basic geometric shapes using FREECAD Software.
6. Write a part program using G and M code in CNC part programming.
7. Perform simple miscellaneous operations on CNC lathe machine.

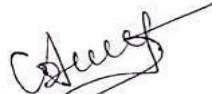
**Course Name: "Building Blocks of Civil & Mechanical Engineering"**

Sr. No	Modules	No. of Hours
1.	Basic terms and Axioms of Engg mechanics.	03
2.	To find experimentally Co-Efficient of Friction by inclined plane friction apparatus.	03
3.	To study experimentally law of Triangle by Jib crane apparatus.	03
4.	To find experimentally the reactions at the supports of a simply supported beam and compare the results with analytical values.	03
5.	To determine coefficient of friction using coil friction set up.	03
6.	To study the lathe machine & its part & to perform simple turning and facing operation on lathe machine on cylindrical work piece setting on lathe machine	03
7	To learn basic drafting of 2D geometric shapes with FreeCAD software.	03
8	Introduction to CNC Lathe machines and Part Programing	03
9	Create basic geometric objects such as lines, circles, and hatched areas using AUTOCAD software	03
10	Study the mold making and casting process in detail.	03
	<b>Total</b>	30



Ms.S.P.Gurway

**Prog. Coordinator**



Ms.A.M.Sort

**Prog. Coordinator**



Dr.(Mrs.) A.R.Chaudhari

**Coordinator B.Tech First Year**



**Principal**  
Sriyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
*NAAC Accredited*



**Department of B.Tech First Year**

**Academic session 2022-2023 (EVEN SEM)**

**Schedule of certification course on “Building Blocks of Civil & Mechanical Engineering”**

Sr. No	Modules	No. of Hours	Date
1.	Basic terms and Axioms of Engg mechanics.	03	03/04/2023
2.	To find experimentally Co-Efficient of Friction by inclined plane friction apparatus.	03	04/04/2023
3.	To study experimentally law of Triangle by Jib crane apparatus.	03	05/04/2023
4.	To find experimentally the reactions at the supports of a simply supported beam and compare the results with analytical values.	03	06/04/2023
5.	To determine coefficient of friction using coil friction set up.	03	07/04/2023
6.	To study the lathe machine & its part & to perform simple turning and facing operation on lathe machine on cylindrical work piece setting on lathe machine	03	08/04/2023
7.	To learn basic drafting of 2D geometric shapes with FreeCAD software.	03	10/04/2023
			11/04/2023
			12/04/2023
8.	Introduction to CNC Lathe machines and Part Programing	01	13/04/2023
		02	15/04/2023
9.	Create basic geometric objects such as lines, circles, and hatched areas using AUTOCAD software	01	17/04/2023
		01	18/04/2023
		01	19/04/2023
10.	Study the mold making and casting process in	03	20/04/2023

	detail.		21/04/2023
			24/04/2023
	Objective Type Test on Topics Covered in Course.	01	24/04/2023
	<b>Total</b>	31Hrs.	



Ms.S.P.Gurway

Prog. Coordinator



Ms.A.M.Sorte

Prog. Coordinator



Dr.(Mrs.) A.R.Chaudhari

Coordinator B.Tech First Year



Principal  
 Prayadarshini Bhagwat College of Engg.  
 Unred Road Nagpur.



Lokmanya Tilak Jankalyan Shikshan Sanstha  
PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING  
Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
NAAC Accredited



Department of B.Tech First Year  
Academic session 2022-2023 (Even Sem)



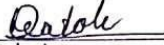

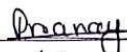
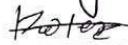
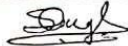
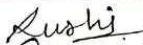
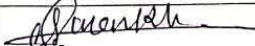
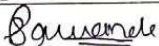
Certificate Course on "Building Blocks of Civil & Mechanical Engineering"


