



College Code - 4192

Maitrey Educational Society

**Nagarjuna**

**Institute of Engineering, Technology & Management**  
(AICTE, DTE Approved & Affiliated to R.T.M. Nagpur University Nagpur)

Village Satnavri, Amravati Road, Nagpur 440023

Email: maitrey.ngp@gmail.com; Website: www.nietm.in; Phone No. 07118 322211, 12

## **National Assessment and Accreditation Council**

### **AQAR 2020-21**

#### **NAAC Criteria-1: Curricular Aspects**

#### **1.1 Curricular Planning and Implementation**

<b>1.1.2</b>	<b>The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)</b>
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## Criteria-1: Curricular Aspects

### Metric No. 1.1.1

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1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

(Established by Government of Central Provinces Education Department by Notification No. 213, dated 17<sup>th</sup> of August, 1921 & presently a State University governed by Maharashtra Public Universities Act, 2014/Maharashtra Act No. VI of 2013)

[Academic Section]

Shri Chhatrapati Shivaji Maharaj Administrative Provisions, Madhansingh Chowk, Civil Lines, Nagpur-44

Tel No. 0712-2552003 Fax No. 0712-2552841, 2551317

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

No. Acad./Acad.Cale./2020/373


### 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	01.08.2020 to 24.12.2020
First Term (Odd semesters)	10.11.2020 to 16.11.2020
Diwali Holidays /	25.12.2020 to 15.01.2021
Winter Vacation	16.01.2021 to 25.05.2021
Second Term (Even semesters)	26.05.2021 to 25.06.2021
Summer Vacation	
2. Admissions*	15.09.2020
a) Last date of Admission (First term odd sem)	30.09.2020
b) Last date for Admission with prior permission of the Vice-Chancellor	
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	20.11.2020
a) Failure Students in even semesters	17.12.2020
b) Regular students in odd semesters	
2. Last date for receipt of exams. forms	30.10.2020
a) Regular students	(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	22.03.2021
a) Failure of odd semester	22.05.2021
b) Regular Even semester	
2. Last date for receipt of examinations forms	15.03.2021
a) Regular Students	15.10.2020
b) Old Ex-Students & External Students	
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.
1. Terms & Vacation	01.08.2020 to 24.12.2020
First Term (Odd semesters)	10.11.2020 to 16.11.2020
Diwali Holidays /	25.12.2020 to 15.01.2021
Winter Vacation	16.01.2021 to 25.05.2021
Second Term (Even semesters)	26.05.2021 to 25.06.2021
Summer Vacation	
2. Admissions*	15.09.2020
a) Last date of Admission	30.09.2020
b) Last date for Admission with prior permission of the Vice-Chancellor	



  
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3. Last date of submission of Enrolment forms to the university	: 2 :	Within fifteen days from the last notified date of Admissions.
<b>4. Examination</b>		
Winter Examinations.		
1. Commencement of Exam.		20.11.2020
2. Last date for receipt of exams, forms		
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
Summer Exams.		
1. Commencement of Exams.		22.03.2021
2. Last date for receipt of exams, forms		
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
5. Declaration of Results		As per governing provisions of the Act.

C) Convocation Winter 2019 & Summer 2020 : December 2020

**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 in 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 CAS 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 2006 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. Verma 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.)



*(Signature)*

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## Institute of Engineering, Technology & Management

College Address : Village Satnavari, Amravati Road, NAGPUR - 440 023

Mobile No. : 9579850361, 362, 363

E-mail : maitrey.ngp@gmail.com Website : www.nietm.in

### ACADEMIC CALENDER FOR ODD SEMESTER (UG III,V& VII SEM)

#### JUNE 2020

Commencement of classes	15/06/2020
Commencement & Completion of First Unit	15/06/2020 to 24/06/2020
Conduct Unit Test on First Unit	17/06/2020 to 22/06/2020
NPTEL Videos presentation	18/06/2020 to 21/06/2020
Display Result for Unit test-I	6/24/2020
Counselling of students by Hod on CGPA improvement	6/25/2020
Conduct re-test for slow learners	25/06/2020 to 27/06/2020
Moocs & Swayam	27/06/2020 to 29/06/2020

#### JULY 2020

Commencement & Completion of Second Unit	1/07/2020 to 11/07/2020
Conduct Unit Test on Second Unit	12/07/2020 to 17/07/2020
Display of Assignment -I	14/07/2020
Display Result for Unit test-II	18-Jul-20
Extra classes for slow learners	19/07/2020 to 23/07/2020
Expert Lecture by Industry Resource Persons	22/07/2020 to 25/07/2020
NPTEL Videos presentation	26/07/2021 to 31/07/2020

