Website: www.jntuk.edu.in
Email: dap@jntuk.edu.in

Phone: 0884-2300991
Mobile: 8008631555

Directorate of Academic Planning

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. 01-08/ JNTUK/DAP/AC/B. Tech-B. Pharmacy/II-III-IV Year/2020-21 *Date: 29-12-2020*

Dr. R. Srinivasa Rao,
Director, Academic Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar for II, III and IV - B. Tech & B. Pharmacy
Academic year 2020-21

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**02.11.2020**		
I Unit of Instruction	02.11.2020	19.12.2020	7W
II Unit of Instructions	21.12.2020	23.01.2021	5W
I Mid Examinations	25.01.2021	30.01.2021	1W
II Unit of Instructions(Continued)	01.02.2021	20.02.2021	3W
II Mid Examinations	22.02.2021	27.02.2021	1W
Preparation & Practicals	01.03.2021	06.03.2021	1W
End Examinations	08.03.2021	20.03.2021	2W
Commencement of II Semester Class Work	**22.03.2021**		
II SEMESTER			
I Unit of Instructions	**22.03.2021**	08.05.2021	7W
I Mid Examinations	10.05.2021	12.05.2021	1/2W
II Unit of Instructions	13.05.2021	30.06.2021	7W
II Mid Examinations	01.07.2021	03.07.2021	1/2W
Preparation & Practicals	05.07.2021	10.07.2021	1W
End Examinations	12.07.2021	24.07.2021	2W
Commencement of next Year Class Work			
Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period			

R. Srinivasa Rao
Director Academic Planning

Director
Academic Planning
JNTUK Kakinada

Copy to the Secretary to the Hon'ble Vice Chancellor, JNTUK
Copy to Rector, JNTUK
Copy to Registrar, JNTUK
Copy to Director Academic Audit, JNTUK
Copy to Director of Evaluation, JNTUK

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES
Devarajugattu (P.O), , Peddaraveedu (Mandal), Prakasam Dist. - 523 320.
(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada, NAAC ACCREDIATED)
(Sponsored by Anna Educational Society)

SUBJECT OPTION FORM (EVEN)

AY:-2020-21

Name of the Faculty : Mr.M.Ramana Reddy Specialization : ECE
Designation : Asst.prof Experience :
Academic Year : 2020-21 Semester : EVEN

Available Subjects:

II-II Subjects(R19) 1.Electronic Circuit Analysis 2. Linear Control Systems 3. Electromagnetic Waves and Transmission Lines 4. Analog Communications 5. Computer Architecture and Organization 6. Management and Organizational Behavior 7. Electronic Circuit Analysis - Lab 8. Analog Communications - Lab	**IV-II Subjects(R16)** 1. Cellular Mobile Communications 2. Electronic Measurements and Instrumentation 3. Satellite Communications 4. Elective III 1. Wireless sensors & Networks 2. Digital IC Design 3. Operating Systems 5 Seminar 6 Project
III-II Subjects(R16) 1. Micro Processors & Micro Controllers 2. Micro Wave Engineering 3. VLSI Design 4. Digital Signal Processing	5. OPEN ELECTIVE 1. OOPs through Java 2. Power Electronics 3. Bio-Medical Engineering 4. Artificial Neural Networks 6. Micro Processors & Micro Controllers Lab 7. VLSI Lab 8. Digital Communications Lab
Other Dept: EEE II-II Subjects(R19): 1. Signals and Systems 2. Digital Electronics 3. Electronic Devises and Circuits Lab	**EEE III-II Subjects(R16):** 1. Microprocessors and Microcontrollers 2. VLSID 3. Microprocessors and Microcontrollers Lab

FACULTY'S SUBJECT PREFERENCE

YEAR	SUBJECTS NAMES(SHORT FORM)								
	SUB1	No.of Times handled	SUB2	No. of Times Handled	SUB3	No. of Times handled	LAB1	LAB 2	LAB 3
I									
II	ECA	3	AC	4					
III	MPMC	5	DSP	3					
IV	SC	4	EMI	2					

Note: Faculty shall give minimum **one** preferences from every year.

Date:

SIGNATURE OF THE FACULTY

For office use only

S.No.	YEAR&SEM	BRANCH	SUBJECTS ALLOCATED	WORK LOAD
1	II-IInd SEM	ECE	ECA (A)	6
2.	II-IInd SEM	ECE	ECA LAB (A)	6
3	I-IInd SEM	ECE	EW (A) LAB	6

HEAD OF THE DEPARTMENT

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SUBJECT OPTION FORM (ODD)

AY:-2020-21

Name of the Faculty : Mrs. N. Swaroopa Rani Specialization : ECE
Designation : Asst. prof Experience :
Academic Year : 2020-21 Semester : ODD

Available Subjects:

II-I Subjects(R19) 1Electronic Devices and Circuits 2 Switching Theory and Logic Design 3 Signals and Systems 4 Random Variables and Stochastic Processes 5 Object Oriented Programming through Java 6 Managerial Economics & Financial Analysis 7 Electronic Devices and Circuits - Lab 8 Switching Theory and Logic Design - Lab	**III-I Subjects(R16)** 1. Computer Architecture and Organization 2. Linear I C Applications 3. Digital I C Applications 4. Digital Communications 5. Antenna and Wave Propagation 6. Pulse and Digital Circuits Lab 7. Linear I C Applications Lab 8. Digital I C Applications Lab 9. MC Professional Ethics & Human Values
IV-I Subjects(R16) 1.Radar Systems 2.Digital Image Processing 3.Computer Networks 4 Optical Communications 5.Elective I 1. TV Engineering 2. Electronic Switching Systems 3. System Design through Verilog	6.Elective II 1.Embedded Systems 2. Analog IC Design 3.Network Security & Cryptography 7.Micro Wave Engineering & Optical Lab 8.Digital Signal Processing Lab
Other Dept: EEE II-II Subjects(R20): Digital Electronics	**EEE III-II Subjects(R19):**Internet of Things

FACULTY'S SUBJECT PREFERENCE

YEAR	SUBJECTS NAMES(SHORT FORM)								
	SUB1	No.of Times handled	SUB2	No. of Times handled	SUB3	No. of Times handled	LAB1	LAB 2	LAB3
I									
II	STLD	5	EDC	3					
III	LICA	3	DICA	2					
IV	ESS	2	RS	4					

Note: Faculty shall give minimum **one** preferences from every year.

Date:

SIGNATURE OF THE FACULTY

For office use only

S.No.	YEAR&SEM	BRANCH	SUBJECTS ALLOCATED	WORK LOAD
1	III-IstSEM	EEE	LICA	6
2	III-IstSEM	ECE	LICA LAB (B)	6
3	IV-IstSEM	ECE	MMIC LAB (A)	6

HEAD OF THE DEPARTMENT

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu – Post, MARKAPUR, Peddaraveedu – Mandal, Prakasam Dist – 523320
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTUK, Kakinada)
Phone: 08596-200332 Mobile : 9666301310
Fax : 08596-22555 Web : kits-anna.com Email:principal@kits-anna.com

CLASS TIME TABLE

Department of Electronics and Communication Engineering

B. Tech – Electronics and Communication Engineering (R19)

Academic Year:2020-2021 **w.e.f: 10/06/2019** **Batch: 2019-2023**

Year: II **Semester: I** **Section: A & B** **Class Room: ON LINE**

	10.00AM - 11.00AM	11.00 AM - 12.00 PM	12.00 PM - 01.00 PM	02.00PM - 03.00PM	03.00PM - 04.00PM	04.00PM – 05.00PM
MON	EDC	S&S	RVSP	STLD	OOPS-JAVA	MEFA
TUE	MEFA	S&S	RVSP	STLD	OOPS-JAVA	EDC
WED	EDC	S&S	RVSP	STLD	OOPS-JAVA	MEFA
THUR	EDC	S&S	MEFA	STLD	OOPS-JAVA	RVSP
FRI	EDC	S&S	RVSP	MEFA	CON-INDIA	STLD
SAT	EDC	S&S	RVSP	STLD	OOPS-JAVA	CON-INDIA

Name of the subject	Name of the Faculty
ELECTRONIC DEVICES & CIRCUITS (EDC)	Mr. K.CH.MALLA REDDY(ECE-A)
	Mr.N.VINOD KUMAR(ECE-B)
SIGNALS & SYSTEMS (S&S)	Dr. P. PRASANNA MURALI KRISHNA
RANDOM VARIABLES & STOCHASTIC PROCESSES (RVSP)	Dr. P. SRINIVASULU
SWITCHING THEORY & LOGIC DESIGN (STLD)	Mr. S.VENKATA KRISHNA
OBJECT ORIENTED PROGRAM THROUGH JAVA (OOPS-JAVA)	Mr. R.SRINIVASULU
MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTANCY (MEFA) -	Mr. S.SRINIVAS
CONSTITUTION OF INDIA (CON-INDIA)	Mr. G.VENKATESWARLU

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CLASS TIME TABLE

Department of Electronics and Communication Engineering

B. Tech – Electronics and Communication Engineering (R20)

Academic Year:2020-2021 **Batch: 2018-2022**

Year: III **Semester: I** **Section: A&B** **Class Room: ON LINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	DICA	AWP	CAO	DC	LICA	DICA
TUE	DICA	AWP	CAO	DC	LICA	AWP
WED	DICA	AWP	CAO	DC	LICA	PE&HV
THUR	DICA	AWP	CAO	DC	LICA	CAO
FRI	DICA	AWP	PE&HV	DC	LICA	PE&HV
SAT	DICA	AWP	CAO	DC	LICA	DC

Name of the Subject	Name of the Faculty
DIGITAL IC APPLICATIONS (DICA)	Mr. V.SIVA SANKAR REDDY(ECE-B)
	Mr.A.M.BHARATH KUMAR(ECE-A)
ANTENNA & WAVE PROPAGATION (AWP)	Mr.A.PRASAD(ECE-A)
	Mr.T.ASHOK REDDY(ECE-B)
COMPUTER ARCHIRECTURE & ORGANIZATION	Mr. B. NAGENDRA REDDY (ECE -A)
	Mr. G.MAHESH (ECE-B)
DIGITAL COMMUNICATIONS (DC)	Mr.G.ULLESHI KUMAR
LINEAR IC APPLICATIONS (LICA)	Mr. M.RAMANA REDDY(ECE-A)
	T.VENU(ECE-B)
PROFESSIONAL ETHICS & HUMAN VALUES (PE & HV)	Mr. CH.S.N. RAJESHWAR

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Department of Electronics and Communication Engineering

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Academic Year:2020-2021 **Batch: 2017-2021**

Year: IV **Semester: I** **Section: A&B** **Classroom:- ONLINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	DIP	ESS	RS	CN	OC	ES
TUE	ES	ESS	RS	CN	OC	DIP
WED	DIP	ES	RS	CN	OC	ESS
THUR	DIP	ESS	ES	CN	OC	RS
FRI	DIP	ESS	RS	ES	OC	CN
SAT	DIP	ESS	RS	CN	ES	OC

Name of the Subject	Name of the faculty
DIGITAL IMAGE PROCESSING (DIP)	- Mr. B.AJANTA REDDY(A&B)
ELECTRONIC SWITCHING SYSTEMS (ESS)	Ms.Y.SARASWATHI(ECE-A)/Ms.M.V.S.USHA SREE(ECE-B)
RADAR SYSTEMS (RS)	- Mr. K.RANJITH KUMAR(A&B)
COMPUTER NETWORKS (CN)	- Mr. CH. BALA SUBRAMANYAM(A&B)
EMBEDDED SYSTEMS (ES)	- Mr. V.RAMA SUBBA REDDY(ECE-A)
	Mr.N.VINOD KUMAR(ECE-B)
OPTICAL COMMUNICATIONS (OC)	- Mr. S.MARIYA BABU(ECE-A)
	Mr.A.M.BHARAT Kumar(ECE-B)

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Year: II **Semester: I** **Section: A & B** **Class Room: OFF LINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	EDC	S&S	RVSP	STLD	OOPS-JAVA	MEFA
TUE	EDC LAB			STLD	OOPS-JAVA	EDC
WED	EDC	S&S	RVSP	STLD	OOPS-JAVA	MEFA
THUR	EDC	S&S	MEFA	STLD	OOPS-JAVA	RVSP
FRI	EDC	S&S	RVSP	MEFA	CON-INDIA	STLD
SAT	EDC	S&S	RVSP	STLD LAB		

NAME OF THE SUBJECT	NAME OF THE FACULTY
ELECTRONIC DEVICES & CIRCUITS (EDC)	Mr. K.CH.MALLA REDDY(ECE-A) Mr. N.VINOD KUMAR(ECE-B)
SIGNALS & SYSTEMS (S&S)	Dr. P. PRASANNA MURALI KRISHNA(A&B)
RANDOM VARIABLES & STOCHASTIC PROCESSES (RVSP)	Dr. P. SRINIVASULU(A&B)
SWITCHING THEORY & LOGIC DESIGN (STLD)	S VENKATA KRISHNA(A & B)
OBJECT ORIENTED PROGRAM THROUGH JAVA (OOPS-JAVA	Mr. R.SRINIVASULU
MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTANCY (MEFA)	Mr. S.SRINIVAS
CONSTITUTION OF INDIA (CON-INDIA)	Mr. G.VENKATESWARLU
STLD LAB	1) Dr. P.P. MURALI KRISHNA 2) V.RAMA SUBBA REDDY
ELECTRONIC DEVICES & CIRCUITS LAB	1) K.CH.MALLA REDDY 2) VENKATA KRISHNA 3)D SWATHI

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Year: III **Semester: I** **Section: A&B** **Class Room: OFF LINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	DICA	AWP	CAO	PDC LAB		
TUE	DICA	AWP	CAO	DC	LICA	AWP
WED	DICA	AWP	CAO	DICA LAB		
THUR	DICA	AWP	CAO	DC	LICA	CAO
FRI	DICA	AWP	PE&HV	DC	LICA	PE&HV
SAT	LICA LAB			DC	LICA	DC

NAME OF THE SUBJECT	NAME OF THE FACULTY
DIGITAL IC APPLICATIONS (DICA)	Mr. V.SIVA SANKAR REDDY(A&B)
ANTENNA & WAVE PROPAGATION (AWP)	Mr.A.PRASAD(ECE-A)
	Mr.T.ASHOK REDDY(ECE-B)
COMPUTER ARCHIRECTURE & ORGANIZATION	Mr. B. NAGENDRA REDDY (ECE -A)
	Mr. G.MAHESH (ECE-B)
DIGITAL COMMUNICATIONS (DC)	MR G ULLESH KUMAR (A & B)
LINEAR IC APPLICATIONS (LICA)	Mr. M.RAMANA REDDY
PROFESSIONAL ETHICS & HUMAN VALUES (PE & HV)	Mr. CH.S.N. RAJESHWAR
PULSE & DIGITAL CIRCUITS LAB -	1)T VENU(ECE-A) 2) Y SARASWATHI(A(ECE-A)
	1.Mr Ajantha Reddy(ECE-B) 2.N Siva Krishna(ECE-B)
LINEAR IC APPLICATIONS LAB -	1) M.RAMANA REDDY (ECE-A) 2) T VENU (ECE-A)
	1.Swaroopa Rani(ECE-B) 2. Mr G Ullesh Kumar(ECE-B)
DIGITAL IC APPLICATIONS LAB -	1) V.SIVA SANKAR REDY (ECE-A&B)
	2 AM Bharath Kumar (ECE-A) 3.V Ramasubbareddy(ECE-B)

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CLASS TIME TABLE

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Academic Year:2020-2021 **Batch: 2017-2021**

Year: IV **Semester: I** **Section: B** **Classroom:- OFFLINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	DIP	ESS	RS	CN	OC	DIP
TUE	ES	ESS	RS	MW&OC/DSP LAB		
WED	DIP	ES	RS	CN	OC	ESS
THUR	DIP	ESS	ES	ES	OC	CN
FRI	DIP	ESS	RS	DSP/MW&OC LAB		
SAT	DIP	ESS	RS	CN	ES	OC

NAME OF THE SUBJECT	NAME OF THE FACULTY	
DIGITAL IMAGE PROCESSING (DIP)	- Mr. B.AJANTA REDDY	
ELECTRONIC SWITCHING SYSTEMS (ESS)	-Ms Y SARASWATHI(ECE-A) Ms. M.V.S USHA SREE(ECE-B)	
RADAR SYSTEMS (RS)	- Mr. K.RANJITH KUMAR(ECE-A&B)	
COMPUTER NETWORKS (CN)	Mr. CH. BALA SUBRAMANYAM(A&B)	
EMBEDDED SYSTEMS (ES)	Mr. V.RAMA SUBBA REDDY(ECE-A) N.VINOD KUMAR(ECE-B)	
OPTICAL COMMUNICATIONS (OC)	- Mr. S.MARIYA BABU(ECE-A) A.M BHARAT KUMAR (ECE-B)	
DIGITAL SIGNAL PROCESSING LAB	1) M.V.S USHA SREE (A) 2) S.MARIYA BABU(A) 1. Mr N Nagarjuna (B) 2. Mr.T.ASHOK REDDY(B)	
MICROWAVE & OPTICAL COMMUNICATIONS LAB	1) A. PRASA (A) 2) K.RANJITH KUMAR(B) 1. N Swaroopa Rani(A)	Mr N Nagarjuna (B)

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B. Tech – Electronics and Communication Engineering (R20)

Academic Year:2020-2021 **Batch: 2017-2021**

Year: IV **Semester: I** **Section: A** **Classroom:- OFFLINE**

	10.00AM - 10.45AM	10.55AM - 11.40AM	11.50 AM - 12.35 PM	01.30PM - 02.15PM	2.25PM - 3.10PM	3.20PM - 4.05PM
MON	DIP	ESS	RS	MW&OC/DSP LAB		
TUE	ES	ESS	RS	CN	OC	DIP
WED	DIP	ES	RS	CN	OC	ESS
THUR	DIP	ESS	ES	DSP/MW&OC LAB		
FRI	DIP	ESS	RS	ES	OC	CN
SAT	DIP	ESS	RS	CN	ES	OC

NAME OF THE SUBJECT	NAME OF THE FACULTY	
DIGITAL IMAGE PROCESSING (DIP)	- Mr. B.AJANTA REDDY	
ELECTRONIC SWITCHING SYSTEMS (ESS)	-Ms Y SARASWATHI(ECE-A) Ms. M.V.S USHA SREE(ECE-B)	
RADAR SYSTEMS (RS)	- Mr. K.RANJITH KUMAR(ECE-A&B)	
COMPUTER NETWORKS (CN)	Mr. CH. BALA SUBRAMANYAM(A&B)	
EMBEDDED SYSTEMS (ES)	Mr. V.RAMA SUBBA REDDY(ECE-A) N.VINOD KUMAR(ECE-B)	
OPTICAL COMMUNICATIONS (OC)	- Mr. S.MARIYA BABU(ECE-A) A.M BHARAT KUMAR (ECE-B)	
DIGITAL SIGNAL PROCESSING LAB	1) M.V.S USHA SREE (A) 2) S.MARIYA BABU(A) 1. Mr N Nagarjuna (B) 2. Mr.T.ASHOK REDDY(B)	
MICROWAVE & OPTICAL COMMUNICATIONS LAB	1) A. PRASA (A) 2) K.RANJITH KUMAR(B) 1. N Swaroopa Rani(A)	Mr N Nagarjuna (B)

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KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Department Of Electronics and Communication Engineering

FACULTY WORK LOAD

Academic year: 2020-21, I-SEM **(online mode class work)**

S.No	Name of the faculty	Theory 1	Theory 2	Lab 1	Lab 2	additional duites	TOTAL
1	Dr P PRASANNA MURALI KRISHNA	S&S (A)	S&S (B)			HOD, TRAINING & PLACEMENT OFFICER	12
2	Dr P SREENIVASULU	RVSP (A)	RVSP (B)			EXAM CELL INCHARGE	12
3	Mr. A. PRASAD	AWP (A)		MW&OC LAB (A)		NAAC - CO-ORDINATOR	12
4	Mr. M. RAMANA REDDY	LICA(A)		LICA LAB(A)		PLACEMENT ASSISTANCE	12
5	Mr. B. AJANTA REDDY	DIP (A)	DIP (B)		PDC LAB (B)	ICT ACADEMY CO-ORDINATOR	18
6	Mr. K. RANJITH KUMAR	RS (A)	RS (B)			NSS CO-ORDINATOR	12
7	Mr.G.ULLESHI KUMAR	DC (A)	DC (B)	LICA LAB (B)			18
8	Mr. K.CH.MALLA REDDY	EDC (A)		EDC LAB (A)	EDC LAB (B)		18
9	Mr.S.VENKATA KRISHNA	STLD (A)	STLD (B)	EDC LAB (B)			18
10	Mr. S.MARIYA BABU	OC (A)		DSP LAB (A)			18
11	Mr. V. SIVA SANKAR REDDY		DICA (B)	DICA LAB (A)	DICA LAB (B)		18
12	Ms. Y.SARASWATHI	ESS (A)		PDC LAB (A)			12
13	Mr. V. RAMA SUBBA REDDY	ES (A)		DICA LAB (A)	DICA LAB (B)		18
14	Mr. G.NAGARJUNA	S&S (EEE)		DSP LAB (B)	MW&OC LAB (B)		18
15	Mrs.D.SWATHI	PDC (EEE)		EDC LAB (A)	MW&OC LAB (B)		18
16	N.SWAROOPA RANI	LICA (EEE)		LICA LAB(B)	MW&OC LAB (A)		18
17	S.SIVA KRISHNA	MECHATRONICS (MECH)		PDC LAB (B)			12
18	Mr.A.M.BHARAT KUMAR	DICA (A)	OC (B)	DICA LAB (A)		NAAC WORK, PLACEMENT ASSISTANCE & ADMINISTRATIVE WORK	18
19	N VINOD KUMAR	EDC (B)	ES (B)				12
20	Mr. T.VENU		LICA(B)	PDC LAB (A)			12
21	Ms.M.V.S USHA SREE	ESS (B)		DSP LAB (B)			12
22	Mr T.ASHOK REDDY	AWP (B)		DSP LAB (B)			

HEAD OF THE DEPARTMENT

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NAAC ACCREDITED INSTITUTION

LESSON PLAN

Department: ECE

Academic Year: 2020-2021 Class: II B.Tech Semester: I

Subject : Random Variables and Stochastic Process Subject Code :

Faculty : No. of Periods estimated:66

Commencement of Instructions: 22/03/2021 **Completion of Instruction:** 30/06/2021

Date of I Mid Exam : 12/05/2021 **Date of II Mid Exam** : 03/07/2021

S No	Unit Number	Topic	No of Periods	Teaching Aid	Books
1		Objectives, overview of course	1	Chalk& talk	T1
2	1. THE RANDOM VARIABLE	Review of probability,Definition of Random Variable and Conditions for a Function to be a Random Variable	1	Chalk& talk	T1
3		Discrete and Continuous, Mixed Random Variable	1	Chalk& talk	R2
4		Random Variables(Tutorial)	1	Practice	
5		Distribution and Density functions	1	Chalk& talk	R3
6		Properties Distribution and Density functions	1	Chalk& talk	T1
7		Binomial ,Gaussian, Poisson, Uniform Distribution and Density functions	1	Chalk& talk	T1
8		Binomial ,Gaussian, problems(Tutorial)	1	Practice	
9		Exponential, Rayleigh Distribution and Density functions	1	Student Seminar	T1
10		Conditional Distribution Conditional Density, Properties &Problems	1	Chalk& talk	T1
		Total	10		
11	2. III OPERATION ON ONE RANDOM VARIABLE – EXPECTATIONS	Introduction, Expected Value and Function of a Random Variable	1	Chalk& talk	T2
12		Moments about the Origin, Central Moments & Variance and Skew	1	Chalk& talk	R2
13		Chebychev's Inequality &Problems	1	Chalk& talk	R4
14		Variance and Skew &Problems(Tutorial)	1	Practice	
15		Characteristic Function & Moment Generating Function &Problems	1	Chalk& talk	R2
16		Transformations of a Random Variable Monotonic Transformations for a Continuous Random Variable	1	Chalk& talk	R2
17		Nonmonotonic Transformations of Continuous Random Variable	1	Student Seminar	T2
18		Chebychev's Inequality(Tutorial)	1	nptel	W1
		Total	08		

S No	Unit Number	Topic	No of Periods	Teaching Aid	Books
19	3. MULTIPLE RANDOM VARIABLES & OPERATIONS ON MULTIPLE RANDOM VARIABLES	Vector Random Variables Joint Distribution Function	1	Chalk& talk	R3
20		Properties of Joint Distribution Marginal Distribution Functions	1	Chalk& talk	R3
21		Conditional Distribution and Density & Statistical Independence &Problems	1	Chalk& talk	T1
22		Conditional Distribution and Joint Distribution and density problems(Tutorial)	1	Practice	
23		Sum of Two and Several Random Variables, &Problems	1	Chalk& talk	T1
24		Central Limit Theorem Unequal Distribution Equal Distributions &Problems	1	Chalk& talk	R2
25		Expected Value of a Function of Random Variables & problems	1	Chalk& talk	R4
26		Marginal Distribution, Central Limit Theorem & problems(Tutorial)	1	Practice	
27		Joint Moments about the Origin, Joint Central Moments &Problems	1	Chalk& talk	T1
28		Joint Characteristic Functions &Problems	1	Student Seminar	R4
29		Jointly Gaussian Random Variables Two Random Variables case &Problems	1	Chalk& talk	R3
30		Two Random Variables case &Problems (Tutorial)	1	Practice	
31		N Random Variable case, Properties Transformations of Multiple Random Variables	1	Chalk& talk	R2
32		Linear Transformations of Gaussian Random Variables & problems	1	Chalk& talk	T1
33		Transformations of Multiple Random Variables, Linear Transformations of Gaussian Random Variables.(Tutorial)	1	Practice	
		Total	**15**		
34	4. RANDOM PROCESSES – TEMPORAL CHARACTERISTICS	I mid answer sheets discussion	1	practice	
35		The Random Process Concept & Classification of Processes	1	Chalk& talk	T1
36		Deterministic and Nondeterministic Processes Distribution and Density Functions	1	Chalk& talk	T1
37		concept of Stationary and Statistical Independence	1	Chalk& talk	T2
38		Deterministic and Nondeterministic Processes Distribution and Density Functions(Tutorial)	1	practice	R2

S No	Unit Number	Topic	No of Periods	Teaching Aid	Books
39	4. RANDOM PROCESSES – TEMPORAL CHARACTERISTICS	First-Order Stationary Processes & Second- Order Wide-Sense Stationary & (N-Order)	1	Chalk& talk	R3
40		Strict-Sense Stationary Time Averages.	1	Chalk& talk	R2
41		Ergodicity.Mean-Ergodic Processes	1	Chalk& talk	R1
42		Ergodicity.Mean-Ergodic Processes(Tutorial)	1	nptel	W1
43		Autocorrelation Function and Its Properties	1	Chalk& talk	T2
44		Cross-Correlation Function and Its Properties	1	Student Seminar	T1
45		Covariance Functions, Poisson Random Process, Gaussian Random Processes	1	Chalk& talk	T1
46		Gaussian Random Processes (Tutorial)	1	nptel	W1
		Total	**13**		
47	5. RANDOM PROCESSES – SPECTRAL CHARACTERISTICS & LINEAR SYSTEMS WITH RANDOM INPUTS	The Power Spectrum Properties.	1	Chalk& talk	T1
48		Relationship between Power Spectrum Autocorrelation Function.	1	Chalk& talk	T2
49		Power Spectrum Autocorrelation Function(Tutorial)	1	practice	
50		The Cross-Power Density Spectrum Properties.	1	Chalk& talk	R1
51		Relationship between Cross-Power Spectrum and Cross-Correlation Function.	1	Chalk& talk	R2
52		Cross-Correlation Function.	1	Student seminar	
53		Previous Question Papers(Tutorial)	1	practice	
54		Random Signal Response of Linear Systems	1	Chalk& talk	T2
55		System Response – Convolution Mean and Mean-squared Value of System Response	1	Nptel video	W1
56		Autocorrelation Function of Response	1	Chalk& talk	R2
57		Autocorrelation Function(Tutorial)	1		
58		Cross-Correlation Functions of Input and Output Spectral Characteristics of System Response	1	Chalk& talk	R2
59		Power Density Spectrum of Response	1	Chalk& talk	T1
60		Cross-Power Density Spectrums of Input and Output	1	Chalk& talk	T1

S No	Unit Number	Topic	No of Periods	Teaching Aid	Books
61	5. RANDOM PROCESSES – SPECTRAL CHARACTERISTICS & LINEAR SYSTEMS WITH RANDOM INPUTS	Power Density Spectrum, Cross-Power Density Spectrums(Tutorial)	1	practice	
62		Band-Limited and Narrowband Processes	1	Chalk& talk	R5
63		Modeling of Noise Sources & Resistive (Thermal) Noise Source	1	Nptel	W1
64		Arbitrary Noise Sources & Effective Noise Temperature	1	Chalk& talk	R2
65		Average Noise Figures & Average Noise Figure of cascaded networks	1	Web resource	W2
66		Arbitrary Noise Sources, Resistive (Thermal) Noise Source(Tutorial)	1	Student Seminar	T1
		Total	**20**		
67		Revision	1	practice	
68		Revision	1	practice	

TEXT BOOKS:

T1. Probability, Random Variables & Random Signal Principles, Peyton Z.Peebles, THM.4th Edition.2001

T2. Probability, Random Variables and Stochastic Processes, Athanasios Papoulis and S.Unnikrishna, PHI 4th Edition.2002.

T3.Probability and random processes with applications to signal processing ,Henry Starkand john Wawoods,person education 3rd Edition,2001.

REFERENCE BOOKS:

R1.Schaum's outline of probability ,random variables and random processes 1997.

R2.An introduction to Random signals and communication Theory B.P.Lathai,international Textbook.1998.

R3.Probability theory and Random processes.P.Ramesh Babu .McGrawHill,2015.