List of Participants

Sr.No	Name of Student	Signature of Student
1.	Ms. Akhal Khandal	Akhal
2.	Ms. Anam Qadir Khan	Anam
3.	Ms. Anishka P. Mungale	Anishka
4.	Ajumanal Mahak. S. Shaikh	Ajumanal
5.	MS. Astha A. Kapoor	Astha
6.	Ms. Bhagyashree W. Hatwar	Hatwar
7.	Ms. Isha A. Tale	Isha
8.	Ms. Janvi P. Khotale.	Janvi
9.	Ms. Khushi D Khole	Khushi
10.	Ms. Khushi Beshkondwar	Khushi
11.	Ms. Khushi Das	Khushi
12.	Ms. Komal S. Taksande	Komal
13.	Ms. Kumkum B Jarwekar	Kumkum
14.	Ms. Namrata S. Shivastkar	Namrata
15.	Ms. Payal P. Mahajan	Payal
16.	Ms. Priti G. Pandey	Priti Pandey
17.	Ms. Priya G. Nitale	Priya
18.	Ms. Samiksha Ballal	Samiksha
19.	Ms. Shreuti D. Gaybhiye	Shreuti




Sr.No	Name of Student	Signature of Student
20)	Shruti S. Sorte.	<u>Shruti</u>
21)	Shubhangi P. Dhenge	<u>S. Dhenge.</u>
22)	Triveni R. Chauhan	<u>T.R.</u>
23)	Trupti K. Kukade	<u>T.K.Kukade</u>
24)	Umama L. Sheikh.	<u>U. Sheikh</u>
25)	Vaibhavi P. Dakhane	<u>V. Dakhane</u>
26)	Zeenat S. Sheikh	<u>Z. Sheikh</u>
27)	Aditya R. Sunde	<u>A. R. Sunde</u>
28)	Mrs. Anshul. Gredkar	<u>A.</u>
29)	Anurag M. Sewatkar	<u>Anurag</u>
30)	Ashwin N. Pandey	<u>A. Pandey.</u>
31)	Arun K. Motghare	<u>A. Motghare</u>
32)	Ashwin M. Thakur	<u>A. Thakur</u>
33)	Bhushan D. Nagpure	<u>B. Nagpure</u>
34)	Deepak P. Tete	<u>Deepak</u>
35)	Deepak S. Dhale	<u>D. Dhale</u>
36)	Devanshu K. Junghare	<u>D. Junghare</u>
37)	Gaureav P. Navalekhete	<u>G. Navalekhete</u>
38)	Harsh P. Zade	<u>H. Zade</u>
39)	Harsh S. Dhabale	<u>H. Dhabale</u>
40)	Harsh S. Bawane	<u>H. Bawane</u>
41)	Harshal P. Borkar	<u>H. Borkar</u>
42)	Harshal R. Bhade	<u>H. Bhade</u>
43)	Himanshu R. Dongre	<u>H. Dongre</u>
44)	Kartik V. Gujarkar	<u>K. Gujarkar.</u>

Sr.No	Name of Student	Signature of Student
45	Mayur A. Shrikhande	
46	Nikhil. N. Bhingade	
47	Om. H. Deotale	
48	Pranav .v. Kharkar	
49	Pranav .p. Gaidkewad	
50	Rugved m Rasparke	
51.	Rupak S. Tayde.	
52.	Rushi. Khedekar	
53	Sujal s wamkhele	
54	Sumant.k. Guwande	

  
Ms.S.P.Gurway  
Prog. Coordinator

  
Ms.A.M.Sorte  
Prog. Coordinator

  
Dr.(Mrs.) A.R.Chaudhari  
Coordinator B.Tech First Year

  
**Principal**  
Priyadarshini Bhagwati College of Engg.  
Unred Road Nannur.



Lokmanya Tilak Jankalvan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
 Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
 (Approved by AICTE, New Delhi, Govt. of Maharashtra  
 and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
 Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



Department of B.Tech First Year  
 Academic session 2022-2023 (Even Sem)