#### AUGUST 2020

Commencement & Completion of Third Unit	1/08/2020 to 10/08/2020
NPTEL Videos presentation	2/08/2020 to 7/08/2020
Expert Lecture by Industry Resource Persons	3/08/2020 to 9/08/2020
Conduct Unit Test on Third Unit	10/08/2020 to 16/08/2020
Display of Assignment -II	8/19/2020
Mid Sessional Exam	23/08/2020 to 28/08/2020
Display Result for Midsessional Exam	29-Aug-20
Extra classes for slow learners	29/08/2020 to 30/08/2020

#### SEPTEMBER 2020

Expert Lecture by Industry Resource Persons/ Emeritus Person	3/09/2020 to 7/09/2020
Parent teacher Meet	09/09/2020
PUT Examination	11/09/2020 to 17/09/2020
Display Result for PUT	19-Sep-20
Extra classes for slow learners	20/09/2020 to 25/09/2020
Project Progress seminar	21/09/2021 to 22/09/2020
Industry visit	26/09/2020 to 30/09/2020

#### OCTOBER 2020

Conduct skill oriented workshop for students	1/10/2020 to 9/10/2020
Internal viva-voice & Submission	10/10/2020 to 16/10/2020
Feedback of Students/Parents/Alumni/Employer	17/10/2020
National Level Project & poster Competition under the banner of "Kritartha"-2019	14/10/2020 to 19/10/2020

Winter Internship Programme

After University Examination and before Commencement of next session



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### ACADEMIC CALENDER 2020-21 FOREVEN SEMESTER (UG IV,VI& VIII SEM)

JANUARY 2021	
Commencement of classes	10/1/2021
Commencement & Completion of First Unit	12/1/2021 to 22/1/2021
Republic Day celebration	26-Jan-21
FEBRUARY 2021	
Conduct Unit Test on First Unit	2/2/2021 to 6/2/2021
Display Result for Unit test-I	2/12/2021
Extra classes for slow learners	9/2/2021 to 13/2/2021
NPTEL Videos presentation	14/2/2021 to 19/2/2021
Moocs&Swayam	20/2/2021 to 26/2/2021
Expert Lecture By Prof. S.V.Sonekar	28/2/2021
MARCH 2021	
Commencement & Completion of Second Unit	1/03/2021 to 10/03/2021
Conduct Unit Test on Second Unit II	11/03/2021 to 17/03/2021
Display of Assignment -I	13-Mar-21
Display Result for Unit test-II	18-Mar-21
Extra classes for slow learners	20/03/2021 to 24/03/2021
Expert Lecture by Industry Resource Persons/guest Lecture	25/03/2021 to 29/03/2021
Industrial Visit	30-Mar-21
NPTEL Videos presentation	31/03/2021
APRIL 2021	
Commencement & Completion of Third Unit	1/04/2021 to 10/04/2021
NPTEL Videos presentation	11/04/2021 to 15/04/2021
Expert Lecture by Industry Resource Persons	12/04/2021 to 17/04/2021
Conduct Unit Test on Third Unit	18/04/2021 to 25/04/2021
Display of Assignment -II	20-Apr-21
Extra classes for slow learners	26/04/2021 to 27/04/2021
Expert Lecture by Industry Resource Persons	28/04/2021 to 29/04/2021
MAY 2021	
Parent teacher Meet	2/05/2021 to 9/05/2021
Expert Lecture by Industry Resource Person/ Emeritus Professor	10/05/2021
Mid Sessional Exam	11/05/2021 to 16/05/2021
Display Result for Mid Sessional Examination	17-May-21
Extra classes for slow learners	18/05/2021 to 23/05/2021
Final year Project defining seminar	19/05/2021 to 21/05/2021
Industry visit	24/05/2021 to 31/05/2021
JUNE 2021	
Conduct skill oriented workshop for students	1/06/2021 to 13/06/2021
PUT Examination	15/06/2021 to 20/06/2021
Internal viva-voice & Submission	21/06/2021 to 25/06/2021
Summer Internship Programme	After University Examination and before Commencement of next session

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### Evaluation Pattern of Internal Assessment

A total of 3 sessional examinations are conducted during the entire academic year. These three internal assessment exams unit wise tests, mid sessional and pre university examination are conducted on a regular basis by Nagarjuna Institute of engineering, technology & management also according to the university norms. For continuous assessment of student's exam each subject is evaluated after the unit tests and sessional examination. All exams are considered for final calculation of internal assessment marks. The best score of three exams is taken for calculation.

The distribution of marks in each exam [for theory and practical] is given below

#### Theory Internal mark distribution for B.E:

Sr no	Name of the student	Unit Test max 5	Mid sessional exam max 5	Pre University exam max 10 max 10	Aggregate Total out of max 20

#### Theory Internal mark distribution for B.tech

Sr no	Name of the student	Unit Test max 10	Mid sessional exam max 10	Pre University exam max 10 max 10	Aggregate Total out of max 30

#### Practical mark distribution for B.E and B.tech:

Exam	Attendance	Manual submission	Performance	Viva voice	Total marks
Practical	5	5	5	10	25

The university examinations are conducted at the end of the academic year.