R4. Probability theory and Statistics by Murugesan

R5.An Introduction to Random Signal and communication Theory, B.P.Lathi,

W1:- Nptel Video

W2:- Web Resource

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY& SCIENCES
Devarajugattu (Post) , Peddaraveedu (Mandal), Prakasam Dist. - 523320.
(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada)
NAAC ACCREDITED INSTITUTION

A.Y:- 2020-21

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

COURSE FILE

Year & Sem: II B.Tech I sem **Subject:** RVSP

S.No.	Content
1	Academic Calendar
2	Class Time Table
3	Students Roll List
4	Syllabus
5	Vision & Mission of the Institute and Department
6	List of CO's and PO's and PSO's
7	CO and PO Mapping
8	I. Lesson Plan II. Tutorial Plan III. Lecture Delivery Sheet IV. Subject Lecture Notes
9	E-copies I. Animations II.E-courses III. List of Authors IV. List of Text Books
10	Subject Question Bank
11.	Quiz Question Bank unit wise
12	Internal Exam Question paper(MID paper & Internal exam script)
13	Measures Taken weak and bright students I. Weak students (Slow learners) II. Remedial class time table III. Bright Students list
14	Curriculum gaps (if any) and justifications
15	Previous Year Question Papers
16	Subject Wise Results
17	Attendance Register

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu (P.O), , Peddaraveedu (Mandal), Prakasam Dist. - 523 320.

(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada, NAAC ACCREDIATED)

(Sponsored by Anna Educational Society)

CLASS: II B-Tech I Sem BRANCH: ECE DATE: 20/1/2021

CLASS REVIEW COMMITTEE MEETING

S.NO	Name of the subject	Faculty Name	No. of Units/ Experiments completed	No. of Periods taken	% completion of present Unit	Signature of Staff member
1	EDC	K.CH.Malla Reddy	II	25	10% of III Unit	
2	SS	Dr P. Anjanna murali krishna	2	23	5% of unit	
3	RVSP	Dr. P. Srinivasulu	2	24	5% of 3rd unit	
4	STLD	V.Rama Subba Reddy	2	25	10% of 3rd Unit	
5	OOPS-JAVA	R. Srinivasulu	2	22	15% of III Unit	
6	MEFA	S. Srinivasulu	2	22	25% of III Unit	
7	COI	G.Venkateswarlu	2	20	30% of 3rd unit	
8	EDCLAB	Mr. K.CH.Malla Reddy	4	15	—	
9	STLDLAB	Dr. P Anjanamurthi Krishna	5	18	—	
10						

S.NO	Roll No	Name of the student	Signature
1	19J41A0413	m. Ganesh	m.ganesh
2	19J1A0493	D. Venkatesh	D.Venkatesh
3	19J1A0464	K. sheshalatha.	K.Sheshalatha

CRC In charge

HOD

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu (P.O), , Peddaraveedu (Mandal), Prakasam Dist. - 523 320.

(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada, NAAC ACCREDIATED)

(Sponsored by Anna Educational Society)

CLASS: III B Tech I Sem BRANCH: ECE DATE: 20/1/2021

CLASS REVIEW COMMITTEE MEETING

S.NO	Name of the subject	Faculty Name	No. of Units/ Experiments completed	No. of Periods taken	% completion of present Unit	Signature of Staff member
1	DICA	V. Siva Sanker Reddy	2	25	5% of 5th unit	
2	AWP	A. Prasad	2	26	10% of 3rd unit	
3	CAO	G. Mahesh.	2	26	30%	
4	DC	G. Ullesh kumar	2	25	10% of 3rd Unit	
5	LICA	M. Ramana Reddy	2	24	5% of 3rd unit	
6	PDC LAB	B. Ajantha Reddy	4	15	—	
7	LICA LAB	M. Ramana Reddy	5	15	—	
8	DICA LAB	V. Siva Sanker Reddy	4	15	—	
9						
10						

S.NO	Roll No	Name of the student	Signature
1	18JU1A0434	N. Madhuri	Madhuri
2	18JU1A0458	A. Raghu.	A. Raghu
3	18JU1A0497	Neenakshi Jain	Neenakshi

A. Raghu
CRC In charge

HOD

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu (P.O), , Peddaraveedu (Mandal), Prakasam Dist. - 523 320.

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(Sponsored by Anna Educational Society)

CLASS: IV B.Tech I Sem BRANCH: ECE DATE: 20/1/2021

CLASS REVIEW COMMITTEE MEETING

S.NO	Name of the subject	Faculty Name	No. of Units/ Experiments completed	No. of Periods taken	% completion of present Unit	Signature of Staff member
1	DIP	B.Ajantha Reddy	2	26	5% of 3rd unit	
2	ESS	G. Ullesh Kumar	2	26	10% of 3rd unit	
3	CN	CH. Balasubramanyam	2	27	20% of 3rd unit	
4	ES	V. Rama Subba Reddy	1	22	90% of 2nd unit	V.R.S.R
5	OC	S. Maniya Babu	2	24	20%	S.M.B.
6	DSP LAB	S. Maniya Babu	3	15	—	S.M.B
7	MWOC LAB	A. Prasad	4	15	—	A. Prasad
8						
9						
10						

S.NO	Roll No	Name of the student	Signature
1	17JV1A0409	B. Deepika	B. Deepika
2	17JV1A0443	G. Narayana	G. Narayana
3	17JV1A0474	A. Sirisha	A. Sirisha

V.R.S.R.
CRC In charge

HOD

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES:: MARKAPUR

CIRCULAR

Date: **21-07-2022**

II Mid Examinations for **I - B.Tech II Sem (R20)** students are scheduled from Monday, **25th JULY 2022**. The Time Tables for Online Objective Test and Subjective Tests are sent for circulation.

The subject teachers are requested to prepare the **TWO SETS** of question papers for the subjective tests and submit the soft copy to the exam Section two days before the schedule of examination.

The Subjective Exam will be conducted from: **02.30 PM TO 04.00 PM – MID TERM - II**
(Descriptive)

The **Online Exam** will be conducted from : **10.00 A.M to 01.00 P.M**

******Note: The faculty according to timetable has to act as Invigilator for online exam******

EXAM SECTION I/C

PRINCIPAL

COPY TO HOD'S:

S&H :

ON-LINE IN-CHARGE :

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH II SEMESTER (R20 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, JULY - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

Branch	25-07-2022 (Monday)	26-07-2022 (Tuesday)	27-07-2022 (Wednesday)	28-07-2022 (Thursday)	29-07-2022 (Friday)	30-07-2022 (Saturday)
Subjects	Mathematics – II **R201201**	Building Materials and Concrete Technology **R201205** (Only for CE) Applied Physics **R201207** (Comm to EEE, ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DC) Basic Electrical and Electronics Engineering **R201211** (Comm to ME,AME, Mining,PE,FE,Pharm. E)	Programming for Problem Solving Using C **R201204** (Comm to CE, Agri E) Data Structures Through C **R201208** (Only for EEE) Basic Electrical Engineering **R201214** (Comm to ECE, EIE, ECT) Computer Organization **R201216** (Comm to CSE,IT) Digital Logic Design **R201221** (Comm to CSE-CS&T, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, CSE-CS, CSE-IOT&CS INCL BCT, CSE-CS&BS,CSE-IOT, AI&DS, Cyber Security) Engineering Physics **R201222** (Comm. to AME, Mining, PE,FE)	Data Structures **R201218** (Comm to CSE, IT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Problem Solving Using Python **R201219** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Pharmaceutical Chemistry **R201258** (Only for Pharm. E) Electrical Circuit Analysis –I **R201209** (Only for EEE) Engineering Mechanics **R201210** (Comm to ME, PE, Agri E, FE) Mechanics of Solids **R201255** (Only for Mining) Metallurgy & Materials Science **R201256** (Only for AME)	Engineering Mechanics **R201203** (Only for CE) Thermodynamics **R201254** (Only for ME) Basic Civil and Mechanical Engineering **R201227** (Only for EEE) Computer Aided Engineering Drawing **R201226** (Only for FE) Engineering Drawing **R201224** (Comm to Mining, Agri.E, Phar.E) Object Oriented Programming through Java **R201212** (Comm to ECE,EIE, ECT) Basic Electrical & Electronics Engineering **R201220** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Engineering Graphics **R201257** (Only for AME) Python Programming **R201225** (Comm to CSE, IT ,CSE-AI&ML,CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Elements of Mechanical Engineering **R201223** (Only for PE)	Mathematics-III **R201206** (Only for EEE) Engineering Chemistry **R201202** (Comm. to CE,ME ,Agri.E) Applied Chemistry **R201215** (Comm to CSE, CSE-CS&T, IT, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Network Analysis **R201213** (Comm to ECE,EIE, ECT) Engineering and Solid Mechanics **R201259** (Only for Pharm. E)

NOTE:

i. ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.

ii. EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

iii. THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE TIME TABLE IMMEDIATELY.

DATE: 14-07-2022

Controller of Examinations

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES:: MARKAPUR

CIRCULAR

Date: **17-06-2022**

II Mid Examinations for **II - B.Tech II Sem (R20)** students are scheduled from Monday, **20th JUNE 2022**. The Time Tables for Online Objective Test and Subjective Tests are sent for circulation.

The subject teachers are requested to prepare the **TWO SETS** of question papers for the subjective tests and submit the soft copy to the exam Section two days before the schedule of examination.

The Subjective Exam will be conducted from : **2.30 PM TO 4.00 PM**

The **Online Exam** will be conducted from : **10.00 AM to 01.00 P.M**

****Note: The faculty according to timetable has to act as Invigilator for online exam***

EXAM SECTION I/C

PRINCIPAL

COPY TO HOD'S:

CE :

ECE :

CSE :

ON-LINE IN-CHARGE :

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, JUNE - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	20-06-2022 (Monday)	**21-06-2022 (Tuesday)**	**22-06-2022 (Wednesday)**	**23-06-2022 (Thursday)**	**24-06-2022 (Friday)**
CIVIL ENGINEERING (01-CE)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Strength of Materials -II **R2022012**	Hydraulics and Hydraulic Machinery **R2022013**	Environmental Engineering **R2022014**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Python Programming **R2022021** (Common to EEE, FE)	Digital Electronics **R2022022**	Power System-I **R2022023**	Induction and Synchronous Machines **R2022024**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
MECHANICAL ENGINEERING (03-ME)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Material Science & Metallurgy **R2022031**	Dynamics of Machinery **R2022032**	Thermal Engineering-I **R2022033**	Industrial Engineering and Management **R2022034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Digital IC Design **R2022042**	Analog Communications **R2022043** (Common to ECE,ECT)	Linear Control Systems **R2022044** (Common to ECE,EIE)	Management and Organizational Behavior **R2022045** (Common to ECE, PE)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

T I M E T A B L E

TIME: 02.00 PM TO 04.00 PM

BRANCH	DATE & DAY					
	22-11-2021 (Monday)	**23-11-2021 (Tuesday)**	**24-11-2021 (Wednesday)**	**25-11-2021 (Thursday)**	**26-11-2021 (Friday)**	**27-11-2021 (Saturday)**
CIVIL ENGINEERING (01 CE)	Structural Analysis **(R1931011)**	Concrete Technology **(R1931012)**	Water Resources Engineering - I **(R1931013)**	Environmental Engineering - II **(R1931014)**	……	**Program Elective – I :-** i) Repair & Rehabilitation of Buildings (**R193101A**) ii) Environmental Impact Assessment (**R193101B**) iii) Reinforced Soil Structures (**R193101C**) iv) Traffic Engineering (**R193101D**) v) Construction Technology & Management (**R193101E**) **Open Elective – I (Choose any One** i) Disaster Management (**R193101F**) ii) Environmental Pollution & Control iii) Elements of Civil Engineering iv) Green Technology (**R193101I**) v) Smart Cities (**R193101J**) vi) Project Management (**R193101K**) vii) Traffic Safety (**R193101L**) viii) Geo-Spatial Technologies (**R193101M**) ix) Wastewater Treatment(**R193101N**)
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Power Systems-II **(R1931021)**	Power Electronics **(R1931022)**	Linear IC Applications **(R1931023)**	Digital Signal Processing **(R1931024)**	Microprocessors and Microcontrollers **(R1931025)**	……

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

T I M E T A B L E

TIME: 02.00 PM TO 04.00 PM

BRANCH	DATE & DAY					
	22-11-2021 (Monday)	**23-11-2021 (Tuesday)**	**24-11-2021 (Wednesday)**	**25-11-2021 (Thursday)**	**26-11-2021 (Friday)**	**27-11-2021 (Saturday)**
MECHANICAL ENGINEERING (03 ME)	Dynamics of Machinery **(R1931031)**	Design of Machine Members-II **(R1931032)**	Mechanical Measurements & Metrology **(R1931033)**	Managerial Economics and Financial Accountancy **(R1931034)**	IC Engines & Gas turbines (R1931035)	……
ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Linear Integrated Circuits and Applications **(R1931041)**	Microprocessor and Microcontrollers **(R1931042)**	Digital Communications **(R1931043)**	Electronic Measurements & Instrumentation **(R1931044)**	……	**Professional Elective (PE 1) :-** i) Information Theory & Coding **(R193104A)** ii) Digital System Design Using HDL **(R193104B)** iii) Datastructures and Algorithms **(R193104C)** iv) Soft Computing Techniques and Python Programming **(R193104D)** v) Simulation & Mathematical Modeling **(R193104E)**
COMPUTER SCIENE & ENGINEERING (05 CSE)	Data Warehousing and Data Mining **(R1931051)**	Computer Networks **(R1931052)**	Compiler Design **(R1931053)**	Artificial Intelligence **(R1931054)**	……	**Professional Elective- I:-** i) Computer Graphics **(R193105A)** ii) Principles of Programming Languages **(R193105B)** iii) Advanced Data Structures **(R193105C)** iv) Software Testing Methodologies **(R193105D)** v) Advanced Computer Architecture **(R193105E)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

T I M E T A B L E

TIME: 02.00 PM TO 04.00 PM

BRANCH	DATE & DAY					
	22-11-2021 (Monday)	**23-11-2021 (Tuesday)**	**24-11-2021 (Wednesday)**	**25-11-2021 (Thursday)**	**26-11-2021 (Friday)**	**27-11-2021 (Saturday)**
INFORMATION TECHNOLOGY (12 IT)	Advanced Data Structures **(R1931121)**	Computer Networks **(R1931122)**	Compiler Design **(R1931123)**	Artificial Intelligence **(R1931054)**	Design and Analysis of Algorithms (R1931124)	**Professional Elective -I:-** i) Software Testing Methodologies **(R193105D)** ii) NoSQL Databases **(R193112A)** iii) Scripting Languages **(R193112B)** iv) Computer Graphics **(R193105A)** v) R-Programming **(R193112C)**
AUTO MOBILE ENGINEERING (24 AME)	Dynamics of Machinery **(R1931031)**	Fuels and Combustion **(R1931241)**	Automotive Components Design **(R1931242)**	Micro Processors and Micro Controllers **(R1931243)**	Machine Tools & Metrology **(R1931244)**	……
MINING ENGINEERING (26 MM)	Underground Coal Mining Technology **(R1931261)**	Mine Environment Engineering – II **(R1931262)**	Rock Mechanics **(R1931263)**	Mining Machinery & Mechanization-I **(R1931264)**	Corporate Social Responsibility in Mining **(R1931265)**	**Open Elective :-** i) Waste Water Management **(R193126A)** ii) Environmental impact analysis **(R193126B)** iii) Disaster Management and Mitigations **(R193126C)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

T I M E T A B L E

TIME: 02.00 PM TO 04.00 PM

BRANCH	DATE & DAY					
	22-11-2021 (Monday)	**23-11-2021 (Tuesday)**	**24-11-2021 (Wednesday)**	**25-11-2021 (Thursday)**	**26-11-2021 (Friday)**	**27-11-2021 (Saturday)**
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27 PE)	Process Dynamics & Control **(R1931271)**	Well Logging & Formation Evaluation **(R1931272)**	Drilling & Well Completions **(R1931273)**	Managerial Economics & Financial Accounting **(R1931034)**	……	**Professional Elective -I :-** i) Fundamentals of Liquefied Natural Gas. **(R193127A)** ii) CBM Reservoir Engineering **(R193127B)** **Open Elective - I :-** i) Disaster Management (**R193101F)** ii) Renewable Energy Sources (**R193127C)**
AGRICULTURAL ENGINEERING (35 AGE)	Thermodynamics and Refrigeration systems **(R1931351)**	Soil and Water Conservation Engineering **(R1931352)**	Agricultural Process Engineering **(R1931353)**	Managerial Economics and Financial Analysis **(R1931034)**	Farm Machinery and Equipment - I **R1931354**	……

NOTE:

(i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.

(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

Controller of Examinations

DATE: 08-11-2021

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	30.05.2022 (Monday)	**31.05.2022 (Tuesday)**	**01.06.2022 (Wednesday)**	**02.06.2022 (Thursday)**	**03-06-2022 (Friday)**	**04-06-2022 (Saturday)**
CIVIL ENGINEERING (01 CE)	Design & Drawing of Reinforced Concrete Structures **(R1932011)**	Water Resources Engineering – II **(R1932012)**	Geotechnical Engineering - I **(R1932013)**	Managerial Economics & Financial Analysis **(R1932014)**	**Program Elective – II :-**	**Open Elective – II (Choose any One**
					i) Pre-stressed Concrete **(R193201A)**	i) Disaster Management **(R193201F)**
					ii) Watershed Management **(R193201B)**	ii) Environmental Pollution & Control **(R193201G)**
					iii) Advanced Foundation Engineering **(R193201C)**	iii) Elements of Civil Engineering **(R193201H)**
					iv) Urban Transportation Planning **(R193201D)**	iv) Green Technology **(R193201I)**
					v) Architecture Town Planning **(R193201E)**	v) Smart Cities **(R193201J)**
						vi) Project Management **(R193201K)**
						vii) Traffic Safety **(R193201L)**
						viii) Geo-Spatial Technologies **(R193201M)**
						ix) Wastewater Treatment **(R193201N)**
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Electric Drives **(R1932021)**	Power System Analysis **(R1932022)**	Data Structures **(R1932023)**	Digital Control Systems **(R1932024)**	**Elective – I :-**	**Open Elective – I**
					i) Digital IC Applications **(R193202A)**	i) Renewable Energy Sources **(R193202G)** (Except EEE)
					ii) Communication Systems **(R193202B)**	ii) Essentials of Analog and Digital Electronics **(R193202H)** (Except EEE)
					iii) Computer Networks **(R193202C)**	iii) Electrical Estimation and Costing **(R193202I)** (Except EEE)
					iv) Internet of Things Applications To Electrical Engineering **(R193202D)**	iv) Power Electronics Devices & Circuits **(R193202J)** (Except EEE)
					v) VLSI Design **(R193202E)**	v) Fundamentals of Electrical Machines **(R193202K)** (Except EEE)
					vi) Cloud Computing **(R193202F)**	

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	30.05.2022 (Monday)	**31.05.2022 (Tuesday)**	**01.06.2022 (Wednesday)**	**02.06.2022 (Thursday)**	**03-06-2022 (Friday)**	**04-06-2022 (Saturday)**
MECHANICAL ENGINEERING (03 ME)	Operations Research **(R1932031)**	Heat Transfer **(R1932032)** (Common to ME,AME)	CAD/CAM **(R1932033)**	.....	**Elective – I :-** i) Composite Materials **(R193203A)** ii) Refrigeration & Air Conditioning **(R193203B)** iii) Unconventional Machining Processes **(R193203C)** iv) Advanced Mechanics of Solids **(R193203D)** v) MOOCS(NPTEL/Swayam) **(R193203E)**	**Elective – II** i) Material Characterization **(R193203F)** ii) Tribology **(R193203G)** iii) Automobile Engineering **(R193203H)** iv) Mechatronics **(R193203I)** v) MOOCS(NPTEL/Swayam) **(R193203J)**
ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Wired and Wireless Transmission Devices **(R1932041)**	VLSI Design **(R1932042)**	Digital Signal Processing **(R1932043)**	Internet of Things **(R1932044)**	**Professional Elective (PE II) :-** i) Cellular & Mobile Communication **(R193204A)** ii) Digital IC Design **(R193204B)** iii) Business Intelligence & Analytics **(R193204C)** iv) Pattern Recognition**(R193204D)** v) Robotics and Automation **(R193204E)**	**Open Elective (OE1)** i) Data Mining **(R193204F)** ii) Power Electronics **(R193204G)** iii) MEMS and its Applications **(R193204H)** iv) Artificial Neural Networks**(R193204I)** iv) Principles of Communication **(R193204J)** (Except ECE)
COMPUTER SCIENE & ENGINEERING (05 CSE)	Web Technologies **(R1932051)** (Common to CSE,IT)	Distributed Systems **(R1932052)**	Design and Analysis of Algorithms **(R1932053)**	Managerial Economics and Financial Accountancy **(R1932054)** (Common to CSE,IT)	**Professional Elective (PE II) :-** i) Mobile Application Development **(R193205A)** ii) Information Retrieval System **(R193205B)** iii) Social Networks Analysis **(R193205C)** iv) MOOCS (NPTEL/SWAYAM) **(R193205D)**	**Open Elective (OE I) :-** i) Data Structures **(R193205E)** (Except CSE and IT) ii) Java Programming **(R193205F)** (Except CSE and IT) iii) Database Management Systems **(R193205G)** (Except CSE and IT) iv) C++ Programming **(R193205H)** (Except CSE and IT) v) Operating Systems **(R193205I)** (Except CSE and IT) vi) Internet of Things **(R193205J)** (Except CSE and IT)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	30.05.2022 (Monday)	**31.05.2022 (Tuesday)**	**01.06.2022 (Wednesday)**	**02.06.2022 (Thursday)**	**03-06-2022 (Friday)**	**04-06-2022 (Saturday)**
INFORMATION TECHNOLOGY (12 IT)	Web Technologies **(R1932051)** (Common to CSE,IT)	Data Warehousing and Data Mining **(R1932121)**	……	Managerial Economics and Financial Accountancy **(R1932054)** (Common to CSE,IT)	**Professional Elective (PE II) :-** i) Web Security **(R193212A)** ii) Software Project Management **(R193212B)** iii) Natural Language Processing **(R193212C)** iv) MOOCS (NPTEL/SWAYAM)**(R193212D)**	**Open Elective (OE I) :-** i) Data Structures **(R193205E)** (Except CSE and IT) ii) Java Programming **(R193205F)** (Except CSE and IT) iii) Database Management Systems **(R193205G)** (Except CSE and IT) iv) C++ Programming **(R193212E)** (Except CSE and IT) v) Operating Systems **(R193212F)** (Except CSE and IT) vi) Internet of Things **(R193212G)** (Except CSE and IT)
AUTO MOBILE ENGINEERING (24 AME)	Electrical Vehicles & Hybrid Technology **(R1932241)**	Heat Transfer **(R1932032)** (Common to ME,AME)	Automotive Chassis Design **(R1932242)**	Automotive Pollution and Control **(R1932243)**	…….	**OPEN ELECTIVE(offered to other** i) Basic Automobile Engineering **(R193224A)** ii) Automotive Maintenance and Safety **(R193224B)** iii) Automotive Emissions and Effects **(R193224C)**
MINING ENGINEERING (26 MM)	Mine Ground Control **(R1932261)**	Mineral processing **(R1932262)**	Under Ground Metal Mining Technology **(R1932263)**	Mining Machinery & Mechanization-II **(R1932264)**	…….	**Open Elective - II** i) Industrial Robotics **(R193226A)** ii) Artificial intelligence **(R193226B)** iii) Introduction to Data Base Management System **(R193226C)**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)	Petroleum Production Engineering **(R1932271)**	Petroleum Reservoir Engineering-II **(R1932272)**	Petroleum Refinery & Petrochemical **Engineering (R1932273)**	…….	**Professional Elective (PE II) :-** i) Offshore Engineering **(R193227A)** ii) Advanced Well Completion Engineering **(R193227B)** iii)Applied Mathematics in Reservoir Engineering**(R193227C)**	**OPEN ELECTIVE – II** i) Basic concepts in Petroleum Drilling and Completions **(R193227D)** ii) Basic concepts in Petroleum Production Engineering **(R193227E)** iii) Basic concepts in Petroleum Reservoir Engineering **(R193227F)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	30.05.2022 (Monday)	**31.05.2022 (Tuesday)**	**01.06.2022 (Wednesday)**	**02.06.2022 (Thursday)**	**03-06-2022 (Friday)**	**04-06-2022 (Saturday)**
AGRICULTURAL ENGINEERING (35 AGE)	Irrigation and Drainage Engineering **(R1932351)**	Engineering Properties of Biological Materials **(R1932352)**	Farm Machinery Equipment - II **(R1932353)**	Dairy and Food Engineering **(R1932354)**	**Professional Elective - I**	**Open Elective - I**
					i) Seed Processing and Storage Engineering **(R193235A)**	i) Operations Research **(R193235D)**
					ii) Greenhouse Technology **(R193235B)**	ii) Robotics and Automation **(R193235E)**
					iii) Tractor Design and Testing **(R193235C)**	**iii)** Finite Element Method **(R193235F)**

NOTE:

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DATE: 23-05-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	11.04.2022 (Monday)	**12.04.2022 (Tuesday)**	**13.04.2022 (Wednesday)**	**16.04.2022 (Saturday)**	**18-04-2022 (Monday)**	**19-04-2022 (Tuesday)**
CIVIL ENGINEERING (01 CE)	Design & Drawing of Reinforced Concrete Structures **(R1932011)**	Water Resources Engineering – II **(R1932012)**	Geotechnical Engineering - I **(R1932013)**	Managerial Economics & Financial Analysis **(R1932014)**	**Program Elective – II :-**	**Open Elective – II (Choose any One**
					i) Pre-stressed Concrete **(R193201A)**	i) Disaster Management **(R193201F)**
					ii) Watershed Management **(R193201B)**	ii) Environmental Pollution & Control **(R193201G)**
					iii) Advanced Foundation Engineering **(R193201C)**	iii) Elements of Civil Engineering **(R193201H)**
					iv) Urban Transportation Planning **(R193201D)**	iv) Green Technology **(R193201I)**
					v) Architecture Town Planning **(R193201E)**	v) Smart Cities **(R193201J)**
						vi) Project Management **(R193201K)**
						vii) Traffic Safety **(R193201L)**
						viii) Geo-Spatial Technologies **(R193201M)**
						ix) Wastewater Treatment **(R193201N)**
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Electric Drives **(R1932021)**	Power System Analysis **(R1932022)**	Data Structures **(R1932023)**	Digital Control Systems **(R1932024)**	**Elective – I :-**	**Open Elective – I**
					i) Digital IC Applications **(R193202A)**	i) Renewable Energy Sources **(R193202G)** (Except EEE)
					ii) Communication Systems **(R193202B)**	ii) Essentials of Analog and Digital Electronics **(R193202H)** (Except EEE)
					iii) Computer Networks **(R193202C)**	iii) Electrical Estimation and Costing **(R193202I)** (Except EEE)
					iv) Internet of Things Applications To Electrical Engineering **(R193202D)**	iv) Power Electronics Devices & Circuits **(R193202J)** (Except EEE)
					v) VLSI Design **(R193202E)**	v) Fundamentals of Electrical Machines **(R193202K)** (Except EEE)
					vi) Cloud Computing **(R193202F)**	