ATTENDANCE SHEET

Certificate Course on Building Blocks of Civil & Mechanical Engineering

Sr.No	Name of Student	3/4/23	4/4/23	5/4/23	6/4/23	7/4/23	8/4/23	10/4	11/4	12/4	13/4	15/4	17/4	18/4	19/4	20/4	24/4	24/4
1	Ms. Achal Pandhari Khandal	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
2	Ms. Anam Qadir Khan	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P
3	Ms. Anshka Premdas Mungale	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
4	Ms. Arjumand mahak Shabbar Sheikh	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
5	Ms. Astha Avesh Kapoor	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
6	Ms. Bhagyashri Wasudeo Hatwar	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
7	Ms. Ishia Arun Tale	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
8	Ms. Janvi Pravin Khotele	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
9	Ms. Khushi Dilip Khole	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
10	Ms. Khushi Kishor Budhkondwar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Ms. Khushi Laxman Das	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Ms. Komal Sunil Taksande	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	Ms. Kumkum Bhaskar Jarwekar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Ms. Namrata Shatrughna Shiwarkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	Ms. Payal Puran Mahajan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P

		3	3	3	3	3	3	3	10/4	11/4	12/4	13/4	15/4	17/4	18/4	19/4	20/4	21/4	24/4	
16	Ms. Priti Gyanchandra Pandey	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
17	Ms. Priya Ganpat Nahale	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P
18	Ms. Samiksha Amol Ballal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
19	Ms. Shruti digambar Gajbhaye	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
20	Ms. Shruti Someshwar Sorte	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
21	Ms. Shubhangi Pramod Dhenge	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
22	Ms. Triveni Rajabhau Chavhan	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P
23	Ms. Trupti Krishnakant Kukade	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P
24	Ms. Umama Latif Sheik	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
25	Ms. Vaibhavi Prabhakar Dakhane	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	A	P	P
26	Ms. Zeenat Sajid Sheikh	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
27	Mr. Aditya Raju Sarode	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
28	Mr. Anshul Sumil Gedekar	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
29	Mr. Anurag Milind Sewatkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
30	Mr. Arpan Navneet Pandey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
31	Mr. Aryan Kishor Motghare	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
32	Mr. Aryan Madansingh Thakur	P	P	P	P	P	P	P	A	P	P	A	P	P	A	P	P	P	P	P
34	Mr. Bhushan Devanand Nagpure	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	Mr. Deepak Prakash Tete	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
36	Mr. Deepak Sudhakar Dhale	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
37	Mr. Devanshu Kisan Junghare	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
38	Mr. Gaurav Pravin Navarkhele	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
39	Mr. Harsh Purushottam Zade	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P
40	Mr. Harsh Shankar Dhabale	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	Mr. Harsh Shriniwas Bawane	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
42	Mr. Harshal Pandharnath Borkar	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
43	Mr. Harshal Rajendra Bhade	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P
44	Mr. Himanshu Rupchand Dongre	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P
45	Mr. Kartik Vijay Gujarkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	Mr. Mayur Anil Shrikhande	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P



## Assessment Test of "Certificate Course on Building Blocks of Civil & Mechanical Engineering"

\* Indicates required question

1. Email \*

\_\_\_\_\_

2. Name of Student \*

\_\_\_\_\_

3. Contact Number \*

\_\_\_\_\_

Test

4. 1. Which type of surface is produced by turning operation in lathe machine?

\* 2 points

*Mark only one oval.*

- flat
- cylindrical
- taper
- none of the mentioned

5. 2.Lathe cannot produce internal features like holes. \*

2 points

Mark only one oval.

- True  
 False

6. 3.Which type of surface is produced in facing operation? \*

2 points

Mark only one oval.

- cylindrical  
 taper  
 flat  
 none of the mentioned

7. 4. The origin of a drawing is at \_\_\_\_? \*

2 points

Mark only one oval.

- 0,1  
 1,0  
 0,0  
 1,1

8. 5. Scaling a material make them \_\_\_\_\_ \*

2 points

Mark only one oval.