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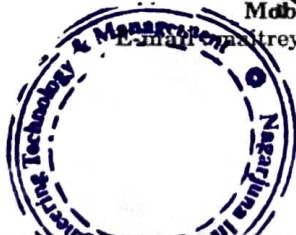
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## Department of Civil Engineering

### Time Table for Mid Sessional Exam Summer 2021

Instruction while writing examination

1. Theory Paper will be online via Google form of 40 questions of 2marks each MCQ
2. Total Marks 80.
3. Theory paper will be of 1 hour.

SrNo	Name of Faculty	Name of Subject	Semester	Date of Exam	Time	Sign
1	Parimal P Dhotre	Structural analysis - I	Fourth	11-05-2021	1 <sup>st</sup> Session 1-2PM	
2	Smita R Gajbhiye	Geotechnical engineering-I		12-05-2021		
3	Rahul Patle	Transportation engineering - I		13-05-2021		
4	Neetu B Ramteke	Surveying - I		14-05-2021		
5	N Somkuwar	Building construction & material		15-05-2021		
1	Parimal P Dhotre	Steel Structures	Sixth	11-05-2021	2 <sup>nd</sup> Session 3-4PM	
2	Smita R Gajbhiye	Surveying-II		12-05-2021		
3	Rahul Patle	Fluid Mechanics -II		13-05-2021		
4	Neetu B Ramteke	Environmental Engineering-II		14-05-2021		
5	N Somkuwar	Steel Structures		15-05-2021		
1	Parimal P Dhotre	Irrigation Engineering	Eighth	11-05-2021	3 <sup>rd</sup> Session 4-5PM	
2	Smita R Gajbhiye	Elective - II		12-05-2021		
3	Rahul Patle	Elective - III		13-05-2021		
4	Neetu B Ramteke	Construction Economics and Finance		14-05-2021		

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Dept. of Civil Engineering



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## Department of Electrical Engineering Time Table for Mid Sessional Exam Summer 2021

Instruction while writing examination

4. Theory Paper will be online via Google form of 40 questions of 2marks each MCQ
5. Total Marks 80.
6. Theory paper will be of 1 hour.

SrNo	Name of Faculty	Name of Subject	Semester	Date of Exam	Time	Sign
1	Prof.V.Raut	Applied Mathematics-IV	Fourth	11-05-2021	1 <sup>st</sup> Session 1-2PM	V.Raut
2	Prof.M.Thool	Digital Electronics		12-05-2021		M.Thool
3	Prof.S.Sherki	EMF		13-05-2021		Sherki
4	Prof.P.Raut	Computer Programming		14-05-2021		P.Raut
	Prof.P.P.Ingle	Electrical Machines-I		15-05-2021		P.Ingle
5	Prof.A.S.Bisen	Environmental Study		16-05-2021		A.Bisen
1	Prof.P.P.Ingle	Control System-I	Sixth	11-05-2021	2 <sup>nd</sup> Session 3-4PM	P.Ingle
2	Prof.S.Bankar	Power Station Practice		12-05-2021		S.Bankar
3	Prof.R.Bansod	Power Electronics		13-05-2021		R.Bansod
4	Prof.A.B.Walde	Electrical Drives & Control		14-05-2021		A.B.Walde
5	Prof.Radhakrishnan	Functional English		15-05-2021		R.Krishnan
6	Prof.S.Bankar	Engineering Economics & Industrial Management		16-05-2021		S.Bankar
1	Prof.S.Bankar	Elective II- EDS	Eighth	11-05-2021	3 <sup>rd</sup> Session 4-5PM	S.Bankar
2	Prof.A.B.Walde	Elective III- EHVAC		12-05-2021		A.B.Walde
3	Prof.R.Bansod	Computer Applications in Power System		13-05-2021		R.Bansod
4	Prof.P.P.Ingle	Switch gear & Protection		14-05-2021		P.Ingle

*S.A. Walde*  
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Dept. of Electrical Engineering



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## Department of Computer Science Engineering Time Table for Mid Sessional Exam Summer 2021

Instruction while writing examination

1. Theory Paper will be online via Google form of 40 questions of 2marks each MCQ
2. Total Marks 80.
3. Theory paper will be of 1 hour.