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	11.04.2022 (Monday)	**12.04.2022 (Tuesday)**	**13.04.2022 (Wednesday)**	**16.04.2022 (Saturday)**	**18-04-2022 (Monday)**	**19-04-2022 (Tuesday)**
MECHANICAL ENGINEERING (03 ME)	Operations Research **(R1932031)**	Heat Transfer **(R1932032)** (Common to ME,AME)	CAD/CAM **(R1932033)**	.....	**Elective – I :-**	**Elective – II**
					i) Composite Materials **(R193203A)**	i) Material Characterization **(R193203F)**
					ii) Refrigeration & Air Conditioning **(R193203B)**	ii) Tribology **(R193203G)**
					iii) Unconventional Machining Processes **(R193203C)**	iii) Automobile Engineering **(R193203H)**
					iv) Advanced Mechanics of Solids **(R193203D)**	iv) Mechatronics **(R193203I)**
					v) MOOCS(NPTEL/Swayam) **(R193203E)**	v) MOOCS(NPTEL/Swayam) **(R193203J)**
ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Wired and Wireless Transmission Devices **(R1932041)**	VLSI Design **(R1932042)**	Digital Signal Processing **(R1932043)**	Internet of Things **(R1932044)**	**Professional Elective (PE II) :-**	**Open Elective (OE1)**
					i) Cellular & Mobile Communication **(R193204A)**	i) Data Mining **(R193204F)**
					ii) Digital IC Design **(R193204B)**	ii) Power Electronics **(R193204G)**
					iii) Business Intelligence & Analytics **(R193204C)**	iii) MEMS and its Applications **(R193204H)**
					iv) Pattern Recognition**(R193204D)**	iv) Artificial Neural Networks**(R193204I)**
					v) Robotics and Automation **(R193204E)**	iv) Principles of Communication **(R193204J)** (Except ECE)
COMPUTER SCIENE & ENGINEERING (05 CSE)	Web Technologies **(R1932051)** (Common to CSE,IT)	Distributed Systems **(R1932052)**	Design and Analysis of Algorithms **(R1932053)**	Managerial Economics and Financial Accountancy **(R1932054)** (Common to CSE,IT)	**Professional Elective (PE II) :-**	**Open Elective (OE I) :-**
					i) Mobile Application Development **(R193205A)**	i) Data Structures **(R193205E)** (Except CSE and IT)
					ii) Information Retrieval System **(R193205B)**	ii) Java Programming **(R193205F)** (Except CSE and IT)
					iii) Social Networks Analysis **(R193205C)**	iii) Database Management Systems **(R193205G)** (Except CSE and IT)
					iv) MOOCS (NPTEL/SWAYAM) **(R193205D)**	iv) C++ Programming **(R193205H)** (Except CSE and IT)
						v) Operating Systems **(R193205I)** (Except CSE and IT)
						vi) Internet of Things **(R193205J)** (Except CSE and IT)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	11.04.2022 (Monday)	**12.04.2022 (Tuesday)**	**13.04.2022 (Wednesday)**	**16.04.2022 (Saturday)**	**18-04-2022 (Monday)**	**19-04-2022 (Tuesday)**
INFORMATION TECHNOLOGY (12 IT)	Web Technologies **(R1932051)** (Common to CSE,IT)	Data Warehousing and Data Mining **(R1932121)**	……	Managerial Economics and Financial Accountancy **(R1932054)** (Common to CSE,IT)	**Professional Elective (PE II) :-** i) Web Security **(R193212A)** ii) Software Project Management **(R193212B)** iii) Natural Language Processing **(R193212C)** iv) MOOCS (NPTEL/SWAYAM)**(R193212D)**	**Open Elective (OE I) :-** i) Data Structures **(R193205E)** (Except CSE and IT) ii) Java Programming **(R193205F)** (Except CSE and IT) iii) Database Management Systems **(R193205G)** (Except CSE and IT) iv) C++ Programming **(R193212E)** (Except CSE and IT) v) Operating Systems **(R193212F)** (Except CSE and IT) vi) Internet of Things **(R193212G)** (Except CSE and IT)
AUTO MOBILE ENGINEERING (24 AME)	Electrical Vehicles & Hybrid Technology **(R1932241)**	Heat Transfer **(R1932032)** (Common to ME,AME)	Automotive Chassis Design **(R1932242)**	Automotive Pollution and Control **(R1932243)**	…….	**OPEN ELECTIVE(offered to other** i) Basic Automobile Engineering **(R193224A)** ii) Automotive Maintenance and Safety **(R193224B)** iii) Automotive Emissions and Effects **(R193224C)**
MINING ENGINEERING (26 MM)	Mine Ground Control **(R1932261)**	Mineral processing **(R1932262)**	Under Ground Metal Mining Technology **(R1932263)**	Mining Machinery & Mechanization-II **(R1932264)**	…….	**Open Elective - II** i) Industrial Robotics **(R193226A)** ii) Artificial intelligence **(R193226B)** iii) Introduction to Data Base Management System **(R193226C)**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)	Petroleum Production Engineering **(R1932271)**	Petroleum Reservoir Engineering-II **(R1932272)**	Petroleum Refinery & Petrochemical **Engineering (R1932273)**	…….	**Professional Elective (PE II) :-** i) Offshore Engineering **(R193227A)** ii) Advanced Well Completion Engineering **(R193227B)** iii)Applied Mathematics in Reservoir Engineering**(R193227C)**	**OPEN ELECTIVE – II** i) Basic concepts in Petroleum Drilling and Completions **(R193227D)** ii) Basic concepts in Petroleum Production Engineering **(R193227E)** iii) Basic concepts in Petroleum Reservoir Engineering **(R193227F)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R19 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	11.04.2022 (Monday)	**12.04.2022 (Tuesday)**	**13.04.2022 (Wednesday)**	**16.04.2022 (Saturday)**	**18-04-2022 (Monday)**	**19-04-2022 (Tuesday)**
AGRICULTURAL ENGINEERING (35 AGE)	Irrigation and Drainage Engineering **(R1932351)**	Engineering Properties of Biological Materials **(R1932352)**	Farm Machinery Equipment - II **(R1932353)**	Dairy and Food Engineering **(R1932354)**	**Professional Elective - I**	**Open Elective - I**
					i) Seed Processing and Storage Engineering **(R193235A)**	i) Operations Research **(R193235D)**
					ii) Greenhouse Technology **(R193235B)**	ii) Robotics and Automation **(R193235E)**
					iii) Tractor Design and Testing **(R193235C)**	**iii)** Finite Element Method **(R193235F)**

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DATE: 30-03-2022

Controller of Examinations

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	04-01-2022 (Tuesday)	**05-01-2022 (Wednesday)**	**06-01-2022 (Thursday)**	**07-01-2022 (Friday)**	**08-01-2022 (Saturday)**
CIVIL ENGINEERING (01-CE)	Mathematics -III **R2021011** (Except EEE,FE)	Strength of Materials-I **R2021012**	Fluid Mechanics **R2021013**	Surveying and Geometrics **R2021014**	Highway Engineering **R2021015**
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Mathematics – IV **R2021021**	Electronic Devices and Circuits **R2021022**	Electrical Circuit Analysis –II **R2021023**	DC Machines and Transformers **R2021024**	Electro Magnetic Fields **R2021025**
MECHANICAL ENGINEERING (03-ME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Production Technology **R2021033**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Kinematics of Machinery **R2021034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Random Variables and Stochastic Processes **R2021044** (Common to ECE,ECT)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE, CST, CSE (AIML),AI,DS,CSE(AIDS),CSE (CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Object Oriented Programming through C++ **R2021051** (Common to CSE,IT)	Operating Systems **R2021052** (Common to CSE,CST, IT,CS,IOTCSBT,IOT,CS)	Software Engineering **R2021053**

COMPUTER SCIENE & TECHNOLOGY (06)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE (CS) CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT, CSE(CS),IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS), OITCSBT,IOT,CS)
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Electronic Measurements and Instrumentation **R2021101**
INFORMATION TECHNOLOGY (12-IT)	Mathematics -III **R2021011** (Except EEE,FE)	Discrete Mathematics and Graph Theory **R2021122**	Object Oriented Programming through C++ **R2021051** (Common to CSE, IT)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Database Management Systems **R2021121** (Common to IT,CSE(AIML), AI,DS,CSE(AIDS), AIDS,AIML)
ELECTRONICS & COMMUNICATION TECHNOLOGY (14)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems R2021043 (Common to ECE,EIE,ECT)	Random Variables and Stochastic Process **R2021044** (Common to ECE,ECT)
AUTO MOBILE ENGINEERING (24-AME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Thermodynamics **R2021241**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Components of Automobile Chassis **R2021242**
MINING ENGINEERING (26-MM)	Mathematics -III **R2021011** (Except EEE,FE)	Development of Mineral Deposits **R2021261**	Mine Surveying **R2021262**	Engineering and Economic Geology **R2021263**	Mineral Processing Technology **R2021264**
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics -III **R2021011** (Except EEE,FE)	Petroleum Geology **R2021271**	Fluid Mechanics for Petroleum Engineers **R2021272**	Heat Transfer Operations **R2021273**	Material and Energy Balances **R2021274**

AGRICULTURAL ENGINEERING (35-AGE)	Mathematics -III **R2021011** (Except EEE,FE)	Surveying and Leveling **R2021351**	Fluid Mechanics and Open Channel Hydraulics **R2021352**	Properties and Strength of Materials **R2021353**	Farm Power and Tractor Systems **R2021354**
CSE (Artificial Intelligence and Machine Learning) (42)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML), AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence) (43)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence **R2021431**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT, CSE(AIML), AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Data Science) (44)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Fundamentals of Data Science **R2021441**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence and Data Science) (45)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CS,IOTCSBT,CSBS,IOT,AIDS,AIML)	Introduction to Artificial Intelligence and Data Science **R2021451** (Comm to CSE(AIDS),AIDS)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML), AI,DS,CSE(AIDS), AIDS,AIML)
CSE (Cyber Security) (46)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS, OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)

CSE (Internet of things and Cyber security including Block chain Technology) (47)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE(AIML),AI,DS,CSE(AIDS), CSE(CS),IOTCSBT,CSBS,IOT, AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
CSE (Computer Science and Business System) (48)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CS,IOTCSBT,CSBS, IOT,AIDS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Formal Languages & Automata Theory **R2021481**	Computer Organization& Architecture **R2021482**
CSE (Internet of Things) (49)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT ,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
FOOD ENGINEERING (51)	Probability and Statistics **R2021511**	Principles of Food Engineering -I **R2021512**	Mechanical Operations in Food Processing **R2021513**	Fluid Mechanics in Food Processing **R2021514**	Food Microbiology **R2021515**
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Data Science **R2021451** (Comm to CSE(AIDS),AIDS)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
PHARMACEUTICAL ENGINEERING (55)	Mathematics – III **R2021011** (Except EEE,FE) (Vector Calculus, Transforms and PDE)	Pharmacology **R2021551**	Material and Energy Balance Computations **R2021552**	Fluid Mechanics and Mechanical Unit Operations **R2021553**	Thermodynamics for pharmaceutical Engineers **R2021554**

CYBER SECURITY (59)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT, CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CSE(CS),IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE (AIML),AI,DS,CSE(AIDS),CSE(CS), IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML),AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS ,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML) AI,DS,CSE(AIDS), AIDS,AIML)

NOTE:

(i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.

(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 31-12-2021

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	25-04-2022 (Monday)	**26-04-2022 (Tuesday)**	**27-04-2022 (Wednesday)**	**28-04-2022 (Thursday)**	**29-04-2022 (Friday)**
CIVIL ENGINEERING (01-CE)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Strength of Materials -II **R2022012**	Hydraulics and Hydraulic Machinery **R2022013**	Environmental Engineering **R2022014**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Python Programming **R2022021** (Common to EEE, FE)	Digital Electronics **R2022022**	Power System-I **R2022023**	Induction and Synchronous Machines **R2022024**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
MECHANICAL ENGINEERING (03-ME)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Material Science & Metallurgy **R2022031**	Dynamics of Machinery **R2022032**	Thermal Engineering-I **R2022033**	Industrial Engineering and Management **R2022034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Digital IC Design **R2022042**	Analog Communications **R2022043** (Common to ECE,ECT)	Linear Control Systems **R2022044** (Common to ECE,EIE)	Management and Organizational Behavior **R2022045** (Common to ECE, PE)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

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II B.TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	25-04-2022 (Monday)	**26-04-2022 (Tuesday)**	**27-04-2022 (Wednesday)**	**28-04-2022 (Thursday)**	**29-04-2022 (Friday)**
COMPUTER SCIENE & TECHNOLOGY (06)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Microprocessor and Microcontrollers **R2022101**	Integrated Circuits and applications **R2022102**	Linear Control Systems **R2022044** (Common to ECE,EIE)	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
INFORMATION TECHNOLOGY (12-IT)	Statistics with R **R2022121**	Principles of Software Engineering **R2022122**	Automata Theory and Compiler Design **R2022123**	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ELECTRONICS & COMMUNICATION TECHNOLOGY (14)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Computer Architecture and Organization **R2022141**	Analog Communications **R2022043** (Common to ECE,ECT)	Electromagnetic Waves and Transmission Lines **R2022142**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
AUTO MOBILE ENGINEERING (24-AME)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Applied Thermodynamics **R2022241**	Automobile Engines **R2022242**	Automobile Electrical and Electronics **R2022243**	Operations Research **R2022244**

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TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
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MINING ENGINEERING (26-MM)	Complex Variables and Statistical Methods **R2022261**	Fluid Mechanics and Hydraulic Power **R2022261**	Rock Mechanics **R2022262**	Mine Ventilation **R2022263**	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics –IV **R2022271**	Instrumentation, Process Dynamics & Control **R2022272**	Thermodynamics for Petroleum Engineers **R2022273**	Drilling & Well Completions **R2022274**	Management and Organizational Behavior **R2022045** (Common to ECE, PE)
AGRICULTURAL ENGINEERING (35-AGE)	Heat and Mass Transfer **R2022351**	Ground Water Hydrology, Well and Pumps **R2022352**	Theory of Structures **R2022353**	Soil Mechanics **R2022354**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
CSE (Artificial Intelligence and Machine Learning) (42)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Artificial Intelligence) (43)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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II B.TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	25-04-2022 (Monday)	**26-04-2022 (Tuesday)**	**27-04-2022 (Wednesday)**	**28-04-2022 (Thursday)**	**29-04-2022 (Friday)**
CSE (Data Science) (44)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Artificial Intelligence and Data Science) (45)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Cyber Security) (46)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	25-04-2022 (Monday)	**26-04-2022 (Tuesday)**	**27-04-2022 (Wednesday)**	**28-04-2022 (Thursday)**	**29-04-2022 (Friday)**
CSE (Internet of things and Cyber security including Block chain Technology) (47)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Computer Science and Business System) (48)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Operating Systems **R2022481** (Common to CSE(CSBS), CS)	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Fundamentals of Economics **R2022482**
CSE (Internet of Things) (49)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
FOOD ENGINEERING (51)	Python Programming **R2022021** (Common to EEE, FE)	Principles of Food Engineering - II **R2022511**	Food Chemistry **R2022512**	Processing of Cereals, Pulses and Oilseeds **R2022513**	Managerial Economics & Financial Analysis **R2022015** (Common to CE,EEE,EIE,ECT,AGE,FE)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	25-04-2022 (Monday)	**26-04-2022 (Tuesday)**	**27-04-2022 (Wednesday)**	**28-04-2022 (Thursday)**	**29-04-2022 (Friday)**
PHARMACEUTICAL ENGINEERING (55)	Heat Transfer for Pharmaceutical Engineers **R2022551**	Physical Pharmaceutics **R2022552**	Principles of Microbiology and Biochemistry **R2022553**	Reaction Engineering for Pharmaceutical Engineers **R2022554**	Anatomy and Physiology **R2022555**
CYBER SECURITY (59)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

NOTE:

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(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 11-04-2022

Controller of Examinations

I B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH I SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, MARCH - 2022

R E V I S E D T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

Branch	14-03-2022 (Monday)	15-03-2022 (Tuesday)	16-03-2022 (Wednesday)	17-03-2022 (Thursday)	19-03-2022 (Saturday)	21-03-2022 (Monday)
Subjects	Communicative English **R201102**	Mathematics-I **R201101**	Programming for Problem Solving Using C **R201110** (Except CE) Engineering Geology **R201105** (Only for CE)	Engineering Drawing **R201104** (Comm to CE,ME,ECE,PE,EIE,FE) Engineering Drawing & Design **R201111** (Only for EEE) Principles of Soil Science and Agronomy **R201127** (Only for Agri E) Design Drawing and Visualization **R201135** (Only for CSD)	Applied Physics **R201117** (Comm to CSE, CSE-CS&T, IT , CSE-CS, CSE-IOT&CS incl BCT, CSE-CS&BS, CSE-IOT) Engineering Mechanics **R201124** (Com. to AME, Min E) Fundamental Chemistry **R201130** (Only for FE) Engineering Chemistry **R201134** (Only for Phar. E)	Mathematics-II **R201109** (Only for EEE) Engineering Physics **R201103** (Com. to CE,ME,Agri E, Phar. E) Engineering Chemistry **R201123** (Com. to AME, Min E, PE) Applied Chemistry **R201115** (Comm to ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AIDS, CSD)

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DATE: 11-03-2022

Controller of Examinations

I B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH I SEMESTER (R20 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, MARCH - 2022

R E V I S E D T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

Branch	23-03-2022 (Wednesday)	24-03-2022 (Thursday)	25-03-2022 (Friday)	26-03-2022 (Saturday)	28-03-2022 (Monday)	29-03-2022 (Tuesday)
Subjects	Communicative English **R201102**	Mathematics-I **R201101**	Programming for Problem Solving Using C **R201110** (Except CE) Engineering Geology **R201105** (Only for CE)	Engineering Drawing **R201104** (Comm to CE,ME,ECE,PE,EIE,FE) Engineering Drawing & Design **R201111** (Only for EEE) Principles of Soil Science and Agronomy **R201127** (Only for Agri E) Design Drawing and Visualization **R201135** (Only for CSD)	Applied Physics **R201117** (Comm to CSE, CSE-CS&T, IT , CSE-CS, CSE-IOT&CS incl BCT, CSE-CS&BS, CSE-IOT) Engineering Mechanics **R201124** (Com. to AME, Min E) Fundamental Chemistry **R201130** (Only for FE) Engineering Chemistry **R201134** (Only for Phar. E)	Mathematics-II **R201109** (Only for EEE) Engineering Physics **R201103** (Com. to CE,ME,Agri E, Phar. E) Engineering Chemistry **R201123** (Com. to AME, Min E, PE) Applied Chemistry **R201115** (Comm to ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AIDS, CSD)

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DATE: 11-03-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH II SEMESTER (R20 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, JUNE - 2022

REVISED TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

Branch	06-06-2022 (Monday)	07-06-2022 (Tuesday)	08-06-2022 (Wednesday)	09-06-2022 (Thursday)	10-06-2022 (Friday)	11-06-2022 (Saturday)
Subjects	Mathematics – II **R201201**	Building Materials and Concrete Technology **R201205** (Only for CE) Applied Physics **R201207** (Comm to EEE, ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DC) Basic Electrical and Electronics Engineering **R201211** (Comm to ME,AME, Mining,PE,FE,Pharm. E)	Programming for Problem Solving Using C **R201204** (Comm to CE, Agri E) Data Structures Through C **R201208** (Only for EEE) Basic Electrical Engineering **R201214** (Comm to ECE, EIE, ECT) Computer Organization **R201216** (Comm to CSE,IT) Digital Logic Design **R201221** (Comm to CSE-CS&T, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, CSE-CS, CSE-IOT&CS INCL BCT, CSE-CS&BS,CSE-IOT, AI&DS, Cyber Security) Engineering Physics **R201222** (Comm. to AME, Mining, PE,FE)	Data Structures **R201218** (Comm to CSE, IT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Problem Solving Using Python **R201219** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Pharmaceutical Chemistry **R201258** (Only for Pharm. E) Electrical Circuit Analysis –I **R201209** (Only for EEE) Engineering Mechanics **R201210** (Comm to ME, PE, Agri E, FE) Mechanics of Solids **R201255** (Only for Mining) Metallurgy & Materials Science **R201256** (Only for AME)	Engineering Mechanics **R201203** (Only for CE) Thermodynamics **R201254** (Only for ME) Basic Civil and Mechanical Engineering **R201227** (Only for EEE) Computer Aided Engineering Drawing **R201226** (Only for FE) Engineering Drawing **R201224** (Comm to Mining, Agri.E, Phar.E) Object Oriented Programming through Java **R201212** (Comm to ECE,EIE, ECT) Basic Electrical & Electronics Engineering **R201220** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Engineering Graphics **R201257** (Only for AME) Python Programming **R201225** (Comm to CSE, IT ,CSE-AI&ML,CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Elements of Mechanical Engineering **R201223** (Only for PE)	Mathematics-III **R201206** (Only for EEE) Engineering Chemistry **R201202** (Comm. to CE,ME ,Agri.E) Applied Chemistry **R201215** (Comm to CSE, CSE-CS&T, IT, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Network Analysis **R201213** (Comm to ECE,EIE, ECT) Engineering and Solid Mechanics **R201259** (Only for Pharm. E)

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DATE: 28-05-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	18-01-2022 (Tuesday)	19-01-2022 (Wednesday)	20-01-2022 (Thursday)	21-01-2022 (Friday)	22-01-2022 (Saturday)	24-01-2022 (Monday)
Civil Engineering (01)	Environmental Engineering – II (R1641011)	Water Resource Engineering - II (R1641012)	Geotechnical Engineering - II (R1641013)	Remote sensing and GIS Applications (R1641014)	**Elective-I**: Finite Element Methods (R164101A)/Ground Improve Techniques (R164101B)/Air Polluation and Control (R164101C)/Urbon Hydrology (R164101D)/Traffic Engineering (R164101E)	**Elective-II**: Advanced Structural Engineering (R164101F)/Advanced Foundation Engineering (R164101G)/Environmental Impact Assessment & Management (R164101H)/Ground Water Development (R164101I)/Pavement Analysis and Design (R164101J)
Electrical & Electronics Engineering (02)	Utilization of Electrical Energy (R1641021)	Linear IC Application (R1641022)	Power Systems Operation & Control (R1641023)	Switch Gear and Protection (R1641024)	**Elective-I**: Electrical Machine Modeling Analysis (R164102A)/Advanced Control Systems (R164102B)/Programmable Logic Control & Applications (R164102C)/Instrumentation (R164102D)	**Elective-II**: Optimization Techniques (R164102E)/Electric Power Quality (R164102F)/Special Electrical Machines (R164102G)
Mechanical Engineering (03)	Mechatronics (R1641031)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Power Plant Engineering (R1641034)	**Elective-I**: Computational Fluid Dynamics (Common to ME , AME & AE) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)/Additive Manufacturing (R164103C)	**Elective-II**: Advanced Materials (R164103D)/Design for Manufacture (R164103E)/Gas Dynamics & Jet Propulsion (R164103F)
Electronics & Communication Engineering (04)	Radar Systems (R1641041)	Digital Image Processing(Common to ECE & EIE & E.COMP.E) (R1641042)	Computer Networks(Common to ECE & EIE) (R1641043)	Optical Communications (R1641044)	**Elective-I**: TV Engineering (R164104A)/Electronic Switching Systems (R164104B)/System Design through Verilog (R164104C)	**Elective-II**: Embedded Systems (R164104D)/Analog IC Design(Common to ECE & EIE) (R164104E)/Network Security & Cryptography (R164104F) (Only for ECE)
Computer Science & Engineering (05)	Cryptography and Network Security (Common to CSE , IT & ECE) (R1641051)	Software Architecture & Deisgn Patterns (R1641052)	Web Technologies (R1641053)	Managerial Economics and Financial Analysis (Common to CSE & IT)	**Elective-I**: Big Data Analytics (Common to CSE & IT) (R164105A)/Information Retrieval Systems (Common to CSE & IT) (R164105B)/ Mobile Computing (Common to CSE & IT) (R164105C)	**Elective-II**: Cloud Computing (Common to CSE & IT) (R164105D)/Software Project Management (Common to CSE & IT) (R164105E)/Scripting Languages (R164105F)
Electronics & Instrumentation Engineering (10)	Data Acquisition Systems (R1641101)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Computer Networks(Common to ECE & EIE) (R1641043)	Management Science (R1641102)	**Elective II**: Mixed Signal Design (R164110C)/Robotics & Automation (R164110D)/EMI/EMC (R164110E)	**Elective I**: Quality and Reliability Engineering Systems (QRES) (R164110A)/Analog IC Design(Common to ECE & EIE) (R164104E)/Digital Control Systems (R164110B)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	18-01-2022 (Tuesday)	19-01-2022 (Wednesday)	20-01-2022 (Thursday)	21-01-2022 (Friday)	22-01-2022 (Saturday)	24-01-2022 (Monday)
Information Technology (12)	Cryptography and Network Security (Common to CSE & IT) (R1641051)	Mobile Computing (Common to CSE & IT) (R164105C)	Data Ware Housing and Business Intelligence (R1641121)	Managerial Economics and Financial Analysis(Common to CSE & IT) (R1641054)	**Elective I:** Big Data Analystics (Common to CSE & IT) (R164105A)/Information Retrieval Systems(Common to CSE & IT) (R164105B)/Internet of Things(R164112A) /Multimedia Programming (R164112B)	**Elective II**: Cloud Computing(Common to CSE & IT) (R164105D)/Software Project Management(Common to CSE & IT) (R164105E)/Machine Learning (R164112C)/Decision Support System (R164112D)
Electronics & Computer Engineering (19)	Systems Programming (R1641191)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Digital Signal Processing (R1641192)	UNIX Programming (R1641193)	**Elective I**: Artificial Intelligence (R164119A)/Advanced Computer Architecture (R164119B)/Data Communication (R164119C)	**Elective II**: Web Design (R164119D)/Fuzzy Logic and Neural Networks (R164119E)/Structured Digital Design (R164119F)
Aeronoltical Engineering (21)	Theory of Vibrations (R1641211)	**Elective I**: Airframe Repair and Maintenance (R164121A)/Boundary Layer Theory (R164121B)/Fatigue and Fracture Mechanics (R164121C)	Instrumentation Measurements and Experiments in Fluids (R1641212)	Helicopter Engineering (R1641213)	Compuatational Fluid Dynamics(Common to ME, AME & Aeronautical) R164103A	**Elective II**: Elements of Combustion (R164121D)/Quality and Reliabilty Engineering (R164110A)/Hypersonic Aerodynamics (R164121E)
Automobile Engineering (24)	Automotive Chasis and Suspension (R1641241)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Vehicle Dynamics (R1641242)	**Elective II**: Micro Processors & Micro Controllers (R164124D)/Computational Fluid Dynamics(Common to ME, AME & Aeronautical) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)	**Elective I**: Vehicle Body Engg. & Safety (R164124A)/Industrial Robotics (R164124B)/Automotive Aerodynamics (R164124C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	18-01-2022 (Tuesday)	19-01-2022 (Wednesday)	20-01-2022 (Thursday)	21-01-2022 (Friday)	22-01-2022 (Saturday)	24-01-2022 (Monday)
Mining Engineering (26)	Computer Applications in Mining (R1641261)	Underground Metal Mining Technology (R1641262)	Rock Mechanics & Ground Control (R1641263)	Mine Legislation & General Safety (R1641264)	**Elective I**: Rock Slope Engineering (R164126A)/Mine Subsidence Engineering (R164126B)/Rock Fragmentation Engineering (R164126C)	**Elective II**: Deep Sea Mining (R164126D)/Mine Construction Engineering (R164126E)/Tunneling Engineering (R164126F)
Petroleum Engineering (27)	Integrated Asset Management (R1641271)	Petroleum Reservoir Engineering-II (R1641272)	Surface Production Operations (R1641273)	Oil & Gas Processing Plant Design (R1641274)	**Elective I**: Natural Gas Hydrates (R164127A)/Pipeline Engineering (R164127B)/Horizontal Well Technology (R164127C)	**Elective II**: Coal Bed Methane Engineering (R164127D)/Offshore Engineering (R164127E)/Reservoir Stimulation (R164127F)
Agricultural Engineering (35)	Micro Irrigation Engineering (R1641351)	Farm Machinery and Equipments-II (R1641352)	Post Harvest Engineering for Horticulture Produce (R1641353)	Mechanical Measurements and Instrumentation (R1641354)	**Elective I** :Seed Processing and Storage Engineering (R164135A)/Green House Technologies (R164135B)/Food Processing Plant Design and Layout (R164135C)	**Elective II**: Watershed Management (R164135D)/Food Packaging Technology (R164135E)/Minor Irrigation and Command area development (R164135F)

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Controller of Examinations

DATE: 31-12-2021

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

REVISED TIME TABLE

TIME : 10.00 AM TO 12.00 NOON

Branch	22-11-2021 (Monday)	23-11-2021 (Tuesday)	24-11-2021 (Wednesday)	25-11-2021 (Thursday)	26-11-2021 (Friday)	27-11-2021 (Saturday)
Civil Engineering (01)	Environmental Engineering – II (R1641011)	Water Resource Engineering - II (R1641012)	Geotechnical Engineering - II (R1641013)	Remote sensing and GIS Applications (R1641014)	**Elective-I**: Finite Element Methods (R164101A)/Ground Improve Techniques (R164101B)/Air Polluation and Control (R164101C)/Urbon Hydrology (R164101D)/Traffic Engineering (R164101E)	**Elective-II**: Advanced Structural Engineering (R164101F)/Advanced Foundation Engineering (R164101G)/Environmental Impact Assessment & Management (R164101H)/Ground Water Development (R164101I)/Pavement Analysis and Design (R164101J)
Electrical & Electronics Engineering (02)	Utilization of Electrical Energy (R1641021)	Linear IC Application (R1641022)	Power Systems Operation & Control (R1641023)	Switch Gear and Protection (R1641024)	**Elective-I**: Electrical Machine Modeling Analysis (R164102A)/Advanced Control Systems (R164102B)/Programmable Logic Control & Applications (R164102C)/Instrumentation (R164102D)	**Elective-II**: Optimization Techniques (R164102E)/Electric Power Quality (R164102F)/Special Electrical Machines (R164102G)
Mechanical Engineering (03)	Mechatronics (R1641031)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Power Plant Engineering (R1641034)	**Elective-I**: Computational Fluid Dynamics (Common to ME , AME & AE) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)/Additive Manufacturing (R164103C)	**Elective-II**: Advanced Materials (R164103D)/Design for Manufacture (R164103E)/Gas Dynamics & Jet Propulsion (R164103F)
Electronics & Communication Engineering (04)	Radar Systems (R1641041)	Digital Image Processing(Common to ECE & EIE & E.COMP.E) (R1641042)	Computer Networks(Common to ECE & EIE) (R1641043)	Optical Communications (R1641044)	**Elective-I**: TV Engineering (R164104A)/Electronic Switching Systems (R164104B)/System Design through Verilog (R164104C)	**Elective-II**: Embedded Systems (R164104D)/Analog IC Design(Common to ECE & EIE) (R164104E)/Network Security & Cryptography (R164104F) (Only for ECE)
Computer Science & Engineering (05)	Cryptography and Network Security (Common to CSE , IT & ECE) (R1641051)	Software Architecture & Deisgn Patterns (R1641052)	Web Technologies (R1641053)	Managerial Economics and Financial Analysis (Common to CSE & IT) (R1641054)	**Elective-I**: Big Data Analytics (Common to CSE & IT) (R164105A)/Information Retrieval Systems (Common to CSE & IT) (R164105B)/ Mobile Computing (Common to CSE & IT) (R164105C)	**Elective-II**: Cloud Computing (Common to CSE & IT) (R164105D)/Software Project Management (Common to CSE & IT) (R164105E)/Scripting Languages (R164105F)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

REVISED TIME TABLE

TIME : 10.00 AM TO 12.00 NOON

Branch	22-11-2021 (Monday)	23-11-2021 (Tuesday)	24-11-2021 (Wednesday)	25-11-2021 (Thursday)	26-11-2021 (Friday)	27-11-2021 (Saturday)
Electronics & Instrumentation Engineering (10)	Data Acquisition Systems (R1641101)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Computer Networks(Common to ECE & EIE) (R1641043)	Management Science (R1641102)	**Elective II**: Mixed Signal Design (R164110C)/Robotics & Automation (R164110D)/EMI/EMC (R164110E)	**Elective I**: Quality and Reliability Engineering Systems (QRES) (R164110A)/Analog IC Design(Common to ECE & EIE) (R164104E)/Digital Control Systems (R164110B)
Information Technology (12)	Cryptography and Network Security (Common to CSE & IT) (R1641051)	Mobile Computing (Common to CSE & IT) (R164105C)	Data Ware Housing and Business Intelligence (R1641121)	Managerial Economics and Financial Analysis(Common to CSE & IT) (R1641054)	**Elective I:** Big Data Analystics (Common to CSE & IT) (R164105A)/Information Retrieval Systems(Common to CSE & IT) (R164105B)/Internet of Things(R164112A) /Multimedia Programming (R164112B)	**Elective II**: Cloud Computing(Common to CSE & IT) (R164105D)/Software Project Management(Common to CSE & IT) (R164105E)/Machine Learning (R164112C)/Decision Support System (R164112D)
Electronics & Computer Engineering (19)	Systems Programming (R1641191)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Digital Signal Processing (R1641192)	UNIX Programming (R1641193)	**Elective I**: Artificial Intelligence (R164119A)/Advanced Computer Architecture (R164119B)/Data Communication (R164119C)	**Elective II**: Web Design (R164119D)/Fuzzy Logic and Neural Networks (R164119E)/Structured Digital Design (R164119F)
Aeronoltical Engineering (21)	Theory of Vibrations (R1641211)	**Elective I**: Airframe Repair and Maintenance (R164121A)/Boundary Layer Theory (R164121B)/Fatigue and Fracture Mechanics (R164121C)	Instrumentation Measurements and Experiments in Fluids (R1641212)	Helicopter Engineering (R1641213)	Compuatational Fluid Dynamics(Common to ME, AME & Aeronautical) R164103A	**Elective II**: Elements of Combustion (R164121D)/Quality and Reliabilty Engineering (R164110A)/Hypersonic Aerodynamics (R164121E)
Automobile Engineering (24)	Automotive Chasis and Suspension (R1641241)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Vehicle Dynamics (R1641242)	**Elective II**: Micro Processors & Micro Controllers (R164124D)/Computational Fluid Dynamics(Common to ME, AME & Aeronautical) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)	**Elective I**: Vehicle Body Engg. & Safety (R164124A)/Industrial Robotics (R164124B)/Automotive Aerodynamics (R164124C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2021