- Bigger  
 Smaller  
 Either smaller or bigger  
 None of the above  
 None of these

9. 6 What is the full form of CNC? \*

2 points

Mark only one oval.

- Computer Numerical Control
- Computer Number Control
- Computer Network Control
- Computer Numbers Count

10. 7 How CNC machine is controlled? \*

2 points

Mark only one oval.

- By operator
- By program
- Control system
- Electrical unit

11. 8 Sprue in casting refers to \*

2 points

Mark only one oval.

- Gate
- Runner
- Riser
- Vertical passage

12. 9 Which type of metal is used in casting? \*

2 points

Mark only one oval.

- Liquid
- Solid
- Gas
- Plastic



13. 10. Casting is defined as pouring of molten metal into Mould and taking it out after it become vapors. \* 2 points

13. What is the relationship between each force, if three concurrent forces acting on a body according to Lami's theorem? \* 2 points

Mark only one oval.

14.  Directly proportional to the sine of the angle between the other two forces  
 Inversely proportional to the cosine of the angle between the other two forces  
 Directly proportional to the cosine of the angle between the other two forces  
 Inversely proportional to the sine of the angle between the other two forces

14. Dry friction is also called \_\_\_\_\_ \* 2 points

Mark only one oval.

- Column Friction  
 Coulomb Friction  
15.  Dry column friction  
 Surface friction

15. U.D.L stands for? \* 2 points

Mark only one oval.

- Uniformly diluted length  
 Uniformly developed loads  
 Uniaxial distributed load  
 Uniformly distributed loads

19. 16. Tangent of angle of friction is equal to \_\_\_\_\_

2 points

Mark only one oval.

- kinetic friction
- limiting friction
- angle of repose
- coefficient of friction

20. 17. Concurrent forces are those forces whose lines of action \_\_\_\_\_

2 points

Mark only one oval.

- Meet on the same plane
- Meet at one point
- Lie on the same line
- None of these

21. 18. According to the law of moments (Varignons theorem), if a number of coplaner forces acting on a particle are in equilibrium, then \_\_\_\_\_

2 points

Mark only one oval.

- Their lines of action are at equal distances
- The algebraic sum of their moments about any point in their plane is zero
- Their algebraic sum is zero
- The algebraic sum of their moments about any point is equal to the moment of their resultant force about the same point

22.

19. The triangle law of forces states that if two forces acting simultaneously on a particle, be represented in magnitude and direction by the two sides of a triangle taken in order, then their resultant may be represented in magnitude and direction by the third side of a triangle, taken in opposite order

\* 2 points

Mark only one oval.

- True  
 False

23.

20. The three forces of 100 N, 200 N and 300 N have their lines of action parallel to each other but act in the opposite directions. These forces are known as

\* 2 points

Mark only one oval.

- coplaner non-concurrent forces  
 coplaner concurrent forces  
 like parallel forces  
 unlike parallel forces

This content is neither created nor endorsed by Google

Google Forms

  
Principal

Driyadarshini Bhagwati College of Engg.  
Umred Road, Nagpur.



Lokmanya Tilak Jankalyan Shiksha Sanstha's  
**PRIVADARSHINI BHAGWATI COLLEGE OF ENGINEERING,**  
Barpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur - 24  
(Approved by AICTE, New Delhi, Govt. of Maharashtra  
and affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)  
Email: principalphcoe@gmail.com, Website: www.phcoe.edu.in  
*NAAC Accredited*