SrNo	Name of Faculty	Name of Subject	Semester	Date of Exam	Time	Sign
1	Prof.V.Raut	Discrete Mathematics and Graph Theory	Fourth	11-05-2021	1 <sup>st</sup> Session 1-2PM	<i>V.Raut</i>
2	P Raut	Data Structures & Program Design		12-05-2021		<i>P.Raut</i>
3	P Gumgaonakar	Theoretical Foundations of Computer Sciences		13-05-2021		<i>P.Gumgaonakar</i>
4	Vaishali Gedam	System Programming		14-05-2021		<i>V.Gedam</i>
	Bharti Nikose	Operating Systems		15-05-2021		<i>B.Nikose</i>
5	Prof.V.Raut	Discrete Mathematics and Graph Theory		16-05-2021		<i>V.Raut</i>
1	P Gumgaonakar	Artificial Intelligence	Sixth	11-05-2021	2 <sup>nd</sup> Session 3-4PM	<i>P.Gumgaonakar</i>
2	Vaishali Gedam	Design Patterns		12-05-2021		<i>V.Gedam</i>
3	Bharti Nikose	Computer Networks		13-05-2021		<i>B.Nikose</i>
4	Akshay Bhojar	Software Engineering & Project Management		14-05-2021		<i>A.Bhojar</i>
5	S Radhakrishnan	Functional English		15-05-2021		<i>S.Radhakrishnan</i>
6	P Gumgaonakar	Artificial Intelligence		16-05-2021		<i>P.Gumgaonakar</i>
1	P Gumgaonakar	Distributed Operating system	Eighth	11-05-2021	3 <sup>rd</sup> Session 4-5PM	<i>P.Gumgaonakar</i>
2	Vaishali Gedam	Elective-III- Clustering & Cloud Computing.		12-05-2021		<i>V.Gedam</i>
3	Vaishali Gadichor	Information & Cyber Security		13-05-2021		<i>V.Gadichor</i>
4	Vaishali Gadichor	Elective IV-Advance Wireless Sensor Network		14-05-2021		<i>V.Gadichor</i>

*P.Raut*  
HOD

Dept. of Computer Science Engineering



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**Department of Mechanical Engineering**  
**Time Table for Mid Sessional Exam Summer 2021**

Instruction while writing examination

1. Theory Paper will be online via Google form of 40 questions of 2marks each MCQ
2. Total Marks 80.
3. Theory paper will be of 1 hour.

SNO	Name of Faculty	Name of Subject	Semester	Date of Exam	Time	Sign
1	N Gedam	Engineering Thermodynamics	Fourth	11-05-2021	1 <sup>st</sup> Session 1-2 pm	<i>N.G.</i>
2	R Upadhye	Machining Processes		12-05-2021		<i>R.U.</i>
3	S Pathan	Mechanics of Materials		13-05-2021		<i>S.P.</i>
4	D Darunde	Hydraulics Machines		14-05-2021		<i>D.D.</i>
1	N Gedam	Control Sys. Engineering	Sixth	11-05-2021	2 <sup>nd</sup> Session 3-4 pm	<i>N.G.</i>
2	R Upadhye	Mechatronics		12-05-2021		<i>R.U.</i>
3	S Pathan	Energy Conversion-I		13-05-2021		<i>S.P.</i>
4	R Upadhye	Operations Research		14-05-2021		<i>R.U.</i>
5	D Darunde	Dynamics of machines		15-05-2021		<i>D.D.</i>
6	S Radhakrishnan	Functional English		16-05-2021		<i>S.R.</i>
1	N Gedam	Elective II- CIMS	Eight	11-05-2021	3 <sup>rd</sup> Session 4-5 pm	<i>N.G.</i>
2	R Upadhye	Elective III- AMT		12-05-2021		<i>R.U.</i>
3	S Pathan	Automation in Production		13-05-2021		<i>S.P.</i>
4	D Darunde	Energy Conversion III		14-05-2021		<i>D.D.</i>

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**Nagarjuna Institute Of Engineering Technology And Management, Amravati Road, Nagpur.**

Department of Mechanical Engineering Session -2020-21

**Overall Syllabus Coverage Report till date April 21 2021**

**Sem:- III**

Sr. No.	Name of the Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Rasik Upadhye	Manufacturing Processes	31	4.3	Notes provided for 4 Units	Notes, MCQ, PPT, Animation to understand process in simple way
02	Prof. Vidhya Raut	Applied Mathematics-III	44	4	Notes provided for 4 units	Notes provided in PDF
03	Prof. S Pathan	Engineering metallurgy	30	4	Notes provided for 4 units	Notes provided in PDF
04	Prof. N Gedam	Fluid Mechanics	30	4	Notes provided for 4 units	Notes provided in PDF
05	Prof.D Darunde	Machine Drawing	30	4	Drawing sheets	Drawing on Auto
06	Prof. Sumit Kumar	Kinematics of Machines	31	4	Notes provided for 4 units	Notes provided in pdf