REVISED TIME TABLE

TIME : 10.00 AM TO 12.00 NOON

Branch	22-11-2021 (Monday)	23-11-2021 (Tuesday)	24-11-2021 (Wednesday)	25-11-2021 (Thursday)	26-11-2021 (Friday)	27-11-2021 (Saturday)
Mining Engineering (26)	Computer Applications in Mining (R1641261)	Underground Metal Mining Technology (R1641262)	Rock Mechanics & Ground Control (R1641263)	Mine Legislation & General Safety (R1641264)	**Elective I**: Rock Slope Engineering (R164126A)/Mine Subsidence Engineering (R164126B)/Rock Fragmentation Engineering (R164126C)	**Elective II**: Deep Sea Mining (R164126D)/Mine Construction Engineering (R164126E)/Tunneling Engineering (R164126F)
Petroleum Engineering (27)	Integrated Asset Management (R1641271)	Petroleum Reservoir Engineering-II (R1641272)	Surface Production Operations (R1641273)	Oil & Gas Processing Plant Design (R1641274)	**Elective I**: Natural Gas Hydrates (R164127A)/Pipeline Engineering (R164127B)/Horizontal Well Technology (R164127C)	**Elective II**: Coal Bed Methane Engineering (R164127D)/Offshore Engineering (R164127E)/Reservoir Stimulation (R164127F)
Agricultural Engineering (35)	Micro Irrigation Engineering (R1641351)	Farm Machinery and Equipments-II (R1641352)	Post Harvest Engineering for Horticulture Produce (R1641353)	Mechanical Measurements and Instrumentation (R1641354)	**Elective I** :Seed Processing and Storage Engineering (R164135A)/Green House Technologies (R164135B)/Food Processing Plant Design and Layout (R164135C)	**Elective II**: Watershed Management (R164135D)/Food Packaging Technology (R164135E)/Minor Irrigation and Command area development (R164135F)

NOTE:

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Controller of Examinations

DATE: 08-11-2021

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	30.05.2022 (Monday)	31.05.2022 (Tuesday)	01.06.2022 (Wednesday)	02.06.2022 (Thursday)
Civil Engineering (01)	Estimation Specificatin & Contracts (R1642011)	Construction Technology & Management (R1642012)	Prestressed Concrete (R1642013)	**Elective-III**: Bridge Engineering (R164201A)/Soil Dynamics and Foundations (R164201B)/Solid and Hazards waste management (R164201C)/Water Resource System Planning (R164201D)/UrbanTransportation Planning Engineering (R164201E)
Electrical & Electronics Engineering (02)	Digital Control Systems (R1642021)	HVDC Transmission (R1642022)	Electrical Distribution Systems (R1642023)	**Elective-III**: High Voltage Engineering (R164202A)/Flexible Alternating Current Transmissin Systems (R164202B)/Power Systems Reforms (R164202C)
Mechanical Engineering (03)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Unconventional Machining Processes (R1642032)	Automobile Engineering (R1642033)	**Elective-III**: Thermal Equipment Design (R164203A)/Non Destructive Evaluation (R164203B)/Quality and Reliability Engineering (R164203C)
Electronics & Communication Engineering (04)	Cellular Mobile Communications (R1642041)	Electronic Measurements and Instrumentation (R1642042)	Satellite Communications (R1642043)	**Elective-III**: Digital IC Design(Common to ECE & E.I.E) (R164204B)/Operating Systems (R164204C)/Wireless Sensors & Networks(R164204A)
Computer Science & Engineering (05)	Distributed Systems (Common to CSE, IT) (R1642051)	Management Science (Common to CSE, IT) (R1642052)	Machine Learning (R1642053)	**Elective-III**: Operation Research (R164205C)/Artificial Neural Networks(Common to CSE, IT) (R164205B)/Concurrent and Parallel Programming(Common to CSE, IT) (R164205A)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	30.05.2022 (Monday)	31.05.2022 (Tuesday)	01.06.2022 (Wednesday)	02.06.2022 (Thursday)
Electronics & Instrumentation Engineering (10)	Industrial Automation (R1642101)	Data Communications (R1642102)	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Digital IC Design (Common to ECE & E.I.E) (R164204B)/Calibration & Standards (R164210A)/Micro Electro Mechanical Systems (MEMS) (R164210B)
Information Technology (12)	Distributed Systems(Common to CSE, IT) (R1642051)	Management Science(Common to CSE, IT) (R1642052)	Management Information System (R1642121)	**Elective III**: Cyber Security (R164212A)/Software Quality Assurance (R164212B)/Concurrent and Parallel Programming (Common to CSE, IT) (R164205A)/Artificial Neural Networks(Common to CSE, IT)(R164205B)
Electronics & Computer Engineering (19)	Automata Theory & Compiler Design (R1642191)	**Elective IV** : Real Time Operating Systems (R164219D)/Network Security & Cryptography (R164219E)	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Language Processors (R164219A)/EMI/EMC (R164219B)/Data Ware Housing & Data Mining (R164219C)
Aeronoltical Engineering (21)	Rockery and Space Mechanics (R1642211)	Mechanics of Composites (R1642212)	Aerospace Materials (R1642213)	**Elective III**: Avionics (R164221A)/Propellant Technology (R164221B)/Aero Elasticity (R164221C)
Automobile Engineering (24)	Automotive Control Systems (R1642241)	Vehicle Maintenance (R1642242)	Product Design and Assembly Automation (R1642243)	**Elective III**: Automotive Safety (R164224A)/Automotive Manufacturing Systems (R164224B)/Automobile Air Conditioning (R164224C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) II MID & ONLINE QUIZ EXAMINATIONS, MAY/JUNE - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	30.05.2022 (Monday)	31.05.2022 (Tuesday)	01.06.2022 (Wednesday)	02.06.2022 (Thursday)
Mining Engineering (26)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Mine Economics & Investment (R1642261)	Mine Health and Safety Engineering (R1642262)	**Elective III**: Planning of Underground Metal Mining Projects (R164226A)/Planning of Underground Coal Mining Projects (R164226B)/Planning of Surface Mining Projects (R164226C)
Petroleum Engineering (27)	EOR Techniques (R1642271)	HSE & FE in Petroleum Industry (R1642272)	Petroleum Economics, Policies & Regulations (R1642273)	**Elective III** : Shale Gas Reservoir Engineering (R164227A)/Subsea Engineering (R164227B)/Reservoir Modelling & Simulation (R164227C)
Agricultural Engineering (35)	Design of Agricultural Machinery (R1642351)	Agricultural Extension Techniques and Business Managemet (R1642352)	Agro Industries and Bi-product Utilization (R1642353)	**Elective III** :GIS and Remote Sensing (R164235A)/Human Engineering and safety (R164235B)/Production Technology of Agricultural Machinery (R164235C)

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DATE: 23-05-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	11.04.2022 (Monday)	12.04.2022 (Tuesday)	13.04.2022 (Wednesday)	16.04.2022 (Saturday)
Civil Engineering (01)	Estimation Specificatin & Contracts (R1642011)	Construction Technology & Management (R1642012)	Prestressed Concrete (R1642013)	**Elective-III**: Bridge Engineering (R164201A)/Soil Dynamics and Foundations (R164201B)/Solid and Hazards waste management (R164201C)/Water Resource System Planning (R164201D)/UrbanTransportation Planning Engineering (R164201E)
Electrical & Electronics Engineering (02)	Digital Control Systems (R1642021)	HVDC Transmission (R1642022)	Electrical Distribution Systems (R1642023)	**Elective-III**: High Voltage Engineering (R164202A)/Flexible Alternating Current Transmissin Systems (R164202B)/Power Systems Reforms (R164202C)
Mechanical Engineering (03)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Unconventional Machining Processes (R1642032)	Automobile Engineering (R1642033)	**Elective-III**: Thermal Equipment Design (R164203A)/Non Destructive Evaluation (R164203B)/Quality and Reliability Engineering (R164203C)
Electronics & Communication Engineering (04)	Cellular Mobile Communications (R1642041)	Electronic Measurements and Instrumentation (R1642042)	Satellite Communications (R1642043)	**Elective-III**: Digital IC Design(Common to ECE & E.I.E) (R164204B)/Operating Systems (R164204C)/Wireless Sensors & Networks(R164204A)
Computer Science & Engineering (05)	Distributed Systems (Common to CSE, IT) (R1642051)	Management Science (Common to CSE, IT) (R1642052)	Machine Learning (R1642053)	**Elective-III**: Operation Research (R164205C)/Artificial Neural Networks(Common to CSE, IT) (R164205B)/Concurrent and Parallel Programming(Common to CSE, IT) (R164205A)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	11.04.2022 (Monday)	12.04.2022 (Tuesday)	13.04.2022 (Wednesday)	16.04.2022 (Saturday)
Electronics & Instrumentation Engineering (10)	Industrial Automation (R1642101)	Data Communications (R1642102)	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Digital IC Design (Common to ECE & E.I.E) (R164204B)/Calibration & Standards (R164210A)/Micro Electro Mechanical Systems (MEMS) (R164210B)
Information Technology (12)	Distributed Systems(Common to CSE, IT) (R1642051)	Management Science(Common to CSE, IT) (R1642052)	Management Information System (R1642121)	**Elective III**: Cyber Security (R164212A)/Software Quality Assurance (R164212B)/Concurrent and Parallel Programming (Common to CSE, IT) (R164205A)/Artificial Neural Networks(Common to CSE, IT)(R164205B)
Electronics & Computer Engineering (19)	Automata Theory & Compiler Design (R1642191)	**Elective IV** : Real Time Operating Systems (R164219D)/Network Security & Cryptography (R164219E)	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Language Processors (R164219A)/EMI/EMC (R164219B)/Data Ware Housing & Data Mining (R164219C)
Aeronoltical Engineering (21)	Rockery and Space Mechanics (R1642211)	Mechanics of Composites (R1642212)	Aerospace Materials (R1642213)	**Elective III**: Avionics (R164221A)/Propellant Technology (R164221B)/Aero Elasticity (R164221C)
Automobile Engineering (24)	Automotive Control Systems (R1642241)	Vehicle Maintenance (R1642242)	Product Design and Assembly Automation (R1642243)	**Elective III**: Automotive Safety (R164224A)/Automotive Manufacturing Systems (R164224B)/Automobile Air Conditioning (R164224C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH II SEMESTER (R16) I MID & ONLINE QUIZ EXAMINATIONS, APRIL - 2022

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	11.04.2022 (Monday)	12.04.2022 (Tuesday)	13.04.2022 (Wednesday)	16.04.2022 (Saturday)
Mining Engineering (26)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Mine Economics & Investment (R1642261)	Mine Health and Safety Engineering (R1642262)	**Elective III**: Planning of Underground Metal Mining Projects (R164226A)/Planning of Underground Coal Mining Projects (R164226B)/Planning of Surface Mining Projects (R164226C)
Petroleum Engineering (27)	EOR Techniques (R1642271)	HSE & FE in Petroleum Industry (R1642272)	Petroleum Economics, Policies & Regulations (R1642273)	**Elective III** : Shale Gas Reservoir Engineering (R164227A)/Subsea Engineering (R164227B)/Reservoir Modelling & Simulation (R164227C)
Agricultural Engineering (35)	Design of Agricultural Machinery (R1642351)	Agricultural Extension Techniques and Business Managemet (R1642352)	Agro Industries and Bi-product Utilization (R1642353)	**Elective III** :GIS and Remote Sensing (R164235A)/Human Engineering and safety (R164235B)/Production Technology of Agricultural Machinery (R164235C)

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DATE: 30-03-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 PM

BRANCH	DATE & DAY					
	18-01-2022 (Tuesday)	**19-01-2022 (Wednesday)**	**20-01-2022 (Thursday)**	**21-01-2022 (Friday)**	**22-01-2022 (Saturday)**	**24-01-2022 (Monday)**
CIVIL ENGINEERING (01 CE)	Structural Analysis **(R1931011)**	Concrete Technology **(R1931012)**	Water Resources Engineering - I **(R1931013)**	Environmental Engineering - II **(R1931014)**	**Program Elective – I :-**	**Open Elective – I (Choose any One**
					i) Repair & Rehabilitation of Buildings **(R193101A)**	i) Disaster Management **(R193101F)**
					ii) Environmental Impact Assessment **(R193101B)**	ii) Environmental Pollution & Control **(R193101G)**
					iii) Reinforced Soil Structures **(R193101C)**	iii) Elements of Civil Engineering **(R193101H)**
					iv) Traffic Engineering **(R193101D)**	iv) Green Technology **(R193101I)**
					v) Construction Technology & Management **(R193101E)**	v) Smart Cities **(R193101J)**
						vi) Project Management **(R193101K)**
						vii) Traffic Safety **(R193101L)**
						viii) Geo-Spatial Technologies **(R193101M)**
						ix) Wastewater Treatment **(R193101N)**
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Power Systems-II **(R1931021)**	Power Electronics **(R1931022)**	Linear IC Applications **(R1931023)**	Digital Signal Processing **(R1931024)**	Microprocessors and Microcontrollers **(R1931025)**	……
MECHANICAL ENGINEERING (03 ME)	Dynamics of Machinery **(R1931031)**	Design of Machine Members-II **(R1931032)**	Mechanical Measurements & Metrology **(R1931033)**	Managerial Economics and Financial Accountancy **(R1931034)**	IC Engines & Gas turbines (R1931035)	……

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 PM

BRANCH	DATE & DAY					
	18-01-2022 (Tuesday)	**19-01-2022 (Wednesday)**	**20-01-2022 (Thursday)**	**21-01-2022 (Friday)**	**22-01-2022 (Saturday)**	**24-01-2022 (Monday)**
ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Linear Integrated Circuits and Applications **(R1931041)**	Microprocessor and Microcontrollers **(R1931042)**	Digital Communications **(R1931043)**	Electronic Measurements & Instrumentation **(R1931044)**	……	**Professional Elective (PE 1) :-** i) Information Theory & Coding **(R193104A)** ii) Digital System Design Using HDL **(R193104B)** iii) Datastructures and Algorithms **(R193104C)** iv) Soft Computing Techniques and Python Programming **(R193104D)** v) Simulation & Mathematical Modeling **(R193104E)**
COMPUTER SCIENE & ENGINEERING (05 CSE)	Data Warehousing and Data Mining **(R1931051)**	Computer Networks **(R1931052)**	Compiler Design **(R1931053)**	Artificial Intelligence **(R1931054)**	……	**Professional Elective- I:-** i) Computer Graphics **(R193105A)** ii) Principles of Programming Languages **(R193105B)** iii) Advanced Data Structures **(R193105C)** iv) Software Testing Methodologies **(R193105D)** v) Advanced Computer Architecture **(R193105E)**
INFORMATION TECHNOLOGY (12 IT)	Advanced Data Structures **(R1931121)**	Computer Networks **(R1931122)**	Compiler Design **(R1931123)**	Artificial Intelligence **(R1931054)**	Design and Analysis of Algorithms **(R1931124)**	**Professional Elective -I:-** i) Software Testing Methodologies **(R193105D)** ii) NoSQL Databases **(R193112A)** iii) Scripting Languages **(R193112B)** iv) Computer Graphics **(R193105A)** v) R-Programming **(R193112C)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, JANUARY - 2022

TIME TABLE

TIME: 10.00 AM TO 12.00 PM

BRANCH	DATE & DAY					
	18-01-2022 (Tuesday)	**19-01-2022 (Wednesday)**	**20-01-2022 (Thursday)**	**21-01-2022 (Friday)**	**22-01-2022 (Saturday)**	**24-01-2022 (Monday)**
AUTO MOBILE ENGINEERING (24 AME)	Dynamics of Machinery **(R1931031)**	Fuels and Combustion **(R1931241)**	Automotive Components Design **(R1931242)**	Micro Processors and Micro Controllers **(R1931243)**	Machine Tools & Metrology **(R1931244)**	……
MINING ENGINEERING (26 MM)	Underground Coal Mining Technology **(R1931261)**	Mine Environment Engineering – II **(R1931262)**	Rock Mechanics **(R1931263)**	Mining Machinery & Mechanization-I **(R1931264)**	Corporate Social Responsibility in Mining (R1931265)	**Open Elective :-** i) Waste Water Management **(R193126A)** ii) Environmental impact analysis **(R193126B)** iii) Disaster Management and Mitigations **(R193126C)**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)	Process Dynamics & Control **(R1931271)**	Well Logging & Formation Evaluation **(R1931272)**	Drilling & Well Completions **(R1931273)**	Managerial Economics & Financial Analysis **(R1931279)**	**Professional Elective -I :-** i) Fundamentals of Liquefied Natural Gas. **(R193127A)** ii) CBM Reservoir Engineering **(R193127B)**	**Open Elective - I :-** i) Disaster Management **(R193101F)** ii) Renewable Energy Sources **(R193127C)**
AGRICULTURAL ENGINEERING (35 AGE)	Thermodynamics and Refrigeration systems **(R1931351)**	Soil and Water Conservation Engineering **(R1931352)**	Agricultural Process Engineering **(R1931353)**	Managerial Economics & Financial Analysis **(R1931279)**	Farm Machinery and Equipment - I **R1931354**	……

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Controller of Examinations

DATE: 31-01-2021

Code No: P161111/R16 **RA** SET - 1

III B. Tech I Semester Regular/Supplementary Examinations, October/November - 2019

ENGINEERING MECHANICS

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A **(14 Marks)**

1. a) Write coulomb's laws of dry friction. [3M]

   b) What is law of polygon of forces? [2M]

   c) Define centroid and centre of gravity. [2M]

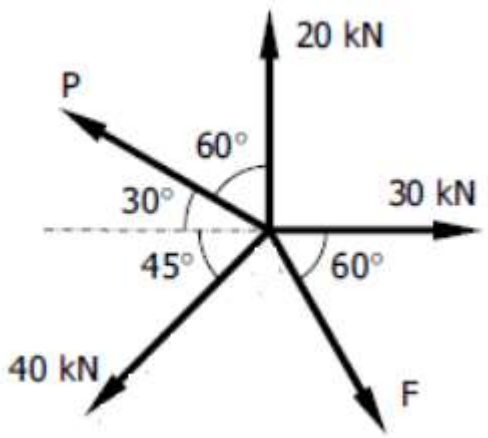
   d) Define the term radius of gyration. Write the units. [2M]

   e) State Newton's three laws of motion. [3M]

   f) Write Impulse-Momentum equation. [2M]

PART –B **(56 Marks)**

2. a) The five forces shown in figure are in equilibrium. Compute the values of P and F. [6M]



   b) Blocks A and B have a mass of 3 kg and 9 kg, respectively, and are connected to the weightless links shown in the figure. Determine the largest vertical force P that can be applied at the pin C without causing any movement. The coefficient of static friction between the blocks and the contacting surfaces is 0.3. [8M]
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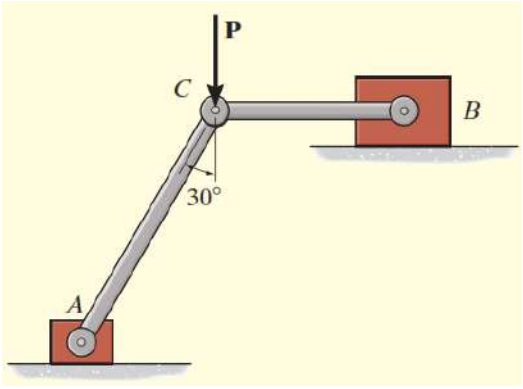
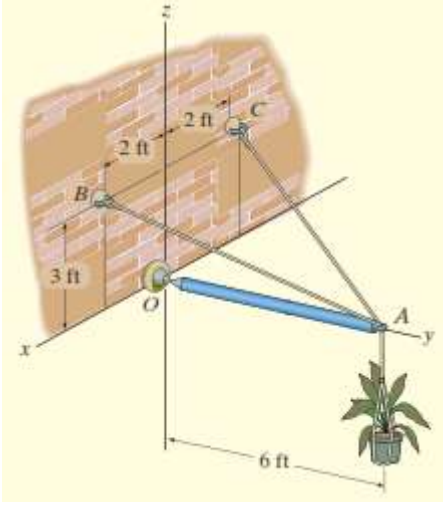
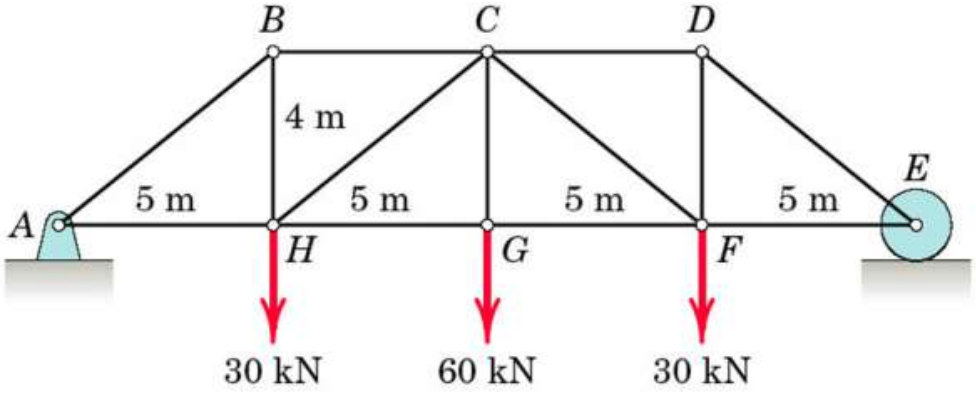


3. a) The boom is used to support the 75-lb flowerpot shown in the figure. Determine the tension developed in wires AB and AC. [7M]

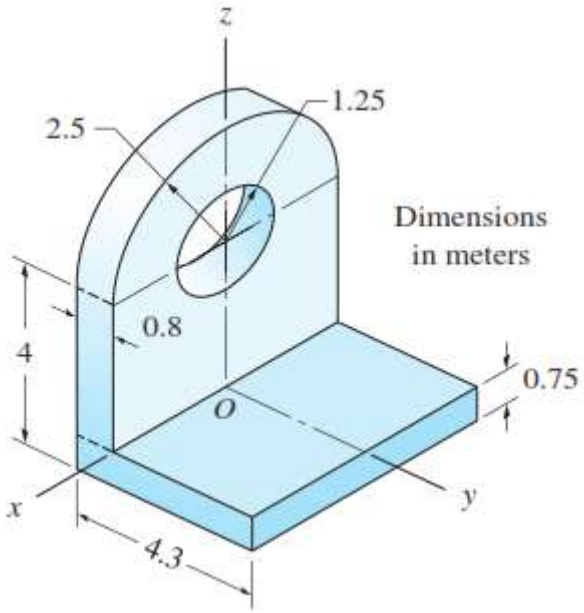


b) Determine the force in each member of the loaded truss by method of Joints. [7M]



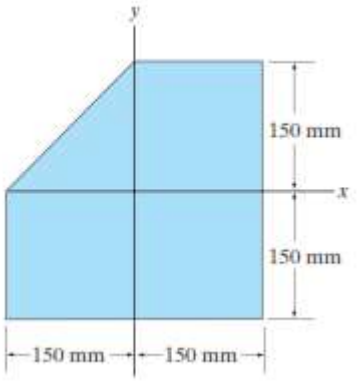
e

4. a) Determine the location of the centroid of the volume for the machine part shown in the figure. [8M]

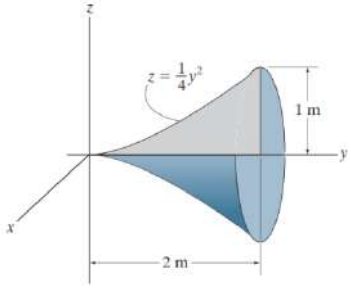


b) What is center of gravity? Derive the expressions to find the center of gravity of composite bodies. [6M]

5. a) Determine the moment of inertia of the composite area about the y axis. [7M]

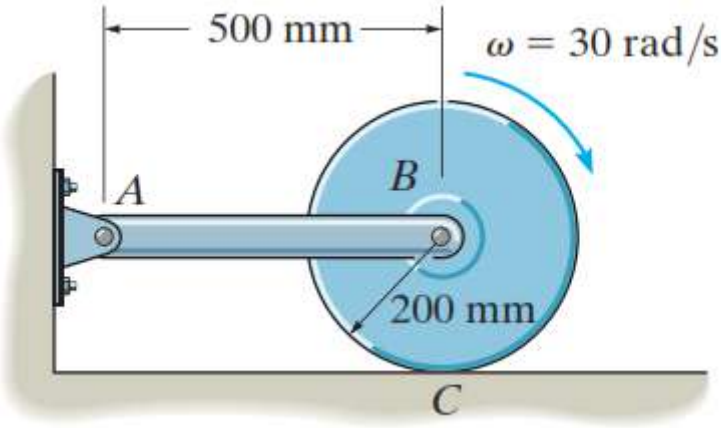


b) Determine the mass moment of inertia of the solid formed by revolving the shaded area around the axis. The density of the material is ρ. Express the result in terms of the total mass m of the solid. [7M]

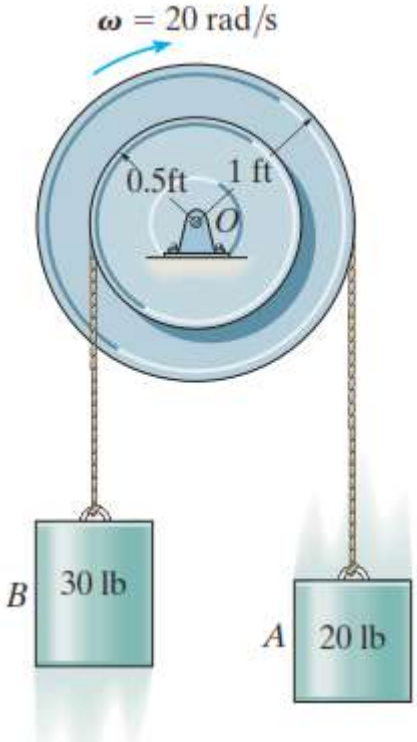


6. a) A motorist is travelling on a curved section of highway of radius 1000 m at the speed of 80 km/h. The motorist suddenly applies brakes, causing the bike to slow down at a constant rate. Knowing after 8 sec the speed has reduced to 40 km/h, determine the acceleration of the automobile immediately after the brakes have been applied. [7M]

b) The 50-kg cylinder has an angular velocity of 30 rad/s when it is brought into contact with the surface at C. If the coefficient of kinetic friction is 0.2, determine how long it will take for the cylinder to stop spinning. What force is developed in link AB during this time? The axis of the cylinder is connected to two symmetrical links. (Only AB is shown.) For the computation, neglect the weight of the links. [7M]



7. a) The double pulley consists of two parts that are attached to one another. It has a weight of 50 lb and a radius of gyration about its center of k_O=0.6 ft. If it rotates with an angular velocity of 20rad/s clockwise, determine the kinetic energy of the system. Assume that neither cable slips on the pulley. [8M]



b) Explain the principle of angular impulse and momentum. [6M]

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Code No: P161212/R16 **RA** SET - 1

III B. Tech I Semester Regular/Supplementary Examinations, October/November - 2019

ENVIRONMENTAL STUDIES

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A (14 Marks)

1. a) Explain about Global warming. [2M]
   b) Write about World food problems [2M]
   c) Define ecosystem diversity. [2M]
   d) Define Noise pollution. [3M]
   e) Write about Public awareness. [3M]
   f) What is EMP? [2M]

PART –B (56 Marks)

2. a) Explain the Role of information Technology in Environment and human health. [7M]
   b) Explain the characteristic features of Forest ecosystem. [7M]

3. a) Describe food chain, food web and ecological pyramids with suitable examples and Diagrams. [7M]
   b) Define what is forest community? Explain the direct and indirect benefits from forests. [7M]

4. a) Comment upon Indian biodiversity with special reference as a mega diversity nation. [7M]
   b) What is Red Data Book? What do you mean by extint, endangered, vulnerable and rare species? [7M]

5. Describe the Sources, Effects and Methods of control of the following: [14M]
   i) Sources of water pollution
   ii) Noise Pollution.