**Department of B.Tech First Year**  
**Academic session 2022-2023 (Even Sem)**

**Certificate Course on "Building Blocks of Civil & Mechanical Engineering"**

**Grade Sheet**

Sr.No	Name of Student	Grade
1	Ms. Achal Pandhari Khandal	A
2	Ms. Anam Qadir Khan	A
3	Ms. Anishka Premdas Mungale	B
4	Ms. Arjumand mahek Shabbir Sheikh	B
5	Ms. Astha Avesh Kapoor	A
6	Ms. Bhagyashri Wasudeo Hatwar	A
7	Ms. Isha Arun Tale	A
8	Ms. Janvi Pravin Khotele	A
9	Ms. Khushi Dilip Khole	A
10	Ms. Khushi Kishor Budhkondwar	B
11	Ms. Khushi Laxman Das	B
12	Ms. Komal Sunil Taksande	A
13	Ms. Kumkum Bhaskar Jarwekar	A
14	Ms. Namrata Shatrughna Shiwarkar	B
15	Ms. Payal Puran Mahajan	A
16	Ms. Priti Gyanchandra Pandey	A
17	Ms. Priya Ganpat Nahale	A
18	Ms. Samiksha Amol Ballal	B
19	Ms. Shruti digambar Gajbhiye	B
20	Ms. Shruti Someshwar Sorte	A
21	Ms. Shubhangi Pramod Dhenge	A
22	Ms. Triveni Rajabhau Chavhan	A
23	Ms. Trupti Krushnakant Kukade	A
24	Ms. Umama Latif Sheikh	A
25	Ms. Vaibhavi Prabhakar Dakhane	A
26	Ms. Zeenat Sajid Sheikh	A
27	Mr. Aditya Raju Sarode	B
28	Mr. Anshul Sunil Gedekar	B
29	Mr. Anurag Milind Sewatkar	A
30	Mr. Arpan Navneet Pandey	B

31	Mr. Aryan Kishor Motghare	A
32	Mr. Aryan Madansingh Thakur	A
34	Mr. Bhushan Devanand Nagpure	A
35	Mr. Deepak Prakash Tete	A
36	Mr. Deepak Sudhakar Dhale	A
37	Mr. Devanshu Kisan Junghare	A
38	Mr. Gaurav Pravin Navarkhele	A
39	Mr. Harsh Purushottam Zade	A
40	Mr. Harsh Shankar Dhabale	B
41	Mr. Harsh Shrinivas Bawane	A
42	Mr. Harshal Pandharinath Borkar	A
43	Mr. Harshal Rajendra Bhade	A
44	Mr. Himanshu Rupchand Dongre	A
45	Mr. Kartik Vijay Gujarkar	B
46	Mr. Mayur Anil Shrikhande	A
47	Mr. Nikhil Nandkishor Bhiwgade	A
48	Mr. Pranav Vinod Kharkar	A
49	Mr. Pranay Naresh Gaikwad	A
50	Mr. Rugved Mahendra Raspayle	B
51	Mr. Rupak Sanjay Tayde	A
52	Mr. Rushi Hemraj Khedekar	B
53	Mr. Sujal Suresh Wankhede	A
54	Mr. Sumant Kishor Gawande	A



Ms.S.P.Gurway

Prog. Coordinator



Ms.A.M.Sorte

Prog. Coordinator



Dr.(Mrs.) A.R.Chaudhari

Coordinator B.Tech First Year



Principal  
Priyadarshini Bhagwati College of Engg.  
Umred Road, Naupur.



Priyadarshini Bhagwati College of Engineering, Nagpur  
Department of B.Tech First Year





Certificate Course on Building Blocks of Civil & Mechanical  
Engineering

*Certificate*


The Department of B.Tech First Year, Priyadarshini Bhagwati College of  
Engineering, Nagpur award certificate to Ms. Isha A. Tale for  
successful completion of Certificate Course on "Building Blocks of Civil &  
Mechanical Engineering" held during 03<sup>th</sup> April to 24<sup>th</sup> April 2023.