**Sem:- IV**

Sr. No.	Name of the Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Rasik Upadhye	Machining Processes	30	4	Notes being provided for 4 Units	Notes in word (Read only) and PDF are provided.
02	Prof. S Pathan	Mechanics of Materials	28	4	Notes being provided for 4 Units	Notes being provided for 4 Units
03	Prof. Vidhya Raut	Applied Mathematics-IV	25	4.5	Notes being provided for 4 Units	Notes provided in PDF
04	Prof.D Darunde	Engineering Thermodynamics	25	4	Notes being provided for 4 Units	Notes in Word and PDF
05	Prof. Sumit Kumar	Hydraulic Machines	25	4	Notes being provided for 4 Units	Notes in Word and PDF



  
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**Sem :- VI**

Sr. No.	Name of the Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Rasik Upadhye	Operation Research	27	4	Notes for 4 <sup>1</sup> unit in word(read only) & PDF	Notes in word form (Read only). PPT provided in PDF
02	Prof. Shadab Pathan	Dynamics of Machines	26	4	Lecture wise notes being provided	Notes in Word and PDF
03	Prof. D Darunde	Energy Conversion1	27	4	Lecture wise notes being provided	Notes in Word and PDF
04	Prof. Sumit Kumar	CSE	4	4	Notes provided for 4 units	Notes provided in pdf

**Sem :- VIII**

Sr. No.	Name of the Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Rasik Upadhye	Industrial Management	18	04	notes, PPT are provided	PPT s, PDF, MCQ are provided meticulously
02	Prof. Shadab Pathan	Refrigeration & AC	-----	-----	-----	-----
03	Prof. D Darunde	Energy Conversion III	16	2	Unit No. 4	Notes provided in PDF
4	Prof. Sumit Kumar	Automation in Production	4	1.5	Notes for all 4 Units	Notes provided in pdf

**Sem 1st**

Sr. No.	Subject	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Shadab Pathan	Engineering Graphics	17	3	Notes provided	Yes

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Nagarjuna Institute Of Engineering Technology And Management, Amravati Road,  
Nagpur.  
Department of Computer Science and Engineering  
Session -2020-21

Overall Syllabus Coverage Report till date

Dt.

21/04/2021

Sem:- III

Sr. No.	Name of Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Pawan Raut	ACPLD	10	01		
02	Prof. Vidhya Raut	AM	36	3	Unit No. I, II & III	Notes provided in PDF
03	Prof. Manish Thool	DCFM	30	4	Unit No. I, II, III & IV	Notes provided in PDF

Sem:- IV

Sr. No.	Name of Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. Pawan Raut	DSPD	08	0.5		
02	Prof. P. Gumgaonkar	TFCS	14	1.75	Unit No. I and II	Notes provided in PDF
03	Prof. Vidhya Raut	DMGT	15	01	Unit No. I	Notes provided in PDF
04	Prof. Vaishali Gedam	SP	10	1.5	Unit No. I	Notes provided in PDF
05	Prof. Bharti Nikose	OS	17	01	No	

Sem :- VI

Sr. No.	Name of Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. P. Gumgaonkar	AI	21	03	Unit No. I, II & III	Notes provided in PDF
02	Prof. Vaishali Gedam	DP	09	1.5	Unit No. I	Notes provided in PDF
03	Prof. Bharti Nikose	CN	08	0.9	No	After completion of Unit No. I notes will provide

04	Prof. Akshay Bhojar	SEPM	10	02	Unit No. I & II	Notes provided in PDF
05	Prof. Radhakrishnan	FE				

Sem :- VIII

Sr. No.	Name of Faculty	Subject	No. Of Lecture Conducted	No. Of Units Covered	Notes Provided (Unit wise)	Remark
01	Prof. P. Gumgaonkar	DOS	26	03	Unit No. I, II, & III	Notes Provided in PDF
02	Prof. Vaishali Gedam	CCC	11	02	Unit No. I & II	Notes provided in PDF
03	Prof. Vaishali Ghadichor	CS	14	03	Unit No. I, II, & III	Notes provided in PDF
04	Prof. Vaishali Ghadichor	AW	13	2.5	Unit No. I & II	Notes provided in PDF



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# BE 3rd Semester Manufacturing Processes

Department of Mechanical Engineering, Nagarjuna Institute of Engineering, Technology & Management

\* Required

1. Name of the Student \*

---

2. Mobile Number \*

---

## MCQ

3. 1)Castings are usually \*

2 points

Mark only one oval.

- costlier than forgings
- cheaper than forgings
- at the same rate as forging for similar metal none
- of the above



  
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4. 2) Which type of arc building is suitable for joining non ferrous metals \*

2 points

Mark only one oval.

- D.C. Arc building  
 A.C. Arc building  
 both of these none  
 of these

5. 3) Loan sand comprises of \*

2 points

Mark only one oval.

- 50% sand and 10% moister  
 40% clay and 10% moister  
 50% clay and 18% moister  
 80% clay and 20% moister



  
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6. 4) Facings and in foundry work is made of \*

Mark only one oval.