6. a) Explain about Urban problems related to energy. [7M]
   b) Explain about Forest Conservation Act. [7M]

7. a) Discuss the process of Screening and Scoping as applicable to EIA in Indian context. [7M]
   b) List the criteria to be considered while selecting an EIA Methodologies. [7M]

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Code No: P1621026/R16 **RA** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November - 2019

MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A (14 Marks)

1. a) What do you mean by demand? [2M]
   b) Cobb Douglas Production Function. [2M]
   c) Limit Pricing. [2M]
   d) What is a partnership firm? [3M]
   e) Journal. [3M]
   f) Net Present Value. [2M]

PART –B (56 Marks)

2. a) 'Managerial Economics is economics applied in decision making'. Explain. [7M]
   b) What do you mean by elasticity of demand? Explain the types of elasticity of demand. [7M]

3. a) Explain in detail about economies of scale. [7M]
   b) From the following information of Mahesh & Co; [7M]
   Profit-Volume Ratio 20%
   Fixed cost Rs26, 000
   Selling price per unit Rs 150
   Calculate
   i) BEP (in Rs)
   ii) BEP (in units)
   iii) Variable cost per unit
   iv) Selling price per unit

4. a) What is monopoly? What are its conditions? Explain how price is determined under monopoly? [7M]
   b) Explain Williomson's model of theory of firm. [7M]

5. a) What do you understand by business cycle? Explain its phases in detail. [7M]
   b) Elucidate the features of a sole trader firm. [7M]

6. a) What are the various types of financial statements? Discuss the advantages of financial statement analysis. [7M]
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b) Following is the Income Statement of Malhotra Ltd for the year ending 31st April, 2013. [7M]

Income Statement

Dr	Rs	Cr	Rs
To Opening Stock	55,750	By Sales	3,10,000
To Purchase	1,89,150	By Closing Stock	59,100
To Carriage	1,200		
To Wages	3,000		
To Gross profit	1,20,000		
	3,69,100		3,69,100

Dr	Rs	Cr	Rs
To Operating expenses	72,000	By Gross Profit	1,20,000
To Non-Operating expenses	2200	By Non-operating income	4,600
To Net Profit	50,400		
	1,24,600		1,24,600

You are required to calculate:
i) Gross Profit Ratio
ii) Net Profit Ratio
iii) Operating Profit Ratio
iv) Stock Turnover Ratio

7. a) Explain the significance of discounting principle in managerial decision making. [7M]
   b) Explain the traditional methods of appraising project profitability. [7M]

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Code No: P1621054/R16 **RA** SET - 1

III B.Tech I Semester Regular/Supplementary Examinations, October/November - 2019

PYTHON PROGRAMING

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A (14 Marks)

1.	a)	Mention the reserved words in Python.	[2M]
	b)	What are the conditional statements used in python?	[2M]
	c)	When a dictionary is used instead of a list?	[2M]
	d)	List some of the built-in modules in python.	[3M]
	e)	Differentiate between Errors and Exceptions.	[3M]
	f)	What is the need of testing?	[2M]

PART –B (56 Marks)

2.	a)	Explain the basics for executing a python program using REPL(Shell) with an example.	[7M]
	b)	Discuss the role of indentation in python.	[7M]
3.	a)	Explain the various operators supported in python.	[7M]
	b)	Discuss about continue and pass statements with syntax.	[7M]
4.		Write code snippets in Python to perform the following: i) Accessing Elements of a Tuple ii) Modifying Elements of a Tuple iii) Deleting Elements of a Tuple.	[14M]
5.	a)	Describe in detail about the rules to be followed while using Lambda function.	[7M]
	b)	How will you create a Package & import it? Explain.	[7M]
6.	a)	Write a python program to catch a Divide by Zero exception.	[7M]
	b)	Describe in detail about user – defined exceptions.	[7M]
7.	a)	Discuss briefly about GUI Programming in python.	[7M]
	b)	Explain data compression using *Zlib* library.	[7M]

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Code No: P1622016/R16 **RA** SET - 1

III B.Tech I Semester Regular/Supplementary Examinations, October/November - 2019

TRANSPORTATION ENGINEERING – I

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A (14 Marks)

1. a) Explain the necessity and objects of highway planning. [2M]
   b) What are the factors on which the stopping sight distance depends? Explain briefly. [2M]
   c) Explain origin and destination study. What are the various uses of O&D studies? [2M]
   d) Explain group index method of pavement design. What are the limitations of this method? [3M]
   e) Explain the CBR method of pavement design. [3M]
   f) Briefly list the method of construction of gravel roads. [2M]

PART –B (56 Marks)

2. a) Briefly explain Importance of roads in India as per vision 2021. [7M]
   b) What are the factors affecting the alignment? Explain. [7M]

3. a) Calculate the safe overtaking sight distance for a speed of 70 kmph. Assume all other necessary data. [7M]
   b) Design the rate of super elevation for a horizontal highway curve of radius 600 m and speed 200 kmph. [7M]

4. a) What are the various types of traffic markings commonly used? What are the uses of each? [7M]
   b) Explain different types of traffic islands with neat Sketches. [7M]

5. a) Explain penetration test on bitumen in detail with their limits. [7M]
   b) Describe the procedure of Los Angeles abrasion test. [7M]

6. a) Discuss the effects of repeated applications of loads on pavements. Explain equivalent wheel load factor for repetition of different loads. [7M]
   b) What are the steps for the thickness design of rigid pavement as per IRC Guide lines? [7M]

7. a) List the requirements and specifications of cement concrete road construction. [7M]
   b) Write a short note on mud pumping. [7M]

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Code No: P1622034/R16 **RA** SET - 1

III B.Tech I Semester Regular/Supplementary Examinations, October/November - 2019

DESIGN OF MACHINE MEMBERS –I

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**
4. **Data Book not allowed.**

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PART –A (14 Marks)

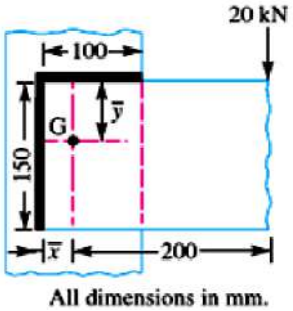
1. a) Define the following properties of a material: i) Ductility, ii) Toughness. [2M]
   b) Define notch sensitivity factor. [2M]
   c) Give some examples for locking devices. [2M]
   d) Distinguish between shaft, axle and spindle from the design point of view. [3M]
   e) What are the uses of a flexible coupling? [3M]
   f) What is the function of a spring? [2M]

PART –B (56 Marks)

2. a) Describe the different manufacturing considerations in the design? [6M]
   b) At a critical section in a shaft, is subjected to a twisting moment of 20 kN-m and a bending moment of 16 kN-m. The yield strength of the shaft is 700 MPa. Determine the diameter of shaft according to any three theories of failure. Take factor of safety =3, E= 210 GPa, and Poisson's ratio = 0.25. [8M]

3. a) A shaft of circular cross-section is subjected to a turning moment that fluctuates between 800kN-m and 600kN-m, and also a bending moment that fluctuates between +500kN-m and -300kN-m. The material selected for the shaft has a shear value of 100MPa at endurance limit and shear value of 120MPa at the yield point. Determine the diameter of the shaft taking a value of 2.5 for the factor of safety. Surface factor, size factor and load factor can be taken as 0.9, 0.85 and 1 respectively. Shear stress concentration factor is 1.8 and the notch sensitivity is 0.95. [10M]
   b) What is endurance limit? Explain the various factors affecting endurance limit of a material. [4M]

4. a) Fig.1 shows a welded joint subjected to an eccentric load of 20 kN. The Welding is only on One side. Determine the uniform size of the weld on the entire length of two legs. Take Permissible shear stress for the weld material as 80 MPa. [8M]



All dimensions in mm.

Fig.1

   b) How are eccentrically loaded bolted joints designed? [6M]
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5. Design a socket and spigot cotter joint to connect two mild steel rods for a pull of 50 kN. The maximum permissible stresses are 55N/mm^2 in tension, 40N/mm^2 in shear and 70 N/mm^2 in crushing. Draw a neat sketch of the joint. [14M]

6. a) Design a split muff coupling to transmit 50 KW power at 120 rpm. The shafts, key and clamping bolts are made of plain carbon steel with allowable shear stress of 40 N/mm^2. The number of clamping bolts is 8. The coefficient of friction between sleeves halves and shaft is 0.3. [7M]

   b) What are flexible couplings and what are their applications? Illustrate your answer with suitable examples and sketches. [7M]

7. a) A helical spring is made from a wire of 6 mm diameter and has outside diameter of 75 mm. If the permissible shear stress is 350 MPa and modulus of rigidity 84 kN/mm^2, find the axial load which the spring can carry and the deflection per active turn. [7M]

   b) A truck leaf spring has 10 leaves and it's supported at a span length of 1 meter, with a central band of 80 mm wide. A load of 6 kN is applied at the center of spring whose permissible stress is 300 N/mm^2. The spring has a ratio of total depth to width of about 2.5. Determine the width, thickness, deflection and length of all leaves. [7M]

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Code No: P1622042/R16 **RA** SET - 1

III B. Tech I Semester Regular/Supplementary Examinations, October/November - 2019

CONTROL SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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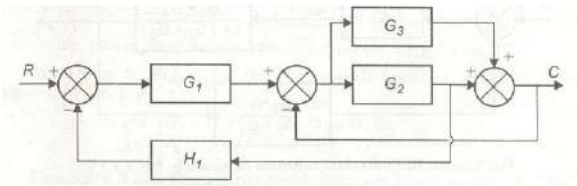
PART –A (14 Marks)

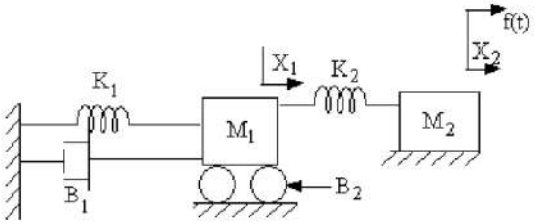
1. a) What are the various elements of block diagram? [2M]
   b) How the steady state error is defined? [2M]
   c) State the properties of Root Locus. [2M]
   d) What does a phase margin close to zero indicate? [3M]
   e) What are the advantages of frequency domain analysis? [3M]
   f) State the limitations of state variable analysis. [2M]

PART –B (56 Marks)

2. a) What are differences between block diagram reduction and signal flow graph reduction in obtaining the transfer function? Explain. [7M]
   b) Determine the transfer function for the following block diagram shown in the figure. [7M]



3. a) Find the transfer function X(s)/F(s) of the system given in below figure. [7M]



   b) Explain the important time response specification of a standard second ordered system to a unit step input. [7M]

4. a) The characteristic equation of a feedback control system is: [7M]
   $S^3 + (K + 0.5)S^2 + 4Ks + 50 = 0$. Using R-H criterion determine the value of K for which the system is stable.
   b) Sketch the root locus diagram for a unity feedback system with its open loop [7M]
   function as, $G(S) = \dfrac{K(S+3)}{S(S^2+2S+2)(S+5)(S+9)}$. Thus find the value of K at a point where the complex poles provide a damping factor of 0.5.
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5. a) Explain the effect of addition of a pole at the origin on the polar plot of a given system. [7M]

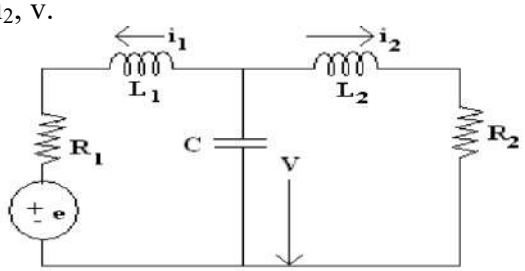
   b) Sketch the Bode Plot for a unity feedback system characterized by the open loop transfer function G(s) = $\frac{K(1+0.2s)(1+0.025s)}{s^3(1+0.001s)(1+0.005s)}$. Show that the system is conditionally stable. [7M]

6. a) What is a lead compensator? Obtain the transfer function of lead compensator and draw pole-zero plot. [7M]

   b) Discuss about the PID controllers? Derive its transfer function. [7M]

7. a) Define the state transition matrix? Explain the properties of state transition matrix. [7M]

   b) Obtain the state model of the system for the figure shown below. Consider the state variables as i_1, i_2, v. [7M]



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Code No: RT31026 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

LINEAR AND DIGITAL IC APPLICATIONS

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1	a)	Draw the circuit of a FET differential amplifier	[3M]
	b)	Explain about virtual ground concept.	[4M]
	c)	Sketch the summing amplifier using op- amp.	[4M]
	d)	Explain how VCO can be used as voltage to frequency converter?	[4M]
	e)	Explain the significance of all pass filters.	[3M]
	f)	What is the need for A/D and D/A conversion?	[4M]

PART –B (48 Marks)

2	a)	With a neat sketch explain the ac analysis of single input balanced output differential amplifier	[8M]
	b)	Explain about current repeater circuits.	[8M]
3	a)	Define the following terms: i) Input offset current. ii) Input bias current iii) CMRR iv) Slew rate.	[6M]
	b)	With neat sketch explain about Dual power supplies with shunt capacitance filter.	[10M]
4	a)	With a neat sketch explain the zero crossing detector.	[8M]
	b)	With neat diagram explain Schmitt trigger using op amp.	[8M]
5	a)	How 555 timer acts as monostable multivibrator (pulse stretcher)? Explain.	[8M]
	b)	Draw and explain the principles and description of individual blocks of PLL in detail.	[8M]
6	a)	Draw the 2^{nd} order band pass filter and draw its frequency response in detail.	[6M]
	b)	Derive the expression for gain of a second order low pass filter.	[10M]
7	a)	Explain the operation of Differential weighted resistor D/A Converter with neat circuit diagrams.	[8M]
	b)	Explain the operation of comparator method of A to D converter.	[8M]

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Code No: RT31036 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

METROLOGY

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1 a) What is a tolerance? Give its importance. [3M]
b) Explain the Taylor's principle in the design of Go and No Go gauges. [4M]
c) What is NPL flatness interferometer? [3M]
d) Mention the importance of Profilograph. [4M]
e) How an involute profile checking is done? [4M]
f) Give any two alignment principles for drilling. [4M]

PART –B (48 Marks)

2 a) Explain briefly the difference between interchangeable manufacture and selective assembly. [8M]
b) Discuss briefly about hole and shaft basis systems. [8M]

3 a) State and explain the essential requirement for accuracy in the construction of sine bar. [8M]
b) How spirit levels are calibrated? Explain. [8M]

4 a) Draw the optical path of a tool maker's microscope and explain how it is used to measure the tool angles? [8M]
b) Explain the working principle of Michelson's interferometer with a neat sketch. [8M]

5 a) Distinguish between surface waviness and roughness. Describe how waviness is eliminated during the measurement of surface roughness? [8M]
b) Briefly enumerate the advantages and limitations of a differential pneumatic comparator. Explain the basic principle of operation of a typical pneumatic measuring instrument. [8M]

6 a) Describe the base-tangent method of measuring tooth thickness of gear. [8M]
b) When measuring the effective diameter of an external screw thread gauge of 3.5 mm pitch, a 30.500 mm diameter cylindrical standard and wires of 2.00 mm diameter were used. The micrometre readings over the standard and wires and gauge and cylinders were 13.3768 mm and 12.2428 mm respectively. Calculate the thread gauge effective diameter. [8M]

7 a) Briefly discuss the principles of machine tool alignment testing on lathe with neat sketch. [8M]
b) Explain the working principle of auto collimator with neat sketch. [8M]

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Code No: RT31086 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

PROCESS INSTRUMENTATION

(Common to Chemical Engineering, Petroleum Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1	a)	Dynamic characteristics of an instrument.	[3M]
	b)	What is thermal well and name different thermal wells?	[4M]
	c)	What are the different types of spectroscopic analysis known and used?	[4M]
	d)	Discuss about density measurement.	[4M]
	e)	List out the flow meters used to find the flow of dry materials.	[4M]
	f)	What are the important applications of recording instruments?	[3M]

PART –B (48 Marks)

2	a)	Explain the principle and measurement of temperature by Bimetallic thermometers.	[8M]
	b)	Explain about the various elements of Instruments.	[4M]
	c)	Discuss about the response of thermometers.	[4M]
3	a)	State and explain the laws of thermoelectric circuits.	[3M]
	b)	Explain the working of a photoelectric pyrometer with a neat sketch.	[8M]
	c)	Explain in detail the desired properties of Industrial thermocouples.	[5M]
4	a)	How many methods are known for Gas Analysis? Discuss one of them.	[8M]
	b)	Explain the working and principle of any three liquid-column manometers with neat diagrams.	[8M]
5	a)	Explain briefly level measurements in pressure vessels.	[8M]
	b)	Explain briefly pressure measurement in open vessels.	[8M]
6	a)	Explain the principle and working of a venturimeter to measure flow rates.	[8M]
	b)	Explain how viscosity measurements are made using rotational viscometer? Explain.	[8M]
7	a)	Discuss in detail about Indicating and signaling instruments.	[8M]
	b)	Discuss the significance of the control center in a chemical process industry for controlling process operations.	[8M]

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Code No: RT31216 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

INTRODUCTION TO SPACE TECHNOLOGY

(Aeronautical Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1 a) Write a note on space missions. [4M]
b) What is the need of powered accent phase in a launch vehicle? [3M]
c) What are the limitations of reentry? [4M]
d) Write a note on classification of trajectories. [4M]
e) What is meant by orbital maneuver and name different types of orbital maneuver? [3M]
f) Write a short on altitude determination techniques. [4M]

PART –B (48 Marks)

2 a) Derive a Tsiolkovsky's Rocket Equation. [4M]
b) Explain in detail about Launch Vehicle selection criteria and its necessity. [8M]
c) Explain about solid propellant rocket system. [4M]

3 a) What are the losses of accent phases of a launch vehicle? Explain. [6M]
b) Consider a two-stage rocket with two boosters. The total weight of two serial stages is 15,000 kg and that of each booster is 5000 kg (4000 kg propellant + 1000 kg structure). The exhaust velocity of all the stages including the booster is 3000 m/s and the mass flow rate of propellant from each booster and each stage is 70 kg/s. Calculate ΔV achieved by the vehicle. [10M]

4 a) Write a short note on different types of reentry. [8M]
b) Let us consider ballistic reentry for an object with the following specifications: V_E=8 km/s, $\gamma = 10^o$ β = 5000kg/m^{2}g, T=288 K, a= 0.000118 m^{-1}. Find [8M]
i) the altitude 'h' at which deceleration is maximum,
ii) what is this maximum deceleration, velocity at this altitude and
iii) velocity of the vehicle when it reaches surface of earth.

5 a) Show that the angular momentum is a constant in the absence of a non- radial force. [8M]
b) Satellite injected at 9 km/s at 5^o to horizontal, at height of 300 km. Find: [8M]
i) Perigee location and height ii) Apogee height.

6 a) Explain the gravity assist maneuver with neat sketches. [6M]
b) Derive an expression for Hoffmann transfer and inclination change maneuver. [10M]

7 a) Write a note on altitude determination sensor. [8M]
b) Explain about the thrusters used in altitude stabilization. [8M]

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Code No: RT31246 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

FUELS AND COMBUSTION

(Automobile Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A**is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1	a)	Classify and explain any two liquid fuels and state its effect on calorific value.	[4M]
	b)	What is water gas? How it is prepared?	[4M]
	c)	What is complex reaction? Explain.	[3M]
	d)	Define enthalpy of formation.	[4M]
	e)	What do you understand by burning velocity of fuel? Explain.	[4M]
	f)	Discuss the basic features of solid burners.	[3M]

PART –B (48 Marks)

2	a)	Explain proximate analysis of coal and state its significance.	[8M]
	b)	With neat labelled sketch explain the process of coal gasification.	[8M]
3	a)	Describe the process of fractional distillation of petroleum.	[8M]
	b)	Write a short note on combustion equipment used for liquid fuels.	[8M]
4	a)	Draw a schematic diagram of Orsat's apparatus and explain how flue gas analysis is done?	[8M]
	b)	Calculate the minimum volume of air required for the complete combustion of one litre of a gaseous fuel containing the following composition by volume CO-23%, H_2-12%, CH_4-35, CO_2-5%, N_2-55% and O_2-2%.	[8M]
5	a)	What do you understand by equilibrium composition of gaseous mixtures? Explain.	[8M]
	b)	Determine the adiabatic flame temperature when liquid Octane [C_8H_{18}] at 25^0C is burned with 300% theoretical air at 25^0C in a steady flow process.	[8M]
6	a)	What do you understand by the word "Turbulent Flame"? What are the factors affecting turbulent flame propagation?	[8M]
	b)	Explain the combustion phenomenon of liquid fuels.	[8M]
7	a)	With a neat sketch explain in detail about fluidized bed system.	[8M]
	b)	Write a short note on regenerative burners.	[8M]

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Code No: RT31266 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November -2019

MINE MECHANIZATION

(Mining Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1 a) Explain in brief about the air leg type drill used in underground mines. [4M]
b) Write about applicability and limitations of direct rope haulage. [4M]
c) Write about the principle of operation of cable belt conveyors. [4M]
d) What is the importance of Keps used in man winding? Write also the advancements in it. [4M]
e) What are the applications of Load Haul Dumpers in underground mines? [3M]
f) Write about the applications of Roto pumps in underground mines. [3M]

PART –B (48 Marks)

2 Explain about different types of motive powers being used in mining machinery with their applicability, advantages, disadvantages and limitations. [16M]

3 a) Calculate the size of rope and the drum for a direct haulage to haul 360 tonnes in 6 hours effective hauling time; up an incline 1200 meters long having a gradient of 1 in 8. Assume each tub to weigh 0.5 tonnes and to carry 1.5 tonnes of coal. Speed of the haulage may be taken as 12km/hr? [8M]

b) Describe the construction, operation and limitations of bi-cable aerial ropeway with a neat sketch. [8M]

4 a) A Face chain conveyor transports the coal at the rate of 420 T/hr over length of 150 m on downhill gradient of 1 in 10 at a speed of 1.25 m/sec. The mass of chain and flights assembly is 30 kg/m. The coefficient of friction between the chain and trough is 0.35 and that between coal and trough is 0.5. Calculate the motor power required for conveyor drive? Assume any other data if necessary. [8M]

b) Explain about the relative merits, demerits and field of application of different types locomotives used in mines. [8M]
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5 A winding engine hoists per wind 3.5 tef of pay-load of copper or in 2 mine cars up a vertical shaft, 600 m deep. As the loaded cage comes up, the empty cage with 2 mine cars goes down. The cage used has 2 decks, each deck accommodating 1 mine car of tare 0.75 tef. Weight of the cage, the cage chains and suspension gear is 5 tef. The duty cycle consists of acceleration 10 sec; constant speed 30 sec; deceleration 10 sec; decking period 10 sec. The winding rope weighs 5.59 kgf/m length. Length of the rope from top cage to drum when decking is 36 m and there is also 40 m of dead rope always on each side of the drum. The head gear pulleys are 4.2 m diameter and each weighs 2 tef. Calculate the torques at different stages of winding? [16M]

Case 1: for cylindrical drum without tail rope, and
Case 2: for cylindrical drum with tail rope.

6 a) What are the factors to be considered prior to selection of suitable drilling machine in underground coal mines? Explain. [8M]

b) Explain about the Construction and principle of operations of a Shovels used in Opencast mines with a neat sketch. [8M]

7 A turbine pump is required to work under the following conditions: [16M]

RPM: 1440; Capacity 2700 Liters per min; total head from all causes 360 m; angle of curvature of the impeller blades $\Theta = 35^0$ (backward curved); manometric efficiency 0.7; radial velocity of water 2 m/s? Find the number of impellers, their diameter and width of each impeller? Note: Assume any other data if requires.

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Code No: **RT42042** **R13** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, July/August - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) What are the indications of precision? Explain [3]
   b) What is Digital Fourier analyzer? Explain [3]
   c) Draw the vertical amplifier of CRO and what are its functions [4]
   d) What are the applications and limitations of Wheatstone bridge [4]
   e) How do you select a transducer? Explain [4]
   f) What are the objectives of a DAS [4]

PART–B *(3x16 = 48 Marks)*

2. a) Discuss in detail about the range extension of differential voltmeters [8]
   b) A 200 Ω basic movement is to be used as an ohmmeter requiring full scale deflection of 1 mA and internal battery voltage of 5 V. A half scale deflection marking of 2 k is desired. Calculate
      i. The values of R_1 and R_2
      ii. Maximum value of R to compensate for a 3% drop in battery voltage [8]

3. a) Draw the block diagram of a spectrum analyzer and explain its working. [8]
   b) Draw and explain the working principle of harmonic distortion analyzer. [8]

4. a) What are active probes used with CRO? Draw the circuit of a FET probe and explain [8]
   b) Draw the circuit diagram of a simple compensated attenuator and explain its working [8]

5. a) Illustrate the method of measurement of unknown inductance by Maxwell's bridge [8]
   b) A sheet of 4.5 mm thick Bakelite is tested at 50 Hz between 12 cm in diameter. The Schering bridge uses a standard air capacitor C_2 of 105 pF capacitor, a non-reactive, R_4 of 1000/∏ in parallel with a variable capacitor and is obtained with C_4 = 0.5 µF and R_3 = 260 Ω. Calculate the capacitance, PF and relative permittivity of the sheet [8]

6. a) Draw the construction diagram and explain the working of LVDT [8]
   b) What is a thermistor? Explain. Write about its advantages and disadvantages [8]

7. Write short notes on the following
   a) Measurement of force
   b) Multi channel DAS [16]

Code No: **RT42042** **R13** **Set No. 1**

IV B.Tech II Semester Regular Examinations, April/May – 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Give a classification of voltmeters [4]
   b) Distinguish between spectrum analyzer and harmonic distortion analyzer [4]
   c) Explain The concept of Triggered Sweep CRO along with circuit diagram [3]
   d) List out the different Limitations of Wheatstone's Bridge in detail [4]
   e) Draw the circuit diagram of Photo Transistor and explain its output characteristics [3]
   f) Explain the concept of Data acquisition systems in detail [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain the following terms in detail
   (i) Accuracy (ii) Resolution (iii) Precision (iv) Expected value [8]
   b) The following values are obtained from the measurements of the value of a resistor:147.2Ω, 147.4Ω, 147.9Ω, 147.1Ω, 147.5Ω, 147.6Ω, 147.4Ω, 147.6Ω, 147.5Ω. Calculate a) Arithmetic mean b) Average deviation c) Standard Deviation [8]

3. a) What is AF oscillators and explain its operation along with circuit diagram. [8]
   b) Draw the circuit diagram of Digital Fourier Analyzers and explain its operation. [8]

4. a) Explain the Measurement procedure of Lissajous patterns with one example [8]
   b) Explain the principle and working of a storage oscilloscope. [8]

5. a) Explain the operation of Maxwell's Bridge and derive the condition for balance of a Bridge. [8]
   b) In the case of Hay's Bridge one arm has resistance of 10KΩ .Another arm has a resistance of 6.7KΩ. The third arm 8KΩ in series with a capacitor of 0.5μF. Determine the values of the elements Rx and Lx in the fourth arm. [8]

6. a) Explain the following terms in detail
   (i) Thermistors (ii) Sensistors. [8]
   b) What is the difference between photo-emissive, photo-conductive and photovoltaic transducers? [8]

7. a) With the help of a neat sketch explain the principle and working of Electromagnetic Flow meter. What are the advantages and Limitations of this Method? [8]
   b) Briefly explain the working principles and measurement of force by any two nonelectric techniques? [8]

Code No: **RT42042** **R13** **Set No. 2**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Explain the procedure how to find Errors in Measurement with example [4]
   b) List out the difference between fixed frequency and variable AF oscillator in detail. [3]
   c) Define deflection sensitivity of a CRT? [4]
   d) Define Quality factor and give the expressions for the inductive and capacitive Quality factors. [4]
   e) Explain Primary and secondary Transducers [3]
   f) Explain any one of the method for the measurement of humidity? [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain the following terms in detail
   (i) speed of response (ii) Fidelity (iii) Lag and Dynamic error. [8]
   b) List out different AC voltmeters and explain the working of any one voltmeter in detail. [8]

3. a) Draw the circuit diagram of Sweep generator and explain its operation in detail [8]
   b) Define a wave analyzer and classify them. Explain the working of a Resonant Wave Analyzer. [8]

4. a) Explain the concept of Storage oscilloscope along with circuit diagram [8]
   b) Draw the circuit diagram of Sampling oscilloscope and explain its operation n detail. [8]

5. a) Draw the circuit diagram of Schering's Bridge and explain the operation of it. [8]
   b) Explain the "parallel-connection" method of using Q-meter and Obtain the expressions for resistance, reactance and Q factor. [8]

6. a) Derive the expression for Gauge factor of a strain Gauge. [8]
   b) A Thermistor has a resistance of 3980 Ω at the ice point(0^0 C) and 749Ω at 50^0 C. The resistance Temperature relationship is $R_T = aR_0e^{b/T}$. Find the values of a and b. Calculate the resistance to be measured in case the temperature varies from 40^0C to 100^0C. [8]

7. a) A Barium Titanate pickup has the dimensions of 5mmX5mmX1.25mm. The acting force is 5N. The charge sensitivity of the material is 150pc/N and permittivity is $12.5X10^{-9}$F/m. If the modulus of elasticity of material is $12X10^6N/m^2$, calculate the strain, charge and capacitance. [8]
   b) What are the two types of anemometer available for liquid flow measurement? Explain the principle and operation of Hotwire Anemometer. [8]

Code No: **RT42042** **R13** **Set No. 3**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Draw the series type Ohmmeter and explain its operation [4]
   b) Draw the Basic wave analyzer and explain its operation [4]
   c) List out the different Futures of CRT in detail [3]
   d) Derive the balance condition of Bridge. [4]
   e) List out difference between active and passive transducer in detail [4]
   f) Explain piezo electric effect. [3]

PART–B *(3x16 = 48 Marks)*

2. a) Two ammeters are joined in series in a circuit carrying 100 A. one ammeter has a resistance of 10000 ohm shunted by 0.10 ohm while the other ammeter has a resistance of 150 ohm shunted by 0.02ohm. if the shunts are interchanged what would be the readings of the instruments? [8]
   b) Draw the Sketch and explain the principle and operation of Thermocouple type Ammeter. [8]

3. a) Explain the operation of Harmonic Distortion Analyzer. [8]
   b) What is Heterodyning and explain the use of Heterodyning in spectrum analyzer along with its circuit diagram. [8]

4. a) Draw the circuit diagram of Dual Trace oscilloscope and explain its operation in detail. [8]
   b) Explain various types of probes used for CRO. [8]

5. a) Draw the circuit of Wien Bridge and derive the expression for bridge balance. [8]
   b) In the case of a Schering Bridge, arm Ac has R=4.7kΩ. Arm CD has unknown elements. Arm BD has C=0.1μF Arm AB=4.7KΩ is shunt with 1MF. Determine Values of components is the arm CD. [8]

6. a) What is Thermistor and explain its importance along with advantages of it [8]
   b) Draw the Linear variable differential Transducer and explain its operation in detail. [8]