  
Ms. A.M. Sorte  
Prog. Coordinator

  
Ms. S.P. Gudway  
Prog. Coordinator

  
Dr. (Mrs.) A.R. Chaudhari  
Co-ordinator B-Tech First Year

  
Dr. N.K. Choudhari  
Principal



Priyadarshini Bhagwati College of Engineering, Nagpur

Department of B.Tech First Year




Certificate Course on Building Blocks of Civil & Mechanical  
Engineering

*Certificate*


The Department of B.Tech First Year, Priyadarshini Bhagwati College of  
Engineering, Nagpur award certificate to Ms. Aryan M. Thakur for  
successful completion of Certificate Course on "Building Blocks of Civil &  
Mechanical Engineering" held during 03<sup>th</sup> April to 24<sup>th</sup> April 2023.



  
Ms. A.M. Sorte  
Prog. Coordinator

  
Ms. S.P. Gurway  
Prog. Coordinator

  
Dr. (Mrs.) A.R. Chaudhari  
Co-ordinator B-Tech First Year

  
Dr. N.K. Choudhari  
Principal

# Feedback Form

Certificate Course on Building Blocks of Civil & Mechanical Engineering

\* Indicates required question

---

1. Email \*

2. Name of Student \*

3. Contact Number \*

4. How was the content of the course? \*

*Mark only one oval.*

Excellent

Good

Fair

Poor

5. How was the knowledge of the teachers? \*

*Mark only one oval.*

Excellent

Good

Fair

Poor

6. Practical Based Topics Have Been Covered? \*

*Mark only one oval.*

Excellent

Good

Fair

Poor



7. Whether the course content will be useful for you in future? \*

*Mark only one oval.*

- Yes
- No
- Maybe

8. How would you rate overall session? \*

*Mark only one oval.*

- Excellent
- Good
- Fair
- Poor

9. Any Suggestion for improvement? \*

---

---

---

---

---

---

This content is neither created nor endorsed by Google.

Google Forms



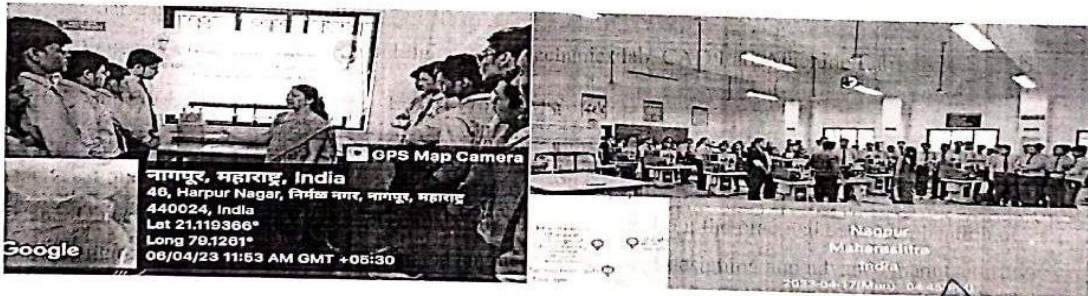
Lokmanya Tilak Jankalyan Shikshan Sanstha's  
**PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING**  
 Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24  
 (Approved by AICTE, New Delhi, Govt. of Maharashtra  
 and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)  
 Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in  
**NAAC Accredited**



**Department of B.Tech First Year**  
**Academic session 2022-2023 (Even Sem)**

**Report on Certificate Course on "Building Blocks of Civil & Mechanical Engineering"**

1. Title of Course : Certificate course on  
"Building blocks of Civil & Mechanical Engineering"
2. Course Code : FY222301
3. Course Date : 03/04/2023 to 24/04/2023
4. Course conduction duration : 30Hrs
5. Venue : Engineering Mechanics lab, CAD Lab, Machine Lab
6. Name of Event Coordinator : 1. Asst.Prof.A.M.Sorte  
2. Asst.Prof. S.P.Gurway
7. Number of students : 54
8. Objective : To make the student aware about the practical based application of engineering mechanics and mechanical engineering, drafting, designing and advance manufacturing like CNC.
9. Outcome: After completion of this Course Student will be able to describe the concept of Engineering mechanics & its application, basics of drafting software like, CNC machines and CNC lathe machine.