- alumina, silica and clay
- silica and clay
- clay and alumina
- silica and alumina

7. 5) Sands are graded according to their \*

Mark only one oval.

- source of origin
- strength
- permeability
- clay content and grain size



  
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8. 6) Which type of patterns and used mounting several patterns at a time \*

2 points

Mark only one oval.

- combine pattern loose
- piece pattern sweep
- pattern match plate
- pattern

9. 7) Which material had more shrinkage allowance \*

2 points

Mark only one oval.

- cast iron
- brass
- lead
- aluminium alloy

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10. 8) The mold is housed in a \*

2 points

Mark only one oval.

- flask
- cope
- drag
- check

11. 9) Hot tier in casting is \*

2 points

Mark only one oval.

- casting defect process
- of fabrication
- process of heat treatment
- strengthening of alloys



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12. 10) The main advantage of shell moulding is \*

2 points

Mark only one oval.

- a metallic patterns is used
- moulds are stronger
- thin sections can be easily obtained
- production rate is possible

13. 11) The taper provided to the pattern for material removal is known as \*

2 points

Mark only one oval.

- shaking allowance
- distortion allowance
- machining allowance
- draft allowance



  
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14. 12) Cast are in pipes and cylindrical barrels are produced in \*

1 point

Mark only one oval.

- true centrifugal casting semi  
 centrifugal castingcentrifuged  
 casting  
 die casting

15. 13) Fly wheels, track wheels and gears can be produced by \*

2 points

Mark only one oval.

- true centrifugal casting  
 semi centrifugal casting  
 centrifuged casting none  
 of the above



  
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16. 14) Which of the welding processes use consumable electrode \*

2 points

Mark only one oval.

- submerged arc weldingMIG
- welding
- TIG welding
- CIG weelding

17. 15) the heat generated in resistance welding is given by \*

2 points

Mark only one oval.

- $H=I^2RT$
- $H=I^2 R/T$
- $H=I^2/RT$
- $H=RT/I^2$



18. 16) Ultra sonic welding is used to join \*

2 points

Mark only one oval.

- thin metallic sheets
- metallic wires
- thermoplastic
- all of the above

Fill in the blanks

19. 17) In an arc building process welding speed is doubled, assume all other parameters to be constant the cross sectional area of the welled bead will be \_\_\_\_\_

2 points

Mark only one oval.

- increase by 25%
- increased by 50%
- reduced by 25%
- reduced by 50%



A handwritten signature in green ink, appearing to be "R.D."

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20. 18) The major difficulty during welding of aluminium is due to its \_\_\_\_ \*

2 points

Mark only one oval.

- high tendency of oxidation
- high thermal conductivity low
- melting point
- low density

21. 19) Green sand mould indicates that \_\_\_\_ \*

1 point

Mark only one oval.

- polymorphic mould has been cured
- mould has been totally dried mould is
- green in color
- mould contains moister



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22. 20) \_\_\_\_\_ is one of a solid state joining process \*

2 points

Mark only one oval.

- Gas TIG
- resistance spot welding
- friction welding
- SAW

23. 21) In drawing operation the metal flows due to \_\_\_\_\_ \*

2 points

Mark only one oval.

- ductility
- plasticity shearing
- yielding
- 

One word answer

24. 22) The force requirement in a blanking operation of a low carbon steel sheet is 5kN. The thickness of the sheet is  $t$  and diameter of the blank part is  $d$ , for the same work material if the diameter of the blank part is increased to  $1.5d$  and thickness is reduced to  $0.4t$ , the new blanking force in kiloNewtons is \_\_\_\_\_

2 points



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25. 23) Two stream of liquid metals which are not hot enough to fuse properly result into a casting defect is known as \* 2 points
26. 24) The extra metal which settles down in the gutter is known as \* 2 points
27. 25) The plastics which soften when heat is applied with or without pressure but cooling to set them to shape are called as \_\_\_\_ 2 points
28. 26) The process of binding two or more distinct polymer molecules to form a new product with different characteristics is called as 2 points

Match the following



  
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29. 27) Match the following manufacturing processes with their types and select the correct option 1. Metal framing A. Grinding 2. Surface finish B. Rivetting 3. Sheet metal working C. Extrusion 4. Metal joining D. Blanking \*

Mark only one oval.