7. a) Define Humidity and give a classification. Explain the procedure for the measurement of humidity. [8]
   b) Explain in detail about the stroboscope for the measurement of speed. [8]

Code No: **RT42042** **R13** **Set No. 4**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Define and derive static and Dynamic error [4]
   b) Explain the concept of Digital Fourier Analyzer in detail [4]
   c) Explain the basic principal of CRO in detail [3]
   d) List out the different Precautions to be taken when using a Bridge with one example [4]
   e) Explain the different Advantages of Electrical Transducers in detail [4]
   f) How does pirani gauge differ from thermocouple gauge in operating principle [3]

PART–B *(3x16 = 48 Marks)*

2. a) List out different DC voltmeters and explain any one voltmeter in detail [8]
   b) A Voltmeter having a sensitivity of 30k/V reads 80V on a 100V scale, when connected across an unknown resistor. The current through the resistor is 2mA. Calculate the % of error due to loading effect. [8]

3. a) Draw the block diagram of a signal generator and explain its operation. [8]
   b) Explain the concept of Wien's Bridge method of Harmonic Distortion Analyzer along with circuit diagram. [8]

4. a) Explain the Vertical amplifier section of CRT along with Block diagram. [8]
   b) An electrically deflected CRT has a final Anode voltage of 2000V and parallel deflecting plates of 1.5cm long and 5mm apart. If the screen is 50cm from the centre of the deflecting plates, Find a) Beam speed b) Deflection sensitivity of the tube and c) Deflection factor of the tube. [8]

5. a) Draw the Anderson Bridge and derive the expression for the unknown inductance. What are the salient features of this bridge circuit? [8]
   b) Quantitatively explain about a bridge which is used for the measurement of the High Quality factor values. [8]

6. a) Explain the Resistive position Transducer along with circuit diagram. [8]
   b) List out different types of Strain Gauges used Transducer and explain any one in detail. [8]

7. a) Define moisture and explain a method to measure it. [8]
   b) Explain the working principle of an accelerometer. [8]

Code No: **RT42042** **R13** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) Define the terms Accuracy and Resolution. [3]
   b) List the applications of wave analyzers. [3]
   c) What are the advantages of dual beam for multiple trace oscilloscopes? [4]
   d) What are the possibilities of errors in PMMC ammeter? [4]
   e) Define Gauge factor for transducer and explain its significance. [4]
   f) Explain the working of dew point meter. [4]

PART–B *(3x16 = 48 Marks)*

2. a) What is the principle and operation of a thermocouple type RF ammeter? [8]
   b) A voltmeter having a sensitivity of 1KΩ/V is connected across an unknown resistance in series with a milli ammeter reading 80V on 150V scale. When the milli ammeter reads 10mA, Calculate the (i) apparent resistance of the unknown resistor (ii) Actual resistance of the unknown resistor, and (iii) Error due to the loading effect of the voltmeter? [8]

3. a) Discuss square wave and pulse generator with neat block diagrams. [8]
   b) Explain the working principle of a harmonic distortion analyzer. [8]

4. a) Explain the operation of wheat stone bridge with derivations. [8]
   b) In case of a Schering bridge, arm AC has R=4.7KΩ.Arm CD has unknown elements. Arm BD has C=0.1µf, Arm AB=4.7KΩ is shunt with 1MF. Determine values of components in the Arm CD. [8]

5. a) Draw the circuit diagram of Maxwell's bridge and derive conditions of balance. [8]
   b) Discuss various methods of connecting components to a Q-meter for measurement. [8]

6. a) Explain the operation of potentiometric transducer. [8]
   b) Describe the construction and working of LVDT. [8]

7. a) Explain the significance of load cell in static and dynamic force measurement. [8]
   b) How angular speed shall be measured using the digital method? [8]

Code No: **RT42042** **R13** **Set No. 2**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) Define sensitivity and precision of an instrument. [3]
   b) Define the terms Dynamic range and Harmonic mixing. [3]
   c) Discuss about the factors affecting the brightness of the display. [4]
   d) What are the problems associated with shielding? And explain the remedies. [4]
   e) List the applications of inductive transducers. [4]
   f) What are the main elements of velocity transducer? [4]

PART–B *(3x16 = 48 Marks)*

2. a) How the working of a potentiometer type digital voltmeter be explained? [8]
   b) Two ammeters are joined in series in a circuit carrying 100A.One ammeter has a resistance of 10000ohm shunted by 0.10ohm while the other ammeter has a resistance of 150ohm shunted by 0.02ohm.if the shunts are interchanged what would be the readings of the instruments? [8]

3. a) Explain the significance and working of frequency selective wave analyzer. [8]
   b) An electrical deflected CRT has a final anode voltage of 2000Vand parallel deflecting plates of 1.5cm long and 5mm apart. If the screen is 50cm from the centre of the deflecting plates. Find: (i) Beam speed (ii) Deflection sensitivity of the tube (iii) Deflection factor of the tube [8]

4. a) Explain the operation of vertical amplifier used in a CRO. [8]
   b) An unbalanced wheat stone bridge has the following resistances with R_1=1 KΩ, R_2=2.5 KΩ, R_3=3.5 KΩ, R_4=10 KΩ with a battery voltage of 6V and a galvanometer resistance of R_g=300 Ω. Calculate the current through the galvanometer? [8]

5. a) Explain the sources of errors and their minimizing methods. [8]
   b) Describe the method of measuring high impedance using Q-meter. [8]

6. a) What is Piezo-electric effect? Explain the operation of Piezo-electric transducer. [8]
   b) Explain the working of capacitive transducers. [8]

7. a) What is proximity? Explain the operation of proximity transducer. [8]
   b) Explain how an LVDT can be used to measure the pressure. [8]

Code No: **RT42042** **R13** **Set No. 3**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B
*****

PART–A *(22 Marks)*

1. a) Explain how the range of DC voltmeter is extended. [4]
   b) What are the applications of spectrum analyzer? [3]
   c) Describe the standard specifications of a CRO. [4]
   d) Explain the limitations of Wheatstone bridge. [3]
   e) Write short notes on Sensistors and Thermistors. [4]
   f) Explain the significance of load cell in force measurement. [4]

PART–B *(3x16 = 48 Marks)*

2. a) Define the sensitivity of a multimeter. Explain the operation of a multimeter using a simple block diagram. [8]
   b) Explain the dynamic response of a second order instrument. [8]

3. a) Draw the circuit diagram and explain the operation of Digital spectrum analyzer. [8]
   b) Explain the requirements of pulse with reference to generator. [8]

4. a) Write short notes on portable oscilloscopes. [8]
   b) Explain the operation of trigger pulse circuit. [8]

5. a) List out different sources of errors and explain the precautions and elimination methods in A.C bridges. [8]
   b) Describe the method of measuring high impedance using Q-meter. [8]

6. a) Explain the principle of operation of strain gauges with the help of neat diagrams. [8]
   b) What are the modes of operation of piezo electric crystals? Explain in detail. [8]

7. a) A Barium titanate pickup has the dimensions of 5 mm × 5 mm × 1.25 mm. The acting force is 5 N. The charge sensitivity of the material is 150 pc/N and permittivity is $12.5X10^{-9}$ F/m. If the modulus of elasticity of material is $12X10^{6}$ N/m^2. Calculate the strain, charge and capacitance. [8]
   b) Draw the block diagram of a standard DAS and explain the function of each block. [8]

Code No: **RT42042** **R13** **Set No. 4**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) Differentiate between a true r.m.s meter and an average responding meter. [4]
   b) Describe the random noise related to signal generators. [3]
   c) What are the features of a Dual beam oscilloscope? [3]
   d) List the sources of errors in Wheatstone bridge. [4]
   e) Write about the merits and demerits of resistance thermometer. [4]
   f) List the applications of Hydraulic force meter. [4]

PART–B *(3x16 = 48 Marks)*

2. a) What is the significance of the number of significant figures in a stated quantity? Give some examples. [8]
   b) Explain the bridge type thermocouple arrangement and mention its applications. [8]

3. a) Explain the working of a heterodyne analyzer using a block diagram. [8]
   b) Discuss about the generation of broadband sweep frequencies using a sweep generator. [8]

4. a) With a neat diagram, describe the working of a triggered sweep CRO. [8]
   b) Describe briefly about various probes used in CROs. [8]

5. a) Derive the expression for unknown resistance in Kelvin double bridge. [8]
   b) Explain the principle and working of Q-meter. [8]

6. a) Describe the operation of capacitive transducers using suitable equations. [8]
   b) A thermistor has a resistance of 3980 Ω at the ice point (0^0C) and 749Ω at 50^0C.The resistance temperature relationship is $R_T = a\ R_0\ e^{b/T}$. Find the values of a and b. Calculate the resistance to be measured in case the temperature varies from 40^0C to 100^0C? [8]

7. a) Differentiate photo-electric and piezo-electric transducers. [8]
   b) Explain the stroboscopic method of measuring the angular speed. [8]

Code No: **RT42042** **R13** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) A set of independent current measurements were recorded as 10.03, 10.10, 10.11 and 10.08 A calculate the range of an error. [4]
   b) Mention the different types of distortion. [3]
   c) What will happen when sweep signal is applied to horizontal plates of CRO? [4]
   d) Obtain an expression for series Q meter circuit. [4]
   e) What is a Transducer? Give the classification of transducers. [3]
   f) Draw the block diagram of Digital Data Acquisition System. [4]

PART–B *(3x16 = 48 Marks)*

2. a) What are the dynamic characteristics of measurement systems? Explain. [8]
   b) Draw the Thermocouple type RF ammeter and explain its operation. [8]

3. a) Describe briefly about Harmonic distortion analyzer. [8]
   b) What are the various applications of Digital Fourier Analyzers? [8]

4. a) Explain digital storage oscilloscope with schematic block diagram and state its Applications. [8]
   b) Illustrate why is triggering circuit provided in a CRO? [8]

5. a) Draw the Wien Bridge and derive the expression for the frequency of excitation Signal at balance. [8]
   b) A 1000 Hz bridge has the following constants:
   Arm AB: R=1 kΩ in parallel with C=0.25 μF
   Arm BC: R=1 kΩ in series with C=0.25 μF
   Arm CB: L=50 mH in series with R=200Ω
   Arm DA: Unknown
   Find the constants of arm DA to balance the bridge. Express the result as a pure R in series with a pure C or L, and as a pure R in parallel with a pure C or L. [8]

6. a) Explain the working of Electrical Resistance Thermometer. Also explain four lead method of measuring resistance. [8]
   b) Explain how the piezoelectric transducer can be used to measure force and pressure. [8]

7. a) With neat sketch explain the measurements of proximity. [8]
   b) With neat sketch explain the measurements of humidity and moisture. [8]

Code No: **RT42042** **R13** **Set No. 2**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) Define the terms Precision and Resolution of an instrument. [4]
   b) Deduce the difference between a wave analyzer and a harmonic distortion analyzer. [3]
   c) What is the comparison between analog and digital storage oscilloscope? [4]
   d) Distinguish between AC Bridges and DC Bridges. [4]
   e) Discuss about Piezo-electric sensors. [3]
   f) Write short notes on interfacing of transducers with DAS. [4]

PART–B *(3x16 = 48 Marks)*

2. a) Define the following
   (i) Response (ii) Fidelity (iii) Lag (iv) Dynamic error [8]
   b) Draw the circuit diagram of Ohmmeters series type, and shunt type and explain its operation in detail. [8]

3. a) Describe the circuits and working of wave analyzers used for audio frequency and megahertz range. [8]
   b) Describe briefly about Total harmonic distortion. [8]

4. a) Draw the circuit diagram of delay line circuit and explain its operation. [8]
   b) Develop an expression for deflection D in CRO, which is the deflection of the electron beam. [8]

5. a) Analyze Q meter? Explain about its application. [8]
   b) A circuit having an effective capacitance of 160pF is tuned to a frequency of 1.2MHz. In this the current falls to 70.7% of its resonant value when the frequency of an emf of constant magnitude injected in series with the circuit deviates from the resonant frequency by 6KHz. Calculate the Q factor and effective resistance by 6KHz. [8]

6. a) Explain the operation of LVDT. Explain it's merits demerits and applications. [8]
   b) An ac LVDT has the following data:
   Input = 6.3 V, Output = 5.2 V, range ± 0.5 in. Determine
   (i) Calculate the output voltage vs Core position for a core moment going from + 0.45 in. to – 0.30 in.
   (ii) The output voltage when the core is -0.25 in. from the centre [8]

7. a) With neat sketch explain the measurement of Velocity. [8]
   b) Explain the measurement of force using photoelectric Transducer. [8]

Code No: **RT42042** **R13** **Set No. 3**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) What are the different types of Digital Voltmeter? [4]
   b) Formulate an equation for the measured value of total harmonic distortion. [3]
   c) What are the standard specifications of CRO? [4]
   d) What precautions are required in using bridges? [4]
   e) Explain the construction of thermocouple. [3]
   f) Differentiate between a sensor and a Transducer. [4]

PART–B *(3x16 = 48 Marks)*

2. a) What are the different types of errors in measurement? Explain. [8]
   b) Describe the working of a series thermos couple type ammeter with schematic block Diagram. [8]

3. a) Define waveform analyzer and explain in detail about frequency selective type wave analyzer with block diagram. [8]
   b) What are the applications of a Spectrum analyzer? [8]

4. a) Draw the internal structure of CRT and list its functions. [8]
   b) Explain the frequency and phase measurement using Lissajous figures. [8]

5. a) Discuss in detail about the principle of Q meter. [8]
   b) In the case of a Schering Bridge, arm AC has R=4.7 kΩ; Arm CD has unknown elements. Arm BD has C=0.1 μF; Arm AB=4.7 kΩ is shunt with 1μF. Determine values of components is the arm CD. [8]

6. a) Explain about Thermistors and Sensistors for the measurement of Temperature. [8]
   b) A Thermistor has a temperature coefficient of resistance of -0.04 over a temperature range of 20^oC to 60^oC. Find the resistance of the thermistor at 35^oC if the resistance of the thermistor at 25^oC is 100 ohm. [8]

7. a) Briefly explain the working principles and measurement of force. [8]
   b) Explain the working of a Multi channel DAS with block diagram. [8]

Code No: **RT42042** **R13** **Set No. 4**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

(Electronics and Communications Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

*****

PART–A *(22 Marks)*

1. a) Compare static and dynamic characteristics of measurement systems. [4]
   b) How does a wave analyzer functionally differ from a spectrum analyzer? [3]
   c) What are the features of CRT? [4]
   d) List the factors that cause error in Q meter. [4]
   e) Explain the characteristics of Thermistors. [3]
   f) Explain the characteristics of DAS. [4]

PART–B *(3x16 = 48 Marks)*

2. a) Define the following terms:
   (i) Linearity (ii) Sensitivity (iii) Repeatability (iv) Accuracy [8]
   b) A basic D' Arsonval moment with a full scale deflection of 50 μA and an internal resistance of 1800 Ω is available. It is to be converted into a 0-1 V, 0-5 V, 0-25 V and 0-225 V multi range voltmeter using individual multipliers for each range. Calculate the values of the individual resistors. [8]

3. a) Discuss the frequency range of different types of signal analyzers. [8]
   b) Sketch and explain in detail about the Spectrum analyzer. [8]

4. a) With block diagram and various waveforms at each block, Explain the operation of sampling oscilloscope [8]
   b) List the principle of secondary emission ratio. [8]

5. a) Explain Anderson bridge with vector diagram and also derives balance Equation. [8]
   b) How the unknown frequency is measured using Wein's bridge method? [8]

6. a) Explain how the piezoelectric transducer can be used to measure force and pressure. [8]
   b) Explain the working of bonded strain gauge for the measurement of force. [8]

7. a) With neat sketch explain the principle of operation of Displacement measurement. [8]
   b) A capacitive Transducer has a plate separation of 0.01mm. It's capacitance under static condition is 10pF.If the change in capacitance as displacement Transducer is accurately measured to be +1pF, Evaluate the displacement. [8]

Code No: **RT42042** **R13** **Set No. 1**

IV B.Tech II Semester Regular Examinations, April/May – 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Give a classification of voltmeters [4]
   b) Distinguish between spectrum analyzer and harmonic distortion analyzer [4]
   c) Explain The concept of Triggered Sweep CRO along with circuit diagram [3]
   d) List out the different Limitations of Wheatstone's Bridge in detail [4]
   e) Draw the circuit diagram of Photo Transistor and explain its output characteristics [3]
   f) Explain the concept of Data acquisition systems in detail [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain the following terms in detail
   (i) Accuracy (ii) Resolution (iii) Precision (iv) Expected value [8]
   b) The following values are obtained from the measurements of the value of a resistor:147.2Ω, 147.4Ω, 147.9Ω, 147.1Ω, 147.5Ω, 147.6Ω, 147.4Ω, 147.6Ω, 147.5Ω. Calculate a) Arithmetic mean b) Average deviation c) Standard Deviation [8]

3. a) What is AF oscillators and explain its operation along with circuit diagram. [8]
   b) Draw the circuit diagram of Digital Fourier Analyzers and explain its operation. [8]

4. a) Explain the Measurement procedure of Lissajous patterns with one example [8]
   b) Explain the principle and working of a storage oscilloscope. [8]

5. a) Explain the operation of Maxwell's Bridge and derive the condition for balance of a Bridge. [8]
   b) In the case of Hay's Bridge one arm has resistance of 10KΩ .Another arm has a resistance of 6.7KΩ. The third arm 8KΩ in series with a capacitor of 0.5μF. Determine the values of the elements Rx and Lx in the fourth arm. [8]

6. a) Explain the following terms in detail
   (i) Thermistors (ii) Sensistors. [8]
   b) What is the difference between photo-emissive, photo-conductive and photovoltaic transducers? [8]

7. a) With the help of a neat sketch explain the principle and working of Electromagnetic Flow meter. What are the advantages and Limitations of this Method? [8]
   b) Briefly explain the working principles and measurement of force by any two nonelectric techniques? [8]

Code No: **RT42042** **R13** **Set No. 2**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Explain the procedure how to find Errors in Measurement with example [4]
   b) List out the difference between fixed frequency and variable AF oscillator in detail. [3]
   c) Define deflection sensitivity of a CRT? [4]
   d) Define Quality factor and give the expressions for the inductive and capacitive Quality factors. [4]
   e) Explain Primary and secondary Transducers [3]
   f) Explain any one of the method for the measurement of humidity? [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain the following terms in detail
   (i) speed of response (ii) Fidelity (iii) Lag and Dynamic error. [8]
   b) List out different AC voltmeters and explain the working of any one voltmeter in detail. [8]

3. a) Draw the circuit diagram of Sweep generator and explain its operation in detail [8]
   b) Define a wave analyzer and classify them. Explain the working of a Resonant Wave Analyzer. [8]

4. a) Explain the concept of Storage oscilloscope along with circuit diagram [8]
   b) Draw the circuit diagram of Sampling oscilloscope and explain its operation n detail. [8]

5. a) Draw the circuit diagram of Schering's Bridge and explain the operation of it. [8]
   b) Explain the "parallel-connection" method of using Q-meter and Obtain the expressions for resistance, reactance and Q factor. [8]

6. a) Derive the expression for Gauge factor of a strain Gauge. [8]
   b) A Thermistor has a resistance of 3980 Ω at the ice point(0^0 C) and 749Ω at 50^0 C. The resistance Temperature relationship is $R_T = aR_0e^{b/T}$. Find the values of a and b. Calculate the resistance to be measured in case the temperature varies from 40^0C to 100^0C. [8]

7. a) A Barium Titanate pickup has the dimensions of 5mmX5mmX1.25mm. The acting force is 5N. The charge sensitivity of the material is 150pc/N and permittivity is $12.5X10^{-9}$F/m. If the modulus of elasticity of material is $12X10^6N/m^2$, calculate the strain, charge and capacitance. [8]
   b) What are the two types of anemometer available for liquid flow measurement? Explain the principle and operation of Hotwire Anemometer. [8]

Code No: **RT42042** **R13** **Set No. 3**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Draw the series type Ohmmeter and explain its operation [4]
   b) Draw the Basic wave analyzer and explain its operation [4]
   c) List out the different Futures of CRT in detail [3]
   d) Derive the balance condition of Bridge. [4]
   e) List out difference between active and passive transducer in detail [4]
   f) Explain piezo electric effect. [3]

PART–B *(3x16 = 48 Marks)*

2. a) Two ammeters are joined in series in a circuit carrying 100 A. one ammeter has a resistance of 10000 ohm shunted by 0.10 ohm while the other ammeter has a resistance of 150 ohm shunted by 0.02ohm. if the shunts are interchanged what would be the readings of the instruments? [8]
   b) Draw the Sketch and explain the principle and operation of Thermocouple type Ammeter. [8]

3. a) Explain the operation of Harmonic Distortion Analyzer. [8]
   b) What is Heterodyning and explain the use of Heterodyning in spectrum analyzer along with its circuit diagram. [8]

4. a) Draw the circuit diagram of Dual Trace oscilloscope and explain its operation in detail. [8]
   b) Explain various types of probes used for CRO. [8]

5. a) Draw the circuit of Wien Bridge and derive the expression for bridge balance. [8]
   b) In the case of a Schering Bridge, arm Ac has R=4.7kΩ. Arm CD has unknown elements. Arm BD has C=0.1μF Arm AB=4.7KΩ is shunt with 1MF. Determine Values of components is the arm CD. [8]

6. a) What is Thermistor and explain its importance along with advantages of it [8]
   b) Draw the Linear variable differential Transducer and explain its operation in detail. [8]

7. a) Define Humidity and give a classification. Explain the procedure for the measurement of humidity. [8]
   b) Explain in detail about the stroboscope for the measurement of speed. [8]

Code No: **RT42042** **R13** **Set No. 4**

IV B.Tech II Semester Regular Examinations, April/May - 2017

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1. a) Define and derive static and Dynamic error [4]
   b) Explain the concept of Digital Fourier Analyzer in detail [4]
   c) Explain the basic principal of CRO in detail [3]
   d) List out the different Precautions to be taken when using a Bridge with one example [4]
   e) Explain the different Advantages of Electrical Transducers in detail [4]
   f) How does pirani gauge differ from thermocouple gauge in operating principle [3]

PART–B *(3x16 = 48 Marks)*

2. a) List out different DC voltmeters and explain any one voltmeter in detail [8]
   b) A Voltmeter having a sensitivity of 30k/V reads 80V on a 100V scale, when connected across an unknown resistor. The current through the resistor is 2mA. Calculate the % of error due to loading effect. [8]

3. a) Draw the block diagram of a signal generator and explain its operation. [8]
   b) Explain the concept of Wien's Bridge method of Harmonic Distortion Analyzer along with circuit diagram. [8]

4. a) Explain the Vertical amplifier section of CRT along with Block diagram. [8]
   b) An electrically deflected CRT has a final Anode voltage of 2000V and parallel deflecting plates of 1.5cm long and 5mm apart. If the screen is 50cm from the centre of the deflecting plates, Find a) Beam speed b) Deflection sensitivity of the tube and c) Deflection factor of the tube. [8]

5. a) Draw the Anderson Bridge and derive the expression for the unknown inductance. What are the salient features of this bridge circuit? [8]
   b) Quantitatively explain about a bridge which is used for the measurement of the High Quality factor values. [8]

6. a) Explain the Resistive position Transducer along with circuit diagram. [8]
   b) List out different types of Strain Gauges used Transducer and explain any one in detail. [8]

7. a) Define moisture and explain a method to measure it. [8]
   b) Explain the working principle of an accelerometer. [8]

Code No: R163204D **R16** SET - 1

III B. Tech II Semester Regular Examinations, April/May - 2019

BIO-MEDICAL ENGINEERING

(**Common to** Electronics and Communication Engineering,
Electronics and Instrumentation Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	Draw the typical waveform of action potential generated by cardiovascular system.	[2M]
	b)	Define the term 'linearity'.	[2M]
	c)	Draw the Einthoven triangle.	[2M]
	d)	List the types of defibrillators.	[3M]
	e)	What is bio-telemetry?	[3M]
	f)	What are the different shock hazards from electrical equipment?	[2M]

PART -B

2.	a)	What is meant by biometrics? And what are the important factors that are to be considered in medical instrumentation system?	[7M]
	b)	What are the basic objectives of any instrumentation system? Explain.	[7M]
3.		Write notes on	
	a)	Metal plate electrode	[7M]
	b)	Adhesive type electrode	[7M]
4.	a)	What are the different ECG lead configurations? Explain.	[7M]
	b)	Draw the schematic of ECG recorder by showing all building blocks.	[7M]
5.	a)	Explain the operation of Spirometer.	[7M]
	b)	What are the advantages and disadvantages of ventricular asynchronous pacemakers? Explain.	[7M]
6.	a)	Draw the block diagram of a typical radio telemetry single channel system and explain.	[7M]
	b)	Explain how bioelectrical variables are transmitted?	[7M]
7.		Write notes on the following:	
	a)	Arrhythmia monitor	[7M]
	b)	Artifact detection.	[7M]

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Code No: R163204D **R16** SET - 2

III B. Tech II Semester Regular Examinations, April/May - 2019

BIO-MEDICAL ENGINEERING

(**Common to** Electronics and Communication Engineering,
Electronics and Instrumentation Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	Write the typical values of amplitudes of following waves: (i) P wave (ii) R wave	[2M]
	b)	Draw the schematic of suction cup electrode.	[2M]
	c)	Draw the typical ECG signal and label it.	[2M]
	d)	What is meant by fibrillation?	[3M]
	e)	List the components of biotelemetry system.	[3M]
	f)	What are the physiological effects of electrical current?	[2M]

PART -B

2.	a)	Give the block diagram of a man-instrument system and explain about each component.	[7M]
	b)	What are the major physiological systems of the body? Briefly explain about each system.	[7M]
3.	a)	What are the different types of transducers that are used for biomedical applications?	[7M]
	b)	Explain the working principle of pO_2 electrode.	[7M]
4.	a)	Draw the Einthoven triangle and explain.	[7M]
	b)	What is vector cardiograph? Explain.	[7M]
5.	a)	What are the different types of pacemaker batteries? Explain briefly.	[7M]
	b)	What is the necessity of ventilators? Explain.	[7M]
6.	a)	Draw the block diagram of radio telemetry system and explain its operation.	[7M]
	b)	Draw the block diagrams of FDM and TDM systems that are used in biotelemetry.	[7M]
7.		Write notes on the following:	
	a)	Doppler ultrasonic blood flow meter	[7M]
	b)	Physiological effects of electrical current	[7M]

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Code No: R163204D **R16** SET - 3

III B. Tech II Semester Regular Examinations, April/May - 2019

BIO-MEDICAL ENGINEERING

(**Common to** Electronics and Communication Engineering,
Electronics and Instrumentation Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	The human body is divided into four physiological systems. What are those systems?	[2M]
	b)	Give the list of different chemical electrodes.	[2M]
	c)	Give the Nernst equation.	[2M]
	d)	What is meant by defibrillation?	[3M]
	e)	What are the limitations of biotelemetry?	[3M]
	f)	What is the application of bio-potential amplifier?	[2M]

PART -B

2.	a)	What are the problems encounter in measuring a living system? Explain.	[7M]
	b)	What is meant by resting and actions potentials?	[7M]
3.	a)	Explain about the pH electrode.	[7M]
	b)	Draw the equivalent circuit of biopotential-electrode interface and explain.	[7M]
4.	a)	What are the different respiratory therapy equipment? Explain.	[7M]
	b)	Explain how blood pressure is measured?	[7M]
5.	a)	Compare external and internal pacemakers.	[7M]
	b)	Give the classification of pacemakers based on the modes of operation.	[7M]
6.	a)	Draw the schematic of Hartley type FM transmitter for the transmission of ECG, EEG and EMG signals.	[7M]
	b)	Write notes on ultrasonic diathermy.	[7M]
7.		Write notes on the following:	
	a)	Method of accident prevention.	[7M]
	b)	Need for isolated power distribution system.	[7M]

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Code No: R163204D **R16** SET - 4

III B. Tech II Semester Regular Examinations, April/May - 2019

BIO-MEDICAL ENGINEERING

(**Common to** Electronics and Communication Engineering,
Electronics and Instrumentation Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	Draw the cross-section of a depolarized cell.	[2M]
	b)	Give the list of different microelectrodes.	[2M]
	c)	Draw the lead aVR configuration.	[2M]
	d)	What is meant by pacemaker?	[3M]
	e)	List any three applications of biotelemetry.	[3M]
	f)	List the methods of accident prevention in hospitals.	[2M]

PART -B

2.	a)	What is meant by polarization, depolarization and repolarization? Explain with relative sketches.	[7M]
	b)	Give the waveform of action potential and mention various regions and potentials.	[7M]
3.	a)	Explain about metal microelectrode.	[7M]
	b)	What are the different types of surface electrodes? Explain briefly.	[7M]
4.	a)	Draw the input circuit of modern ECG machine with buffer amplifier.	[7M]
	b)	Explain the working of blood flow meter.	[7M]
5.	a)	What are the types of defibrillators? Explain.	[7M]
	b)	What is the necessity of pacemaker? Explain the working principle of it.	[7M]
6.	a)	What are the components of biotelemetry system? Explain each briefly.	[7M]
	b)	What is the difference between MRI and CT scan? Explain.	[7M]
7.		Write notes on the following:	
	a)	Micro shocks and macro shocks	[7M]
	b)	Biopotential amplifier.	[7M]

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Code No: R163204D **R16** SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2019

BIO-MEDICAL ENGINEERING

(Common to Electronics and Communication Engineering, Electronics and Instrumentation Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A **(14 Marks)**

1.	a)	Write a short note on different types of classification in biomedical instrumentation.	[2M]
	b)	Define Active Transducer and Passive Transducer.	[2M]
	c)	Mention the upper and lower respiratory organs.	[2M]
	d)	What is a biomaterial?	[3M]
	e)	What is meant by CT scan?	[3M]
	f)	Define various parts of color printer.	[2M]