Ms.S.P.Gurway

Prog. Coordinator

Ms.A.M.Sorte

Prog. Coordinator

Dr.(Mrs.) A.R.Chaudhari

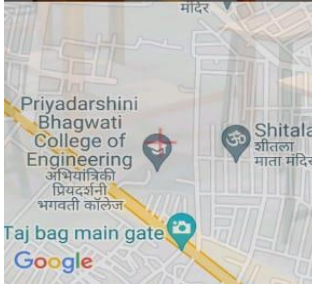
Coordinator B.Tech First Year

Dr.N.K.Choudhari

Principal

**Principal**  
 Priyadarshini Bhagwati College of Engg.  
 Umred

# CERTIFICATE COURSE PHOTOS



T3, 3rd floor, Priyadarshani Bhagwati college of engineering, Nirmal Nagar, Nagpur, Maharashtra 440009, India

Nagpur  
Maharashtra  
India

2023-04-17(Mon) 04:45(PM)

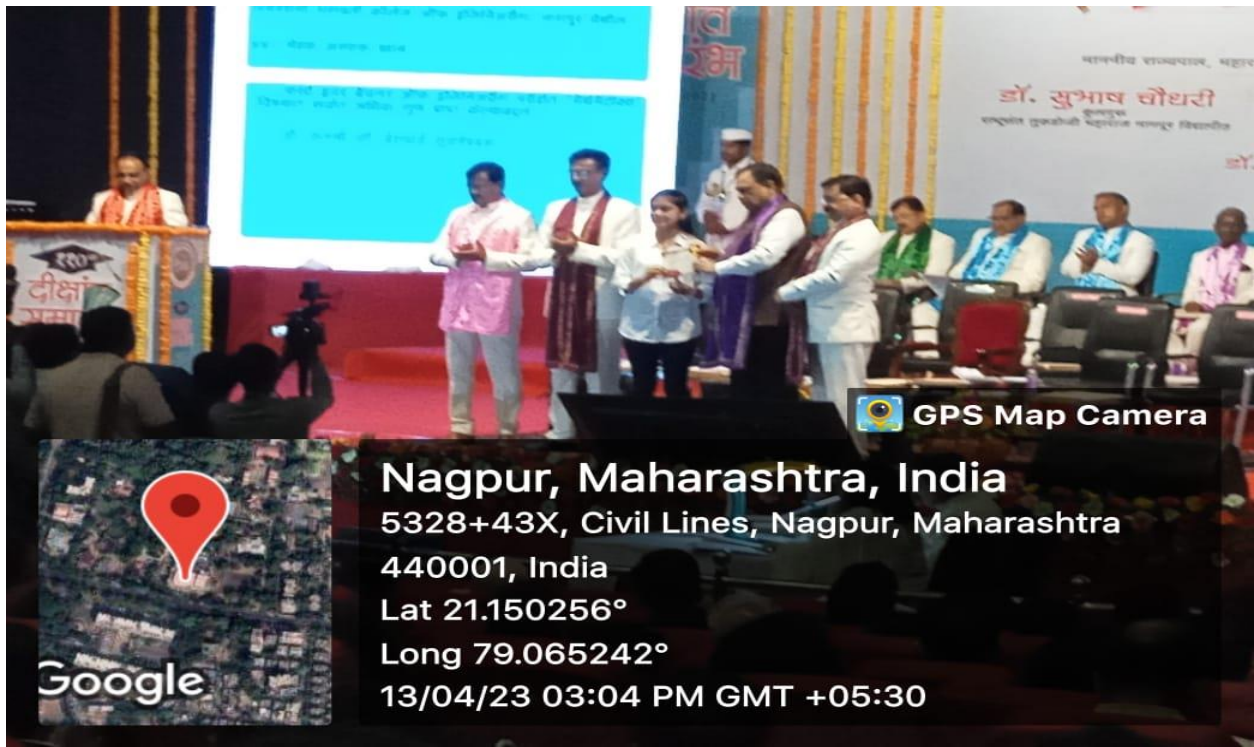


नागपूर, महाराष्ट्र, India  
46, Harpur Nagar, निर्मळ नगर, नागपूर, महाराष्ट्र  
440024, India  
Lat 21.119366°  
Long 79.1261°  
06/04/23 11:53 AM GMT +05:30