- 1-A, 2-C, 3-D, 4-B
- 1-C, 2-A, 3-D, 4-B
- 1-B, 2-A, 3-D, 4-C
- 1-D, 2-B, 3-A, 4-C

One liner questions

30. 28) The metal patterns as compared to wooden patterns requires less \_\_\_\_\_ 2 points
31. 29) In oxy acetaline welding the flame temperature is \_\_\_\_\_ 2 points
32. 30) Give an example of fusion welding 2 points



  
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33. 31) In TIG welding which gas mixture is not used \* 2 points
34. 32) Surface grinding is used to produce 2 points
35. 33) A grinding wheel is made up of \_\_\_\_\_ if the abrasive grains can be easily dislodged 2 points
36. 34) What is the reason for mould leakage in sand factory 2 points
37. 35) The casting process where bees wax is used to form the pattern is called \* 2 points
38. 36) The defects caused to entrapped gases in mould are called as 2 points



  
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- 39. 37) Defect caused by hydrogen present in molten metal during casting is called 2 points  
\_\_\_\_\_
  
- 40. 38) The process in which the pressure chamber is connected to the di-cavity immerced in molten metal is called 2 points  
\_\_\_\_\_
  
- 41. 39) The molten metal is carried in \_\_\_\_\_ 2 points  
\_\_\_\_\_
  
- 42. 40) A runner and riser in a casting process means what 2 points  
\_\_\_\_\_

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## Quiz- Industrial Engineering 7th Semester

All questions answers are compulsory

\* Required

1. Full name of student \*

---

2. Mobile number \*

---

MCQ

3. 1) "Getting things done through others" is a definition of management given by one of the following: \*

Mark only one oval.

- Frederick Taylor
- Henry Fayol
- Lawrence Appley
- Peter Drucker



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4. 2) Which one of the following is not included in the functions of management? \*

Mark only one oval.

- Planning
- Purchasing
- Directing
- Controlling

5. 3) Which one of the following statements does not apply to planning? \*

Mark only one oval.

- Planning is done by top management on a holistic basis.
- Planning is a post-operation activity
- Planning is essential for effective control.
- Forecasting is a free condition of planning.

6. 4) Which one of the following statements relates to controlling function? \*

Mark only one oval.

- In the controlling, the variances are ascertained by comparing the actual activities with the budgeted activities
- Controlling is a pre-function activity.
- The premises are established by the controlling.
- Controlling presupposes the assumptions and forecasting.



  
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7. 5) The shape of the organizational structure is one of the following. \*

Mark only one oval.

- Circular
- Pyramidic
- Rectangular
- Hexagone

8. 6) One of the following is not related to the process of organizing. \*

Mark only one oval.

- Listing of the activities.
- Grouping of activities and establishment of positions as per relative importance of activities.
- Determination of levels of management as per the relative importance of authorities and responsibilities.
- Preparation a budget for resources.

9. 7) Which one of the following is not the characteristic of the line and staff organizations. \*

Mark only one oval.

- Line managers and staff experts both are appointed.
- The line managers enjoy the ultimate respective authority.
- The staff experts are experts in their respective fields.
- The staff expert being expert enjoys the ultimate decision po



  
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10. 8) The matrix structure is suitable to which one of the following type of businesses? \*

Mark only one oval.

- Continuous production system
- Batch production system
- Specialized project activities
- Intangible service-oriented activities.

11. 9) Which one of the following principles enhances the efficiency and job satisfaction? \*

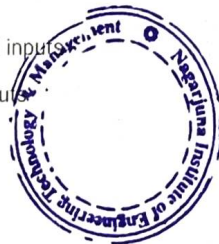
Mark only one oval.

- Division of labour
- Scalar chain
- Delegation of authority
- Centralization of authority

12. 10) Which of the following does not indicate the strategy for the increase in productivity? \*

Mark only one oval.

- Increased output from given inputs
- Decreased outputs from the increased inputs
- Increased outputs from decreased inputs
- Given output from decreased inputs



  
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7. 5) The shape of the organizational structure is one of the following. \*

*Mark only one oval.*

- Circular
- Pyramidic
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- The line managers enjoy the ultimate respective authority.
- The staff experts are experts in their respective fields.
- The staff expert being expert enjoys the ultimate decision po



  
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13. 11) The cost of the finished products tends to be lower under the inflationary market condition when one of the following \*  
inventory valuation method for issues is used?

*Mark only one oval.*


- FIFO  
 LIFO  
 EOQ  
 Weighted Average

14. 12) The cost of the finished products tends to be lower under the inflationary market condition when one of the following \*  
inventory valuation method for issues is used?

*Mark only one oval.*

- FIFO  
 LIFO  
 Weighted Average Method  
 Standard Cost Method



  
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15. 13) Which of the following is not the function of Production, Planning & Control(PPC)? \*

Mark only one oval.

- Routing
- Scheduling
- Integration of processes
- Expediting and follow-up

16. 14) Value analysis does not refer to which of the following value? \*

Mark only one oval.

- Functional value
- Spiritual value
- Esteem value
- Exchange value

17. 15) Which of the following is characteristics of value analysis? \*

Mark only one oval.