PART –B **(56 Marks)**

2.	a)	Write about Electro Cardiogram (ECG) in brief.	[7M]
	b)	Explain briefly about Resting potentials and Action potentials.	[7M]
3.	a)	Discuss about the equivalent circuit of electrode-electrolyte interface used in the measurement of bioelectric potentials.	[7M]
	b)	Define transducer and discuss its principles.	[7M]
4.	a)	Explain the cardiovascular system in human body.	[7M]
	b)	Discuss the measurement of blood pressure by auscultatory method.	[7M]
5.	a)	Explain about different patient-monitoring displays.	[7M]
	b)	What are pacemakers? Explain in detail.	[7M]
6.	a)	What are the principals of ultrasonic measurement? Explain the various modes of ultrasonic transmission.	[7M]
	b)	Describe the processing of X-ray film.	[7M]
7.	a)	Write a short note on bioelectric potential amplifier and discuss the requirements of an ideal bioelectric potential amplifier.	[7M]
	b)	What are the physiological effects of electrical current? Explain.	[7M]

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Code No: RT32045A | R13 | SET - 1

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018

BIO-MEDICAL ENGINEERING

(ECE and EcomE)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1	a)	What are the basic objectives of any instrumentation system?	[4M]
	b)	Discuss the electrode theory.	[4M]
	c)	What are the common accessories used in respiratory equipment?	[3M]
	d)	Draw any one ECG lead configuration.	[4M]
	e)	What is the use of Hemodialysis machine?	[4M]
	f)	What is the use of nebulizers and aspirators?	[3M]

PART -B

2	a)	Draw the block diagram of man-instrument system and explain.	[8M]
	b)	What are the difficulties encountered in biomedical signal acquisition and analysis? Explain.	[8M]
3	a)	Discuss about the Transducers with Digital Output	[8M]
	b)	Draw the diagram of floating type skin surface electrode and explain.	[8M]
4	a)	Describe the ECG recorder principles.	[8M]
	b)	Describe the working principle of magnetic blood flow meter.	[8M]
5	a)	Describe the anatomy of vision.	[8M]
	b)	Distinguish between internal and external pacemakers.	[8M]
6	a)	What is ultrasonic imaging? Explain.	[8M]
	b)	Write notes on radio isotope instruments.	[8M]
7	a)	Discuss about Isolated Power Distribution System	[8M]
	b)	Write short notes on different display monitors	[8M]

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Code No: RT32045A | R13 | SET - 2

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018

BIO-MEDICAL ENGINEERING

(ECE and EcomE)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

*****

PART –A

1	a)	What are the different biomedical transducers?	[3M]
	b)	What is polarization?	[4M]
	c)	Draw the typical electrode placement in EEG measurement.	[3M]
	d)	List the color codes used for ECG electrodes?	[4M]
	e)	What is the difference between internal and external pacemakers?	[4M]
	f)	List the methods of accident prevention.	[4M]

PART -B

2	a)	What are resting and action potentials? Explain.	[8M]
	b)	Illustrate the cross section of a depolarized cell.	[8M]
3	a)	Discuss in detail about Active transducers	[8M]
	b)	Write notes on pH electrode.	[8M]
4	a)	Write notes on lung volumes and capacities.	[8M]
	b)	Describe the mechanism of respiration.	[8M]
5	a)	What are the different patient monitoring equipment? Explain.	[8M]
	b)	Explain how the hospital is organized for patient-care monitoring.	[8M]
6	a)	Explain how telemetry is used for ECG measurements during exercise.	[8M]
	b)	Write notes on MRI.	[8M]
7	a)	Explain the working principle of bio-potential amplifiers.	[8M]
	b)	Explain how the isolated power distribution system is used to prevent shock hazards.	[8M]

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Code No: RT32045A | R13 | SET - 3

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018

BIO-MEDICAL ENGINEERING

(ECE and EcomE)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

*****

PART –A

1	a)	List the physiological systems of the body.	[3M]
	b)	Define the piezoelectric effect.	[3M]
	c)	What is the use of stimulators?	[4M]
	d)	What are the different types of ECG recorders?	[4M]
	e)	Define fibrillation.	[4M]
	f)	Define macro-shock.	[4M]

PART -B

2	a)	What are the problems encountered in measuring a living system? Explain.	[8M]
	b)	What are the static characteristics of medical instrument system?	[8M]
3	a)	What are the basic types of biopotential electrodes? Explain.	[8M]
	b)	Explain the basic configuration of reference electrode.	[8M]
4	a)	What are the characteristics of blood flow? Explain.	[8M]
	b)	Describe the ECG recorder principles.	[8M]
5	a)	Distinguish between internal and external pacemakers.	[8M]
	b)	Explain the operation of DC defibrillator circuit.	[8M]
6	a)	What are the ultrasonic applications of therapeutic use?	[8M]
	b)	What is the need for biotelemetry? Explain.	[8M]
7	a)	What are the methods of prevention of shock hazards? Explain.	[8M]
	b)	What are the components of biotelemetry system? Explain.	[8M]

*****

Code No: RT32045A | R13 | SET - 4

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018

BIO-MEDICAL ENGINEERING

(ECE and EcomE)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

*****

PART –A

1	a)	Define the term biometrics.	[3M]
	b)	List different pressure transducers.	[3M]
	c)	What is plethysmography?	[4M]
	d)	What is the use of Einthoven triangle?	[4M]
	e)	What is diathermy?	[4M]
	f)	What is the difference between micro shock and macro shock?	[4M]

PART -B

2	a)	What are the elements of man-instrument system? Explain.	[8M]
	b)	Describe the characteristics of biosignals.	[8M]
3	a)	Write notes on blood gas electrodes.	[8M]
	b)	Explain the term transducer and further explain about Transduction Principles.	[8M]
4	a)	What are the different types of ECG recorders? Explain.	[8M]
	b)	Explain the working principle of ventilators.	[8M]
5	a)	Distinguish between ac and dc defibrillation.	[8M]
	b)	Describe the working principle of tonometer.	[8M]
6	a)	Explain how telemetry is used for emergency patient monitoring.	[8M]
	b)	Explain the principle of ultrasonic measurement.	[8M]
7	a)	What are the physiological effects of electrical current?	[8M]
	b)	What are the methods of prevention of shock hazards? Explain.	[8M]

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Code No: RT32045A **R13** SET - 1

III B. Tech II Semester Supplementary Examinations, April/May - 2019

BIO-MEDICAL ENGINEERING

(Common to Electronics and Communication Engineering, Electronics and Computer Engineering)

Time: 3 hours Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

*****

PART –A

1	a)	How the resting potential is measured?	[4M]
	b)	Write note on pulse sensors	[4M]
	c)	Draw Einthoven triangle.	[3M]
	d)	Write about Myo electric arm	[4M]
	e)	What is the use of MRI?	[3M]
	f)	What is micro shock?	[4M]

PART -B

2	a)	What are the basic objectives of any medical instrumentation system? Explain.	[8M]
	b)	Explain the following terms: i) Resting potential ii) Action potential	[8M]
3	a)	What are disposable electrodes? Explain.	[8M]
	b)	Explain the principle of operation of P_{O_2} electrode.	[8M]
4	a)	What is the use of spirometry? Explain.	[8M]
	b)	Explain the working principle of blood flow meter.	[8M]
5	a)	What is the use of nebulizers? What is the functional difference with respect to respirators?	[8M]
	b)	Discuss the tonometer for eye pressure measurement	[8M]
6	a)	What is the principle of ultrasonic imaging?	[8M]
	b)	What is the need for telemetry in bio-medical instrumentation?	[8M]
7	a)	What are different shock hazards? Explain different methods of prevention.	[8M]
	b)	Explain how the physiological effects of electric current are.	[8M]

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Code No: RT32045A | R13 | SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2018

BIO-MEDICAL ENGINEERING

(Electronics and Communication Engineering & Electronics and Computer Engineering)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1	a)	What is the use of bioamplifier?	[4M]
	b)	Write the Nernst equation.	[4M]
	c)	What are the different bio-chemical electrodes?	[3M]
	d)	Draw reference electrode basic configuration.	[4M]
	e)	What is the use of de- fibrillator?	[3M]
	f)	What is macro shock?	[4M]

PART -B

2	a)	What is a man-instrument system? Explain.	[8M]
	b)	Discuss the Bioelectric potentials of EMG	[8M]
3	a)	Explain the basic transducer principle with an example	[8M]
	b)	Give the comparison of internal and external bio-potential electrodes.	[8M]
4	a)	Explain various tests and instrumentation for breathing.	[8M]
	b)	Explain the measurement process of lung function.	[8M]
5	a)	What are the elements of intensive-care unit? Explain.	[8M]
	b)	Discuss about the clinical laboratory instruments	[8M]
6	a)	What is the use of telemetry for ECG measurements? Explain.	[8M]
	b)	Write notes on CAT.	[8M]
7	a)	What is the need for isolated power distribution system? Explain.	[8M]
	b)	What are the different types of recorders? Explain.	[8M]

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Code No: RT32045A | R13 | SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2019

BIO-MEDICAL ENGINEERING

(Common to Electronics and Communication Engineering, Electronics and Computer Engineering)

Time: 3 hours | Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

*****

PART –A (22 Marks)

1	a)	What is ECG? Draw the waveform and mention its components.	[3M]
	b)	Discuss the electrode theory.	[4M]
	c)	Write about plethysmography.	[4M]
	d)	Draw the block diagram of patient care monitoring system.	[3M]
	e)	What are the principles of Ultrasonic Measurement?	[4M]
	f)	Differentiate between micro shock and macro shock.	[4M]

PART –B (48 Marks)

2	a)	Explain the elements of man-instrument system.	[8M]
	b)	Describe the characteristics of bio-signals.	[8M]
3	a)	What are Biochemical Transducers? Explain.	[8M]
	b)	Explain the applications of pulse sensors.	[8M]
4	a)	Describe the operation of ultrasonic blood flow meter.	[8M]
	b)	Explain the different heart sounds and how to measure the heart sounds?	[8M]
5	a)	Explain about the Patient Monitoring Displays.	[8M]
	b)	Write about the Elements of Intensive-Care Monitoring.	[8M]
6	a)	Explain the working principle of CT scan with neat block diagram.	[8M]
	b)	Compare the CT scan visualization method with conventional method.	[8M]
7	a)	Explain about the shock hazards of electrical equipment.	[8M]
	b)	Explain Methods of accident prevention.	[8M]

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH - I SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, AUG./SEP. - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

Branch	17-08-2022 (Wednesday)	22-08-2022 (Monday)	24-08-2022 (Wednesday)	26-08-2022 (Friday)	29-08-2022 (Monday)	01-09-2022 (Thursday)	03-09-2022 (Saturday)
Subjects	**ENGLISH-I (R161101)**	**ENGINEERING DRAWING (R161113)** (Com to ECE,EIE, E Com E) **ENGINEERING DRAWING (R161112)** (Com to CSE, IT, Agri E)	**APPLIED CHEMISTRY (R161106)** (Only EEE) **APPLIED PHYSICS (R161104)** (Com. to ECE,CSE, IT, EIE, ECom.E) **ENGINEERING PHYSICS (R161103)** (Only Agri E) **ENGINEERING CHEMISTRY (R161105)** (Com. to Aero E,Bio-Tech, Chem E, CE, Min E, Metal E, PE, PChem.E, Auto E, ME)	**MATHEMATICS – II (R161109)** (Mathematical Methods) (Com to CSE, IT, Agri E) **MATHEMATICS – II (R161110)** (Numerical Methods and Complex variables) (Com to ECE, EIE, ECom E) **ENGINEERING MECHANICS (R161111)** (Com. to Aero E, Auto E, Bio-Tech, Chem E, CE, EEE, ME, Metal E, Min E, PChem E, PE)	**COMPUTER PROGRAMMING (R161107)** (Com. to ECE, Aero E, Auto E, Bio-Tech, Chem E, CE, CSE, IT, EIE, EEE, ME, Metal E, Min E, PChem E, PE, ECom E)	**ENVIRONMENTAL STUDIES (R161108)** (Com. to Agri E, Auto E, Bio-Tech, Chem E, CE, EEE,ME, Metal E, Min E, PChem E, PE, Aero E)	**MATHE MATICS-I (R161102)**

NOTE:

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ii. EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

iii. THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE TIME TABLE IMMEDIATELY.

DATE: 27-07-2022

Controller of Examinations

I B.TECH I SEMESTER (R19)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, AUG./SEP. - 2022

T I M E T A B L E

TIME: 10.00 AM to 01.00 PM

Branch	17-08-2022 (Wednesday)	22-08-2022 (Monday)	24-08-2022 (Wednesday)	26-08-2022 (Friday)	29-08-2022 (Monday)	01-09-2022 (Thursday)
Subjects	**ENGLISH (R19HS1101)** (Com. to EEE, ECE, CSE, EIE, IT) **MATHEMATICS-II (R19BS1102)** (Com. to CE, ME, Chem E, Auto E, Min E, Pet E, Agri E)	**MATHEMATICS-I (R19BS1101)** (Com. to CE, EEE, ME, ECE, CSE, Chem E, EIE, IT, Auto E, Min E, Pet E, Agri E)	**APPLIED CHEMISTRY (R19BS1106)** (Com to EEE, ECE, CSE, EIE, IT) **ENGINEERING PHYSICS (R19BS1108)** (Com. to CE,ME, Agri E) **ENGINEERING CHEMISTRY (R19BS1110)** (Com. to Auto E, Min E, Pet E)	**SURVEYING AND LEVELING (R19AG1101)** (Only Agri E) **ENGINEERING MECHANICS (R19ES1104)** (Com. to CE, Auto E, Min E)	**PROGRAMMING FOR PROBLEM SOLVING USING C (R19ES1101)** (Com. to EEE, ME, ECE, Chem E, EIE, Auto E, Min E, Pet E) **FUNDAMENTALS OF COMPUTER SCIENCE (R19ES1112)** (Com. to CSE, IT)	**ENGINEERING DRAWING (R19ES1103)** (Com. to CE,EEE,ME, ECE,CSE, IT, Agri E Chem E, EIE, Pet E)

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DATE: 27-07-2022

Controller of Examinations

I B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B. TECH I SEMESTER (R20 REGULATION) SUPPLEMENTARY EXAMINATIONS, AUG./SEP. - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

Branch	17-08-2022 (Wednesday)	22-08-2022 (Monday)	24-08-2022 (Wednesday)	26-08-2022 (Friday)	29-08-2022 (Monday)	01-09-2022 (Thursday)
Subjects	Communicative English **(R201102)**	Mathematics-I **(R201101)**	Programming for Problem Solving Using C **(R201110)** (Except CE) Engineering Geology **(R201105)** (Only for CE)	Engineering Drawing **(R201104)** (Comm to CE,ME,ECE,PE,EIE,FE) Engineering Drawing & Design **(R201111)** (Only for EEE) Principles of Soil Science and Agronomy **(R201127)** (Only for Agri E) Design Drawing and Visualization **(R201135)** (Only for CSD)	Applied Physics **(R201117)** (Comm to CSE, CSE-CS&T, IT , CSE-CS, CSE-IOT&CS incl BCT, CSE-CS&BS, CSE-IOT) Engineering Mechanics **(R201124)** (Com. to AME, Min E) Fundamental Chemistry **(R201130)** (Only for FE) Engineering Physics **(R201103)** (Com. to CE,ME,Agri E, Phar. E)	Mathematics-II **(R201109)** (Only for EEE) Engineering Chemistry **(R201123)** (Com. to AME, Min E, PE) Engineering Chemistry **(R201134)** (Only for Phar. E) Applied Chemistry **(R201115)** (Comm to ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AIDS, CSD)

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DATE: 27-07-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - II SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, AUGUST/SEPTEMBER - 2022

T I M E T A B L E

TIME: 02.00 PM TO 05.00 PM

Branch	29.08.2022 (Monday)	30.08.2022 (Tuesday)	01.09.2022 (Thursday)	02.09.2022 (Friday)
Civil Engineering (01)	Estimation Specificatin & Contracts (R1642011)	Construction Technology & Management (R1642012)	Prestressed Concrete (R1642013)	**Elective-III**: Bridge Engineering (R164201A)/Soil Dynamics and Foundations (R164201B)/Solid and Hazards waste management (R164201C)/Water Resource System Planning (R164201D)/UrbanTransportation Planning Engineering (R164201E)
Electrical & Electronics Engineering (02)	Digital Control Systems (R1642021)	HVDC Transmission (R1642022)	Electrical Distribution Systems (R1642023)	**Elective-I**: High Voltage Engineering (R164202A)/Flexible Alternating Current Transmissin Systems (R164202B)/Power Systems Reforms (R164202C)
Mechanical Engineering (03)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Unconventional Machining Processes (R1642032)	Automobile Engineering (R1642033)	**Elective-III**: Thermal Equipment Design (R164203A)/Non Destructive Evaluation (R164203B)/Quality and Reliability Engineering (R164203C)
Electronics & Communication Engineering (04)	Cellular Mobile Communications (R1642041)	Electronic Measurements and Instrumentation (R1642042)	Satellite Communications (R1642043)	**Elective-III**: Digital IC Design(Common to ECE & E.I.E) (R164204B)/Operating Systems (R164204C)/Wireless Sensors & Networks(R164204A)
Computer Science & Engineering (05)	Distributed Systems (Common to CSE, IT) (R1642051)	Management Science (Common to CSE, IT) (R1642052)	Machine Learning (R1642053)	**Elective-III**: Operation Research (R164205C)/Artificial Neural Networks(Common to CSE, IT) (R164205B)/Concurrent and Parallel Programming(Common to CSE, IT) (R164205A)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - II SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, AUGUST/SEPTEMBER - 2022

T I M E T A B L E

TIME: 02.00 PM TO 05.00 PM

Branch	29.08.2022 (Monday)	30.08.2022 (Tuesday)	01.09.2022 (Thursday)	02.09.2022 (Friday)
Electronics & Instrumentation Engineering (10)	Industrial Automation (R1642101)	Data Communications (R1642102)	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Digital IC Design (Common to ECE & E.I.E) (R164204B)/Calibration & Standards (R164210A)/Micro Electro Mechanical Systems (MEMS) (R164210B)
Information Technology (12)	Distributed Systems(Common to CSE, IT) (R1642051)	Management Science(Common to CSE, IT) (R1642052)	Management Information System (R1642121)	**Elective III**: Cyber Security (R164212A)/Software Quality Assurance (R164212B)/Concurrent and Parallel Programming (Common to CSE, IT) (R164205A)/Artificial Neural Networks(Common to CSE, IT)(R164205B)
Electronics & Computer Engineering (19)	Automata Theory & Compiler Design (R1642191)	**Elective IV** : Real Time Operating Systems (R164219D)/Network Security & Cryptography (R164219E)/	Embedded Systems (Common to EIE & E.Comp.E) (R1642103)	**Elective III**: Language Processors (R164219A)/EMI/EMC (R164219B)/Data Ware Housing & Data Mining (R164219C)/Wireless Sensors & Networks(R164204A)
Aeronoltical Engineering (21)	Rockery and Space Mechanics (R1642211)	Mechanics of Composites (R1642212)	Aerospace Materials (R1642213)	**Elective III**: Avionics (R164221A)/Propellant Technology (R164221B)/Aero Elasticity (R164221C)
Automobile Engineering (24)	Automotive Control Systems (R1642241)	Vehicle Maintenance (R1642242)	Product Design and Assembly Automation (R1642243)	**Elective III**: Automotive Safety (R164224A)/Automotive Manufacturing Systems (R164224B)/Automobile Air Conditioning (R164224C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - II SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, AUGUST/SEPTEMBER - 2022

T I M E T A B L E

TIME: 02.00 PM TO 05.00 PM

Branch	29.08.2022 (Monday)	30.08.2022 (Tuesday)	01.09.2022 (Thursday)	02.09.2022 (Friday)
Mining Engineering (26)	Production Planning and Control (Common to Mechanical and Mining) (R1642031)	Mine Economics & Investment (R1642261)	Mine Health and Safety Engineering (R1642262)	**Elective III**: Planning of Underground Metal Mining Projects (R164226A)/Planning of Underground Coal Mining Projects (R164226B)/Planning of Surface Mining Projects (R164226C)
Petroleum Engineering (27)	EOR Techniques (R1642271)	HSE & FE in Petroleum Industry (R1642272)	Petroleum Economics, Policies & Regulations (R1642273)	**Elective III** : Shale Gas Reservoir Engineering (R164227A)/Subsea Engineering (R164227B)/Reservoir Modelling & Simulation (R164227C)
Agricultural Engineering (35)	Design of Agricultural Machinery (R1642351)	Agricultural Extension Techniques and Business Managemet (R1642352)	Agro Industries and Bi-product Utilization (R1642353)	**Elective III** :GIS and Remote Sensing (R164235A)/Human Engineering and safety (R164235B)/Production Technology of Agricultural Machinery (R164235C)

i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.

ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

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Date: 18.08.2022

Controller of Examinations

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
CIVIL ENGINEERING (01-CE)	Mathematics -III **R2021011** (Except EEE,FE)	Strength of Materials-I **R2021012**	Fluid Mechanics **R2021013**	Surveying and Geometrics **R2021014**	Highway Engineering **R2021015**
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Mathematics – IV **R2021021**	Electronic Devices and Circuits **R2021022**	Electrical Circuit Analysis –II **R2021023**	DC Machines and Transformers **R2021024**	Electro Magnetic Fields **R2021025**
MECHANICAL ENGINEERING (03-ME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Production Technology **R2021033**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Kinematics of Machinery **R2021034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Random Variables and Stochastic Processes **R2021044** (Common to ECE,ECT)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE, CST, CSE (AIML),AI,DS,CSE(AIDS),CSE (CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Object Oriented Programming through C++ **R2021051** (Common to CSE,IT)	Operating Systems **R2021052** (Common to CSE,CST, IT,CS,IOTCSBT,IOT,CS)	Software Engineering **R2021053**
COMPUTER SCIENE & TECHNOLOGY (06)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CS BS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE (CS) CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT, CSE(CS),IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS), OITCSBT,IOT,CS)

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Electronic Measurements and Instrumentation **R2021101**
INFORMATION TECHNOLOGY (12-IT)	Mathematics -III **R2021011** (Except EEE,FE)	Discrete Mathematics and Graph Theory **R2021122**	Object Oriented Programming through C++ **R2021051** (Common to CSE, IT)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Database Management Systems **R2021121** (Common to IT,CSE(AIML), AI,DS,CSE(AIDS), AIDS,AIML)
ELECTRONICS & COMMUNICATION TECHNOLOGY (14)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems R2021043 (Common to ECE,EIE,ECT)	Random Variables and Stochastic Process **R2021044** (Common to ECE,ECT)
AUTO MOBILE ENGINEERING (24-AME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Thermodynamics **R2021241**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Components of Automobile Chassis **R2021242**
MINING ENGINEERING (26-MM)	Mathematics -III **R2021011** (Except EEE,FE)	Development of Mineral Deposits **R2021261**	Mine Surveying **R2021262**	Engineering and Economic Geology **R2021263**	Mineral Processing Technology **R2021264**
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics -III **R2021011** (Except EEE,FE)	Petroleum Geology **R2021271**	Fluid Mechanics for Petroleum Engineers **R2021272**	Heat Transfer Operations **R2021273**	Material and Energy Balances **R2021274**

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
AGRICULTURAL ENGINEERING (35-AGE)	Mathematics -III **R2021011** (Except EEE,FE)	Surveying and Leveling **R2021351**	Fluid Mechanics and Open Channel Hydraulics	Properties and Strength of Materials **R2021353**	Farm Power and Tractor Systems **R2021354**
CSE (Artificial Intelligence and Machine Learning) (42)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML), AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence) (43)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence **R2021431**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT, CSE(AIML), AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Data Science) (44)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Fundamentals of Data Science **R2021441**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence and Data Science)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CS,IOTCSBT,CSBS,IO	Introduction to Artificial Intelligence and Data Science **R2021451**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS	Database Management Systems **R2021121** (Common to IT,CSE(AIML),

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
(45)		T,AIDS,AIML)	(Comm to CSE(AIDS),AIDS)	,AIML)	AI,DS,CSE(AIDS), AIDS,AIML)
CSE (Cyber Security) (46)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS, OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
CSE (Internet of things and Cyber security including Block chain Technology) (47)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE(AIML),AI,DS,CSE(AIDS), CSE(CS),IOTCSBT,CSBS,IOT, AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
CSE (Computer Science and Business System) (48)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CS,IOTCSBT,CSBS, IOT,AIDS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Formal Languages & Automata Theory **R2021481**	Computer Organization& Architecture **R2021482**
CSE (Internet of Things)	Mathematics -III **R2021011**	Mathematical Foundations of Computer Science **R2021054** (Comm to	Data Structures **R2021061**	Operating Systems **R2021052**	Java Programming **R2021062**

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
(49)	(Except EEE,FE)	CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT ,AIDS,CS,AIML)	(Common to CST,CSE(CS)CS,OITCSBT,CSBS,IO T,CS)	(Common to CSE,CST,IT,CS,IOTCSBT,IOT)	(Comm to CST,CSE(CS),OITCSBT,IOT,CS)
FOOD ENGINEERING (51)	Probability and Statistics **R2021511**	Principles of Food Engineering -I **R2021512**	Mechanical Operations in Food Processing **R2021513**	Fluid Mechanics in Food Processing **R2021514**	Food Microbiology **R2021515**
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Data Science **R2021451** (Comm to CSE(AIDS),AIDS)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
PHARMACEUTICAL ENGINEERING (55)	Mathematics – III **R2021011** (Except EEE,FE) (Vector Calculus, Transforms and PDE)	Pharmacology **R2021551**	Material and Energy Balance Computations **R2021552**	Fluid Mechanics and Mechanical Unit Operations **R2021553**	Thermodynamics for pharmaceutical Engineers **R2021554**
CYBER SECURITY (59)	Mathematics -III **R2021011**	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS,	Data Structures **R2021061** (Common to	Operating Systems **R2021052** (Common to	Java Programming **R2021062**

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**
(59)	(Except EEE,FE)	(Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	(Comm to CST,CSE(CS)CS,OITCSBT, CSBS,IOT,CS)	(Comm to CSE,CST,IT,CSE(CS),IOTCSBT,IOT)	(Comm to CST,CSE(CS),OITCSBT,IOT,CS)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE (AIML),AI,DS,CSE(AIDS),CSE(CS), IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML),AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS ,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML) AI,DS,CSE(AIDS), AIDS,AIML)

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DATE: 02-02-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**	**05-03-2022 (Saturday)**
CIVIL ENGINEERING (01-CE)	Complex Variables and Statistical Methods **R1921011**	Strength of Materials-I **R1921012**	Fluid Mechanics **R1921013**	Surveying and Geometrics **R1921014**	Building Materials, Construction and Planning **R1921015**	Transportation Engineering-I **R1921016**
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Electrical Circuit Analysis - II **R1921021**	Electrical Machines-I **R1921022**	Electronic Devices and Circuits **R1921023**	Electro Magnetic Fields **R1921024**	Thermal and Hydro Prime movers **R1921025**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
MECHANICAL ENGINEERING (03-ME)	Vector Calculus & Fourier Transforms **R1921031**	Mechanics of Solids **R1921032** (Common to ME,AME)	Material Science & Metallurgy **R1921033**	Production Technology **R1921034**	Thermodynamics **R1921035** (Common to ME,AME)	Machine Drawing **R1921036**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Devices and Circuits **R1921041** (Common to ECE,EIE)	Switching Theory and Logic Design **R1921042** (Common to ECE,EIE)	Signals and Systems **R1921043** (Common to ECE,EIE)	Random Variables and Stochastic Processes **R1921044**	Object Oriented Programming through Java **R1921045**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Mathematical Foundations of Computer Science **R1921051**	Software Engineering **R1921052**	Python Programming **R1921053** (Common to CSE,IT)	Data Structures **R1921054** (Common to CSE,IT)	Computer Organization **R1921056** (Comm to CSE,IT)	Object Oriented Programming through C++ **R1921055**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**	**05-03-2022 (Saturday)**
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Electronic Devices and Circuits **R1921041** (Common to ECE,EIE)	Switching Theory and Logic Design **R1921042** (Common to ECE,EIE)	Signals and Systems **R1921043** (Common to ECE,EIE)	Transducer Technology **R1921101**	Data structures **R1921102**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
INFORMATION TECHNOLOGY (12-IT)	Discrete Mathematical Structures **R1921121**	Principles of Software Engineering **R1921122**	Python Programming **R1921053** (Common to CSE,IT)	Data Structures **R1921054** (Common to CSE,IT)	Computer Organization **R1921056** (Comm to CSE,IT)	Object Oriented Programming through C++ **R1921123**
AUTO MOBILE ENGINEERING (24-AME)	Metallurgy & Materials Science **R1921241**	Mechanics of Solids **R1921032** (Common to ME,AME)	Fluid Mechanics & Hydraulic Machines **R1921242** (Common to AME,MM)	Basic elements of Automobile Chassis **R1921243**	Thermodynamics **R1921035** (Common to ME.AME)	….