Students  
Achievement in  
Academics

## Students Achievement in Academics

### Students of B-Tech First Year Received Gold Metal by Scoring 100 on 100 in Mathematics-I




Activities  
Conducted  
Beyond Syllabus  
for Curriculum  
Enrichment

## Poster Competition on National Science Day




T3, 3rd floor, Priyadarshani Bhagwati college of engineering, Maharashtra 440009, India



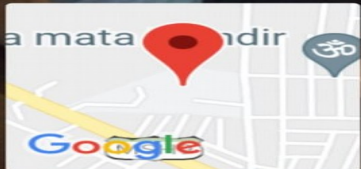
Maharashtra  
India

30°C  
86°F

2020-02-28(Fri) 03:11(PM)



## Group Discussion Session



Google

**Nagpur, Maharashtra, India**  
T3, 3rd floor, Priyadarshani Bhagwati college of engineering, Nirmal Nagar, Nagpur, Maharashtra 440009, India  
Lat 21.120343°  
Long 79.125649°  
14/02/22 03:55 PM



Lokmanya Tilak Jankalyan Shikshan Sanstha's

**Priyadarshini Bhagwati  
College of Engineering**



INTERNAL QUALITY ASSURANCE CELL(IQAC)

# Certificate of Appreciation

This certificate is awarded to Kaarthick Gaddam  
for conducting and organizing one days workshop on "Android  
Application Development" on 20th February 2020.

Mr.M.S.Chaudhari  
HOD IT Department & Member IQAC

Dr.(Mrs.)A.R.Chaudhari  
Dean Academics & IQAC Coordinator

Dr.N.K.Choudhari  
Principal & IQAC Chairperson





Lokmanya Tilak Jankalyan Shikshan Sanstha's

**Priyadarshini Bhagwati  
College of Engineering**



INTERNAL QUALITY ASSURANCE CELL (IQAC)

# Certificate of Appreciation

This certificate is awarded to Karan Potdukhe  
for conducting and organizing one days workshop on "Android  
Application Development" on 20th February 2020.

Mr. M.S. Chaudhari  
HOD IT Department & Member IQAC

Dr. (Mrs.) A.R. Chaudhari  
Dean Academics & IQAC Coordinator

Dr. N.K. Choudhary  
Principal & IQAC Coordinator

Lokmanya Tilak Jankalyan Shikshan Sanstha's



# Priyadarshini Bhagwati College of Engineering



Internal Quality Assurance Cell(IQAC)

## CERTIFICATE OF PARTICIPATION

This certificate is awarded to Pranjali Bawankar  
for participating in one days workshop on "Android Application  
Development" on 20th February 2020.

Mr.M.S.Chaudhari  
HOD IT Department & Member IQAC

Dr.(Mrs.)A.R.Chaudhari  
Dean Academics & IQAC Coordinator

Dr.N.K.Choudhari  
Principal & IQAC Chairperson

Lokmanya Tilak Jankalyan Shikshan Sanstha's

# Priyadarshini Bhagwati College of Engineering



Internal Quality Assurance Cell(IQAC)

## CERTIFICATE OF PARTICIPATION

This certificate is awarded to \_\_\_\_\_Vaishnavi . S. Shahu\_\_\_\_\_  
for participating in one days workshop on "**Android Application  
Development**" on 20th February 2020.

Mr.M.S.Chaudhari  
HOD IT Department & Member IQAC

Dr.(Mrs.)A.R.Chaudhari  
Dean Academics & IQAC Coordinator

Dr.N.K.Choudhari  
Principal & IQAC Chairperson