- It is the ratio of function and cost.
- It is a technique aiming at reducing costs without affecting the quality of the product.
- Its basic aim is to increase the value of the product.
- All of the above



  
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Fill in the blanks

18. 16) Gantt chart is used for \*

\_\_\_\_\_

19. 17) Human Resource departments are \_\_\_\_\_ \*

\_\_\_\_\_

20. 18) Job Analysis is a systematic procedure for securing and reporting information defining a \_\_\_\_\_ . \*

\_\_\_\_\_

21. 19) \_\_\_\_\_ is an association of employees \*

\_\_\_\_\_



A handwritten signature in green ink, consisting of several loops and a long horizontal stroke.

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22. 20) Section 7 (1) of Payment Of Wages Act 1936, provides that the wages of an employed person shall be paid to him \*  
without \_\_\_\_\_ of any kind, except those authorized under this act.

Mark only one oval.

- Deductions  
 Minimum deductions  
 Delay  
 Fines

One word answer

23. 21) \_\_\_\_\_ is most commonly used method for handling the dispute \*

\_\_\_\_\_

24. 22) Any \_\_\_\_\_ or more members of Trade-Union can apply for registration of Trade Union, as per Trade Union Act 1948. \*

\_\_\_\_\_

25. 23) Any registered Trade-Union, can change their name, if not less than \_\_\_\_\_ of total number of its members, is ready to \*  
change their name.



  
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26. 24) As per Factories Act "Factory" means any premises including the precincts thereof whereon more workers are working or viewer working on any day of the preceding 12 months, and in any part of which a manufacturing process is being carried on without the aid of power, or is ordinarily so carried on. [Sec 2(m)] \*

Mark only one oval.

- 10  
 50  
 Option 3  
 100  
 Other: \_\_\_\_\_

27. 25) The first Factories Act was enacted in \*

\_\_\_\_\_

28. 26) Canteen is to be provided if engaging employees more than \_\_persons. \*

\_\_\_\_\_

Fill in the blanks

29. 27) The applicant / occupier who propose to start the factory should submit the \*

\_\_\_\_\_

One liner questions



  
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30. 28) The employee welfare facilities available inside the organization are called \*

\_\_\_\_\_

31. 29) \_\_\_\_\_ was established as an agency of the League of Nations following the Treaty of Versailles. \*

\_\_\_\_\_

32. 30) Labour issues are solved in \_\_\_\_\_.\*

\_\_\_\_\_

33. 31) Employee state insurance act comes into exist----- \*

\_\_\_\_\_

34. 32) . In which of the following layout type, materials are fed into the first machine and finished products come out of the last machine? \*

\_\_\_\_\_



  
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35. 33) Which of the following refers to 'automation with a human touch'? \*

Mark only one oval.

- Autonomation
- Automation
- Kaizan
- Banchmarking

36. 34) In Supply Chain Management, ATP stands for \_\_\_\_\_. \*

\_\_\_\_\_

37. 35) In supply chain management, Inspection, scrap and repair are examples of \_\_\_\_\_. \*

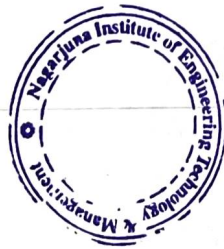
\_\_\_\_\_

38. 36) The core of reverse engineering is an activity called \*

\_\_\_\_\_

39. 37) Quality Circle is also known as ? \*

\_\_\_\_\_



  
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40. 38) -Just-In-Time is aimed at \*

41. 39) . A car won't start unless transmission is in neutral/park position. This is an example of poka-yoke mechanism. \*

Mark only one oval.

True

False

42. 40) Auto shut off on iron is an example of a poka-yoke mechanism. \*

Mark only one oval.

True

False

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College Code - 4192

# NagarJuna

Institute of Engineering, Technology & Management  
(Approved & affiliated to R. M. A. Pur University, Nagpur)

Village Satnavri, Amravati Road, Nagpur 440023

Email: mail@nietm.org; Phone No. 071118 322211, 12

ACADEMIC YEAR 2020-2021

## PARENT MEET

The Parent Teacher meeting was organized online due to **Covid Pandemic** situations during Academic Year 2020-21 by following all the guidelines of the Government of Maharashtra and Central Government.

The objective of the PTM was conducted for discussion of the following topics-

1. Online Conduction of Classes for the students especially in rural areas
2. Syllabus Coverage
3. Online Examinations
4. Covid Vaccination to be made as a safety during the pandemic
5. General health and wellbeing; and on vulnerable populations of students in various locations need to be vaccinated as per guidelines of university and government during pandemic.
6. Connectivity in rural areas was one of the major concern of the parents and their wards, hence students were provided with notes in pdf form, power point presentations and video s from NPTEL and RTMNU shiksha.

Date: 05/05/2021

Place: Nagpur

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NIETM

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