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	21-02-2022 (Monday)	**23-02-2022 (Wednesday)**	**25-02-2022 (Friday)**	**28-02-2022 (Monday)**	**03-03-2022 (Thursday)**	**05-03-2022 (Saturday)**
MINING ENGINEERING (26-MM)	Development of Mineral Deposits **R1921261**	Mine Surveying-I **R1921262**	Fluid Mechanics & Hydraulic Machines **R1921242** (Common to AME,MM)	Mining Geology –I **R1921263**	….	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics- IV **R1921271**	Basic Electrical & Electronics Engineering **R1921272**	Materials Science & Engineering **R1921273**	Elements of Mechanical Engineering **R1921274**	Petroleum Geology **R1921275**	Chemical Process Principles **R1921276**
AGRICULTURAL ENGINEERING (35-AGE)	Mathematics - III **R1921351**	Fluid Mechanics and Open Channel Hydraulic **R1921352**	Renewable Energy Sources **R1921353**	Ground Water Hydrology, Well and Pumps **R1921354**	Properties and Strength of Materials **R1921355**	Electrical Systems **R1921356**

NOTE:

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DATE: 02-02-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY/MARCH - 2022

T I M E T A B L E

T I M E: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	21-02-2022 (Monday)	23-02-2022 (Wednesday)	25-02-2022 (Friday)	28-02-2022 (Monday)	03-03-2022 (Thursday)	05-03-2022 (Saturday)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - II SEMESTER (R16 REGULATIONS) SUPPLEMENTARY EXAMINATIONS, FEBRUARY – 2022

T I M E T A B L E

TIME : 02.00 PM TO 05.00 PM

BRANCH	DATE AND DAY					
	07-02-2022 (Monday)	**09-02-2022 (Wednesday)**	**11-02-2022 (Friday)**	**15-02-2022 (Tuesday)**	**17-02-2022 (Thursday)**	**19-02-2022 (Saturday)**
CIVIL ENGINEERING (01- CE)	BUILDING PLANNING AND DRAWING	HYDRAULICS AND HYDRAULIC MACHINERY	TRANSPORTATION ENGINEERING-I	CONCRETE TECHNOLOGY	STRUCTURAL ANALYSIS - I	STRENGTH OF MATERIALS- II
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	SWITCHING THEORY AND LOGIC DESIGN	ELECTRICAL MEASUREMENTS	CONTROL SYSTEMS	POWER SYSTEMS-I	ELECTRICAL MACHINES-II
MECHANICAL ENGINEERING (03 - ME)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	THERMAL ENGINEERING –I (Com. to ME,AME)	PRODUCTION TECHNOLOGY (Com. to ME, AME)	DESIGN OF MACHINE MEMBERS-I	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MACHINE DRAWING (Com. to ME, AME)
ELECTRONICS& COMMUNICATIONS ENGINEERING (04 - ECE)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	EM WAVES AND TRANSMISSION LINES (Com. to ECE, EIE)	ELECTRONIC CIRCUIT ANALYSIS (Com. to ECE, EIE)	CONTROL SYSTEMS (Com. to ECE,EIE,ECC)	ANALOG COMMUNICATIONS
COMPUTER SCIENCE& ENGINEERING (05 - CSE)	SOFTWARE ENGINEERING	JAVA PROGRAMMING (Com. to CSE, IT)	ADVANCED DATA STRUCTURES	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	FORMAL LANGUAGES AND AUTOMATA THEORY	PRINCIPLES OF PROGRAMMING LANGUAGES (Com. to CSE,IT)

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II. B.TECH II SEMESTER (R16)

BRANCH	DATE AND DAY					
	07-02-2022 (Monday)	**09-02-2022 (Wednesday)**	**11-02-2022 (Friday)**	**15-02-2022 (Tuesday)**	**17-02-2022 (Thursday)**	**19-02-2022 (Saturday)**
ELECTRONICS & INSTRUMENTATION ENGINEERING (10- EIE)	SIGNAL CONDITIONING	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	ELECTRO MAGNETIC WAVES AND TRANSMISSION LINES (Com. to ECE, EIE)	ELECTRONIC CIRCUIT ANALYSIS (Com. to ECE, EIE)	CONTROL SYSTEMS Com. to ECE,EIE,ECC)	PRINCIPLES OF COMMUNICATION (Com. to EIE, ECC)
INFORMATION TECHNOLOGY (12 - IT)	COMPUTER GRAPHICS	JAVA PROGRAMMING (Com. to CSE, IT)	OBJECT ORIENTED ANALYSIS AND DESIGN USING UML	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	E-COMMERCE	PRINCIPLES OF PROGRAMMING LANGUAGES(Com. to CSE,IT)
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	OBJECT ORIENTED PROGRAMMING	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	CONTROL SYSTEMS (Com. to ECE,EIE,ECC)	PRINCIPLES OF COMMUNICATION (Com. to EIE, ECC)
AERONUTICAL ENGINEERING (21 - AE)	AIRCRAFT SYSTEM AND INSTRUMENTS	APPLIED THERMODYNAMICS	ELEMENTS OF HEAT TRANSFER	MANUFACTURING TECHNOLOGY	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	AERODYNAMICS -I

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II. B.TECH II SEMESTER (R16)

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BRANCH	DATE AND DAY					
	07-02-2022 (Monday)	**09-02-2022 (Wednesday)**	**11-02-2022 (Friday)**	**15-02-2022 (Tuesday)**	**17-02-2022 (Thursday)**	**19-02-2022 (Saturday)**
AUTO MOBILE ENGG. (AME-24)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	THERMAL ENGINEERING-I (Com. to ME.AME)	PRODUCTION TECHNOLOGY (Com. to ME, AME)	FLUID MECHANICS AND HYDRAULIC MACHINERY	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MACHINE DRAWING (Com. to ME, AME, MM)
MINING – (26-MM)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	MATERIAL ENGINEERING	SURFACE MINING	MINE SURVEYING -I	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MINING GEOLOGY - II
PETROLEUM ENGINEERING (27-PE)	PROBABILITY AND STATISTICS	PETROLEUM EXPLORATION	THERMODYNAMICS FOR PETROLEUM ENGINEERS	PETROLEUM GEOLOGY	PROCESS HEAT TRANSFER	MOMENTUM TRANSFER
AGRICULTURAL ENGINEERING (35-AGE)	HEAT AND MASS TRANSFER	THEORY OF MACHINES	FARM POWER AND TRACTOR SYSTEMS	SURFACE WATER HYDROLOGY	SOIL MECHANICS	THEORY OF STRUCTURES

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DATE: 24-01-2022

Controller of Examinations

TIME TABLE OF II B.TECH II SEMESTER ADITIONAL SUBJECTS FOR READMITTED STUDENTS FROM R16 REGULATIONS

DATE OF EXAMINATION: 19-02-2022 (Saturday)	TIME OF EXAMINATION: 02.00 PM TO 05.00 PM

BRANCH	SUBJECT ALREADY STUDIED	SUBSTITUTED SUBJECT
COMPUTER SCIENCE& ENGINEERING (05 - CSE)	------	OBJECT ORIENTED PROGRAMMING THROUGH C++ (**AR161215**)

TIME TABLE OF II B.TECH II SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R16 REGULATIONS

DATE OF EXAMINATION: 19-02-2022 (Saturday)	TIME OF EXAMINATION: 02.00 PM TO 05.00 PM

BRANCH	SUBJECT ALREADY STUDIED	SUBSTITUTED SUBJECT
MECHANICAL ENGINEERING (03 - ME)	PROFESSIONAL ETHICS AND HUMAN VALUES	FLUID MECHANICS & HYDRAULIC MACHINERY (P1622031)

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DATE: 24-01-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - II SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY - 2022

T I M E T A B L E

TIME : 02.00 PM TO 05.00 PM

BRANCH	DAY AND DATE					
	07-02-2022 (Monday)	**09-02-2022 (Wednesday)**	**11-02-2022 (Friday)**	**15-02-2022 (Tuesday)**	**17-02-2022 (Thursday)**	**19-02-2022 (Saturday)**
CIVIL ENGINEERING (01-CE)	Strength of Materials-II **R1922011**	Hydraulics and Hydraulic Machinery **R1922012**	Engineering Geology **R1922013**	Transportation Engineering - II **R1922014**	Environmental Engineering - I **R1922015**	…..
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Electrical Measurements & Instrumentation **R1922021**	Electrical Machines-II **R1922022**	Digital Electronics **R1922023**	Control Systems **R1922024**	Power Systems-I **R1922025**	Signals and Systems **R1922026**
MECHANICAL ENGINEERING (03-ME)	Complex Variables & Statistical Methods **R1922031**	Kinematics of Machinery **R1922032** (Common to ME,AME)	Applied Thermodynamics **R1922033**	Fluid Mechanics & Hydraulic Machines **R1922034**	Metal Cutting & Machine Tools **R1922035**	Design of Machine Members-I **R1922036**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Circuit Analysis **R1922041**	Linear Control Systems **R1922042**	Electromagnetic Waves and Transmission Lines **R1922043**	Analog Communications **R1922044**	Computer Architecture and Organization **R1922045**	Management and Organizational Behavior **R1922046**
COMPUTER SCIENE & ENGINEERING (05-CSE)	Probability and Statistics **R1922051** (Common to CSE,IT)	Java Programming **R1922052** (Common to CSE,IT)	Operating Systems **R1922053**	Database Management Systems **R1922054** (Common to CSE,IT)	Formal Languages and Automata Theory **R1922055**	…..
INFORMATION TECHNOLOGY (12-IT)	Probability and Statistics **R1922051** (Common to CSE,IT)	Java Programming **R1922052** (Common to CSE,IT)	Operating Systems **R1922121**	Database Management Systems **R1922054** (Common to CSE,IT)	Theory of Computation **R1922122**	…..
AUTO MOBILE ENGINEERING (24-AME)	Applied Thermodynamics **R1922241**	Kinematics of Machinery **R1922032** (Common to ME,AME)	Automotive Engines **R1922242**	Production Technology **R1922243**	Automotive Electrical and Electronics **R1922244**	Automobile Assembly Drawing **R1922245**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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MINING ENGINEERING (26-MM)	Drilling and Blasting **R1922261**	Mechanics of Solids **R1922262**	Mining Geology –II **R1922263**	Mine Surveying – II **R1922264**	Surface Mining **R1922265**	Mine Environmental Engineering-I **R1922266**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27-PE)	Fluid Mechanics for Petroleum Engineers **R1922271**	Thermodynamics for Petroleum Engineers **R1922272**	Process Instrumentation **R1922273**	Petroleum Exploration **R1922274**	Petroleum Reservoir Engineering – I **R1922275**	Process Heat Transfer **R1922276**
AGRICULTURAL ENGINEERING (35-AGE)	Theory of Structures **R1922351**	Heat and Mass Transfer **R1922352**	Theory of Machines **R1922353**	Soil Mechanics **R1922354**	Surface Water Hydrology **R1922355**	Farm Power and Tractor Systems **R1922356**

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DATE: 24-01-2022

Controller of Examinations

III B.TECH I SEMESTER (R16)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH - I SEMESTER (R16 REGULATIONS) SUPPLEMENTARY EXAMINATIONS, FEBRUARY – 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

BRANCH	DATE AND DAY				
	01-02-2022 (Tuesday)	**03-02-2022 (Thursday)**	**05-02-2022 (Saturday)**	**08-02-2022 (Tuesday)**	**10-02-2022 (Thursday)**
CIVIL ENGINEERING (01- CE)	Transportation Engineering-II (R1631015)	Structural Analysis – II (R1631013)	Design and Drawing of Reinforced Concrete Structures (R1631014)	Engineering Geology (R1631012)	Management Science (Com. to CE,PE) (R1631011)
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	Pulse & Digital Circuits (R1631024)	Renewable Energy Sources (R1631022)	Power Systems-II (R1631021)	Signals and Systems (R1631023)	Power Electronics (R1631025)
MECHANICAL ENGINEERING (03 - ME)	Dynamics of Machinery (R1631031)	Metal Cutting & Machine Tools (R1631032)	Design of Machine Members–II (R1631033)	Operations Research (R1631034)	Thermal Engineering – II (R1631035)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Computer Architecture and Organization (Com. to ECE,EIE) (R1631041)	Linear IC Applications (Com. to ECE,EIE) (R1631042)	Digital Communications (R1631044)	Digital IC Applications (Com. to ECE,EIE) (R1631043)	Antennas and Wave Propagation (R1631045)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	Compiler Design (R1631051)	Unix Programming (Com. to CSE,IT) (R1631052)	Object Oriented Analysis and Design using UML (R1631053)	Database Management Systems (Com. to CSE,IT) (R1631054)	Operating Systems (Com. to CSE,IT) (R1631055)

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BRANCH	DATE AND DAY				
	01-02-2022 (Tuesday)	**03-02-2022 (Thursday)**	**05-02-2022 (Saturday)**	**08-02-2022 (Tuesday)**	**10-02-2022 (Thursday)**
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10- EIE)	Computer Architecture and Organization (Com. to ECE,EIE) (R1631041)	Linear IC Applications (Com. to ECE,EIE) (R1631042)	Digital Signal Processing (R1631102)	Digital IC Applications (Com. to ECE,EIE) (R1631043)	Process Instrumentation (R1631101)
INFORMATION TECHNOLOGY (12 - IT)	Human Computer Interaction (R1631121)	Unix and Shell Programming (Com. to CSE,IT) (R1631052)	Advanced JAVA Programming (R1631122)	Database Management Systems (Com. to CSE,IT) (R1631054)	Operating Systems (Com. to CSE,IT) (R1631055)
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	Computer Graphics (R1631191)	Linear IC Applications (Com. To ECE,EIE,ECom E) (R1631042)	Design and Analysis of Algorithms (R1631193)	Digital IC Applications (Com. to ECE,EIE,ECom E) (R1631043)	Computer Networks (R1631192)
AERONAUTICAL ENGINEERING (21 - AE)	Aircraft Performance (R1631211)	Aerodynamics – II (R1631212)	Aircraft Structures-I (R1631213)	Propulsion – I (R1631214)	Theory of Machines (R1631215)

CONTINUED ON PAGE – 3

BRANCH	DATE AND DAY				
	01-02-2022 (Tuesday)	**03-02-2022 (Thursday)**	**05-02-2022 (Saturday)**	**08-02-2022 (Tuesday)**	**10-02-2022 (Thursday)**
AUTOMOBILE ENGINEERING (AME-24)	Dynamics of Machinery (R1631241)	Heat Transfer (R1631245)	Design of Machine Elements (R1631243)	Vehicle Transport Management (R1631244)	Fuels and Combustion (R1631242)
MINING ENGINEERING (26-MM)	Under Ground Coal Mining Technology (R1631261)	Mining Machinery & Mechanization-I (R1631265)	Mine Environment Engineering – I (R1631262)	Electrical Equipment in Mines (R1631263)	Mine Surveying-II (R1631264)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Process Instrumentation (R1631272)	Well Logging & Formation Evaluation (R1631273)	Drilling Technology (R1631274)	Process Dynamics & Control (R1631271)	Management Science (Com. to CE,PE) (R1631011)
AGRICULTURAL ENGINEERING (35-AGE)	Thermodynamics and Refrigeration Systems (R1631351)	Managerial Economics and Financial Analysis (R1631355)	Soil and Water Conservation Engineering (R1631352)	Agricultural Process Engineering (R1631353)	Engineering Properties of Biological Materials and Food Quality (R1631354)

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DATE: 10-01-2022

Controller of Examinations

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 15-02-2022 (Tuesday)		TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
CIVIL ENGINEERING (01 - CE)	----	Transportation Engineering-I (P1622016)
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - ME)	----	Managerial Economics & Financial Analysis (P1621026)
MECHANICAL ENGINEERING (03 - ME)	----	Design of Machine Members-I (P1622034)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Professional Ethics & Human Values	Control Systems (P1622042)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	---	Engineering Mechanics (P161111)
INFORMATION TECHNOLOGY (12-IT)	Professional Ethics & Human Values	Software Engineering (P1621121)

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 15-02-2022 (Tuesday)		TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	----	Environmental Studies (P161212)

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DATE: 10-01-2022

Controller of Examinations

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 17-02-2022 (Thursday)		TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Professional Ethics & Human Values	Pulse & Digital Circuits (P1622045)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	----	Python Programming

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) REGULAR EXAMINATIONS, FEBRUARY - 2022

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE & DAY					
	01-02-2022 (Tuesday)	**03-02-2022 (Thursday)**	**05-02-2022 (Saturday)**	**08-02-2022 (Tuesday)**	**10-02-2022 (Thursday)**	**15-02-2022 (Tuesday)**
CIVIL ENGINEERING (01 CE)	Structural Analysis **(R1931011)**	Concrete Technology **(R1931012)**	Water Resources Engineering - I **(R1931013)**	Environmental Engineering - II **(R1931014)**	**Program Elective – I :-**	**Open Elective – I (Choose any One**
					i) Repair & Rehabilitation of Buildings **(R193101A)**	i) Disaster Management **(R193101F)**
					ii) Environmental Impact Assessment **(R193101B)**	ii) Environmental Pollution & Control **(R193101G)**
					iii) Reinforced Soil Structures **(R193101C)**	iii) Elements of Civil Engineering **(R193101H)**
					iv) Traffic Engineering **(R193101D)**	iv) Green Technology **(R193101I)**
					v) Construction Technology & Management **(R193101E)**	v) Smart Cities **(R193101J)**
						vi) Project Management **(R193101K)**
						vii) Traffic Safety **(R193101L)**
						viii) Geo-Spatial Technologies **(R193101M)**
						ix) Wastewater Treatment **(R193101N)**
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Linear IC Applications **(R1931023)**	Power Electronics **(R1931022)**	Power Systems-II **(R1931021)**	Digital Signal Processing **(R1931024)**	Microprocessors and Microcontrollers **(R1931025)**	……
MECHANICAL ENGINEERING (03 ME)	Dynamics of Machinery **(R1931031)**	Design of Machine Members-II **(R1931032)**	Mechanical Measurements & Metrology **(R1931033)**	Managerial Economics and Financial Accountancy **(R1931034)**	IC Engines & Gas turbines (R1931035)	……

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III B TECH I SEMESTER (R19 REGULATION) REGULAR EXAMINATIONS, FEBRUARY - 2022

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ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Linear Integrated Circuits and Applications **(R1931041)**	Microprocessor and Microcontrollers **(R1931042)**	Digital Communications **(R1931043)**	Electronic Measurements & Instrumentation **(R1931044)**	……	**Professional Elective (PE 1) :-** i) Information Theory & Coding **(R193104A)** ii) Digital System Design Using HDL **(R193104B)** iii) Datastructures and Algorithms **(R193104C)** iv) Soft Computing Techniques and Python Programming **(R193104D)** v) Simulation & Mathematical Modeling **(R193104E)**
COMPUTER SCIENE & ENGINEERING (05 CSE)	Data Warehousing and Data Mining **(R1931051)**	Computer Networks **(R1931052)**	Compiler Design **(R1931053)**	Artificial Intelligence **(R1931054)**	……	**Professional Elective- I:-** i) Computer Graphics **(R193105A)** ii) Principles of Programming Languages **(R193105B)** iii) Advanced Data Structures **(R193105C)** iv) Software Testing Methodologies **(R193105D)** v) Advanced Computer Architecture **(R193105E)**
INFORMATION TECHNOLOGY (12 IT)	Advanced Data Structures **(R1931121)**	Computer Networks **(R1931122)**	Compiler Design **(R1931123)**	Artificial Intelligence **(R1931054)**	Design and Analysis of Algorithms **(R1931124)**	**Professional Elective -I:-** i) Software Testing Methodologies **(R193105D)** ii) NoSQL Databases **(R193112A)** iii) Scripting Languages **(R193112B)** iv) Computer Graphics **(R193105A)** v) R-Programming **(R193112C)**

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AUTO MOBILE ENGINEERING (24 AME)	Dynamics of Machinery **(R1931031)**	Fuels and Combustion **(R1931241)**	Automotive Components Design **(R1931242)**	Micro Processors and Micro Controllers **(R1931243)**	Machine Tools & Metrology **(R1931244)**	……
MINING ENGINEERING (26 MM)	Underground Coal Mining Technology **(R1931261)**	Mine Environment Engineering – II **(R1931262)**	Rock Mechanics **(R1931263)**	Mining Machinery & Mechanization-I **(R1931264)**	Corporate Social Responsibility in Mining (R1931265)	**Open Elective :-** i) Waste Water Management **(R193126A)** ii) Environmental impact analysis **(R193126B)** iii) Disaster Management and Mitigations **(R193126C)**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)	Process Dynamics & Control **(R1931271)**	Well Logging & Formation Evaluation **(R1931272)**	Drilling & Well Completions **(R1931273)**	Managerial Economics & Financial Analysis **(R1931279)**	**Professional Elective -I :-** i) Fundamentals of Liquefied Natural Gas. **(R193127A)** ii) CBM Reservoir Engineering **(R193127B)**	**Open Elective - I :-** i) Disaster Management **(R193101F)** ii) Renewable Energy Sources **(R193127C)**
AGRICULTURAL ENGINEERING (35 AGE)	Thermodynamics and Refrigeration systems **(R1931351)**	Soil and Water Conservation Engineering **(R1931352)**	Agricultural Process Engineering **(R1931353)**	Managerial Economics & Financial Analysis **(R1931279)**	Farm Machinery and Equipment - I **R1931354**	……

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III B TECH - II SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY - 2022

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CIVIL ENGINEERING (01-CE)	Design and Drawing of Steel Structures **(R1632011)**	Geotechnical Engineering – I **(R1632012)**	Environmental Engineering – I **(R1632013)**	Water Resources Engineering–I **(R1632014)**	**OPEN ELECTIVE:-** Electronic Instrumentation Data Base Management Systems Alternative Energy Sources Waste water Management Fundamentals of Liquefied Natural Gas Green Fuel Technologies
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Power Electronic Controllers & Drives **(R1632021)**	Power System Analysis **(R1632022)**	Micro Processors and Micro controllers **(R1632023)**	Data Structures **(R1632024)**	**OPEN ELECTIVE:-** Unix and Shell Programming OOPS Through JAVA VLSI Design Robotics Neural Networks &Fuzzy Logic Energy Audit and Conservation&Management
MECHANICAL ENGINEERING (03-ME)	Metrology **(R1632031)**	Instrumentation & Control Systems **(R1632032)**	Refrigeration & Air-conditioning **(R1632033)**	Heat Transfer - **(R1632034)**	**OPEN ELECTIVE:-** Entrepreneurship Data Base Management System Waste Water Management Computer Graphics Industrial Robotics Green Engineering Systems
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Micro Processors & Micro Controllers **(R1632041) (Common to ECE, EIE, E.COM.E)**	Micro Wave Engineering **(R1632042)**	VLSI Design **(R1632043) (Common to EEE- elective, ECE, EIE, E.COM.E)**	Digital Signal Processing **(R1632044)**	**OPEN ELECTIVE:-** OOPs through Java Data Mining Industrial Robotics Power Electronics Bio-Medical Engineering Artificial Neural Networks

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH - II SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, FEBRUARY - 2022

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COMPUTER SCIENE & ENGINEERING (05-CSE)	Computer Networks **(Common to CSE, IT)(R1632051)**	Data Warehousing and Mining **(Common to CSE,IT) (R1632052)**	Design and Analysis of Algorithms **(R1632053)**	Software Testing Methodologies **(Common to CSE. IT) (RT32054)**	**OPEN ELECTIVE:-** Artificial Intelligence Internet of Things Cyber Security Digital Signal Processing Embbeded Systems Robotics
ELECTRONICS AND INSTRUMENTATIO N ENGINEERING (10-EIE)	Micro Processors & Micro Controllers **(R1632041) (Common to ECE, EIE, E.COM.E)**	Measuring Instruments **(R1632102)**	VLSI Design **(Common to EEE- elective, ECE, EIE, E.COM.E) (R1632043)**	Analytical Instrumentation **(R1632101)**	**OPEN ELECTIVE:-** OOPs through Java Data Mining Power Electronics Bio-Medical Engineering Artificial Neural Networks
INFORMATION TECHNOLOGY (12-IT)	Computer Networks **(Common to CSE, IT)(R1632051)**	Data Mining **(R1632121)**	Web Technologies **(R1632122)**	Software Testing Methodologies **(Common to CSE. IT) (RT32054)**	**OPEN ELECTIVE:-** Artificial Intelligence Social Networks and Semantic Web Digital Signal Processing Embbeded Systems Robotics Operations Research

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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ELECTRONICS AND COMPUTER ENGINEERING (19-ECC)	Micro Processors & Micro Controllers **(R1632041) (Common to ECE, EIE, E.COM.E)**	Operating System **(R1632192)**	VLSI Design **(Common to ECE, EIE, E.COM.E) (R1632043)**	Data Base Management Systems **(R1632191)**	**OPEN ELECTIVE:-** Data Mining Industrial Robotics Bio-Medical Engineering Artificial Neural Networks
AERONUTICAL ENGINEERIG (21-AE)	Aircraft stability and control **(R1632211)**	Aircraft Structures –II **(R1632212)**	Propulsion – II **(R1632213)**	Finite Element Method **(R1632214)**	**OPEN ELECTIVE:-** Data Base Management System Waste Water Management Entrepreneurship Satellite Technology Industrial Aerodynamics Theory of Elasticity
AUTO MOBILE ENGINEERING (24-AME)	Machine Tools & Metrology **(R1632241)**	Instrumentation & Control Systems **(R1632242)**	Automotive Electrical and Electronics **(R1632243)**	Alternative Energy Sources for Automobiles **(R1632244)**	**OPEN ELECTIVE:-** Electronic Instrumentation Data Base Management Systems Computer Graphics Green Engineering Systems Offroad Vechiles Automotive Emissions and Pollution Control

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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MINING ENGINEERING (26-MM)	Mine Systems Engineering **(R1632261)**	Mineral Engineering and Fuel Technology **(R1632262)**	Mine Environmental Engineering **(R1632263)**	Mining Machinery & Mechanization – II **(R1632264)**	**OPEN ELECTIVE:-** Industrial Robotics Entrepreneurship Quality and Reliability Engineering Waste Water Management Rock Excavation Engineering Mine Safety Engineering
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Well Completions, Testing & Servicing - **(R1632271)**	Petroleum Production Engineering **(R1632272)**	Petroleum Reservoir Engineering-I **(R1632273)**	Petroleum Refinery & Petrochemical Engineering **(R1632274)**	**OPEN ELECTIVE:-** Electronic Instrumentation Big Data Analytics Alternative Energy Sources for Automobiles Waste Water Management Fundamentals of Liquefied Natural Gas Computational Fluid Dynamics
AGRICULTURAL ENGINEERING (35-AGE)	Irrigation and Drainage Engineering **(R1632351)**	Farm Machinery and Equipment – I **(R1632352)**	Design of Soil, Water Conservation and Farm Structures **(R1632353)**	Dairy and Food Engineering **(R1632354)**	**OPEN ELECTIVE:-** Operations Research Digital Control systems Robotics & Automation Industrial Pollution Control Engineering Finite Element Method Water Resources System Planning and Management

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TIME: 02.00 PM TO 05.00 PM

BRANCH	DAY AND DATE				
	08-02-2022 (Tuesday)	10-02-2022 (Thursday)	14-02-2022 (Monday)	16-02-2022 (Wednesday)	18-02-2022 (Friday)

DATE: 24-01-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA - 533003
IV B.TECH - I SEMESTER (R16) REGULAR/SUPPLEMENTARY EXAMINATIONS, JANUARY/FEBRUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

Branch	31-01-2022 (Monday)	02-02-2022 (Wednesday)	04-02-2022 (Friday)	07-02-2022 (Monday)	09-02-2022 (Wednesday)	14-02-2022 (Monday)	16-02-2022 (Wednesday)
Civil Engineering (01)	Environmental Engineering – II (R1641011)	Water Resource Engineering - II (R1641012)	Geotechnical Engineering - II (R1641013)	Remote sensing and GIS Applications (R1641014)	**Elective-I**: Finite Element Methods (R164101A)/Ground Improve Techniques (R164101B)/Air Polluation and Control (R164101C)/Urbon Hydrology (R164101D)/Traffic Engineering (R164101E)	**Elective-II**: Advanced Structural Engineering (R164101F)/Advanced Foundation Engineering (R164101G)/Environmental Impact Assessment & Management (R164101H)/Ground Water Development (R164101I)/Pavement Analysis and Design (R164101J)	….
Electrical & Electronics Engineering (02)	Utilization of Electrical Energy (R1641021)	Linear IC Application (R1641022)	Power Systems Operation & Control (R1641023)	Switch Gear and Protection (R1641024)	**Elective-I**: Electrical Machine Modeling Analysis (R164102A)/Advanced Control Systems (R164102B)/Programmable Logic Control & Applications (R164102C)/Instrumentation (R164102D)	**Elective-II**: Optimization Techniques (R164102E)/Electric Power Quality (R164102F)/Special Electrical Machines (R164102G)	….
Mechanical Engineering (03)	Mechatronics (R1641031)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Power Plant Engineering (R1641034)	**Elective-I**: Computational Fluid Dynamics (Common to ME , AME & AE) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)/Additive Manufacturing (R164103C)	**Elective-II**: Advanced Materials (R164103D)/Design for Manufacture (R164103E)/Gas Dynamics & Jet Propulsion (R164103F)	….
Electronics & Communication Engineering (04)	Radar Systems (R1641041)	Digital Image Processing (Common to ECE & EIE & E.COMP.E) (R1641042)	Computer Networks (Common to ECE & EIE) (R1641043)	Optical Communications (R1641044)	**Elective-I**: TV Engineering (R164104A)/Electronic Switching Systems (R164104B)/System Design through Verilog (R164104C)	**Elective-II**: Embedded Systems (R164104D)/Analog IC Design(Common to ECE & EIE) (R164104E)/Network Security & Cryptography (R164104F) (Only for ECE)	….
Computer Science & Engineering (05)	Cryptography and Network Security (Common to CSE , IT) (R1641051)	Software Architecture & Deisgn Patterns (R1641052)	Web Technologies (R1641053)	Managerial Economics and Financial Analysis (Common to CSE & IT) (R1641054)	**Elective-I**: Big Data Analytics (Common to CSE & IT) (R164105A)/Information Retrieval Systems (Common to CSE & IT) (R164105B)	**Elective-II**: Cloud Computing (Common to CSE & IT) (R164105D)/Software Project Management (Common to CSE & IT) (R164105E)/Scripting Languages (R164105F)	Mobile Computing (Common to CSE, IT) (R164105C)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA - 533003
IV B.TECH - I SEMESTER (R16) REGULAR/SUPPLEMENTARY EXAMINATIONS, JANUARY/FEBRUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

Branch	31-01-2022 (Monday)	02-02-2022 (Wednesday)	04-02-2022 (Friday)	07-02-2022 (Monday)	09-02-2022 (Wednesday)	14-02-2022 (Monday)	16-02-2022 (Wednesday)
Electronics & Instrumentation Engineering (10)	Data Acquisition Systems (R1641101)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Computer Networks(Common to ECE & EIE) (R1641043)	Management Science (R1641102)	**Elective II**: Mixed Signal Design (R164110C)/Robotics & Automation (R164110D)/EMI/EMC (R164110E)	**Elective I**: Quality and Reliability Engineering Systems (QRES) (R164110A)/Analog IC Design(Common to ECE & EIE) (R164104E)/Digital Control Systems (R164110B)	….
Information Technology (12)	Cryptography and Network Security (Common to CSE & IT) (R1641051)	…..	Data Ware Housing and Business Intelligence (R1641121)	Managerial Economics and Financial Analysis (Common to CSE & IT) (R1641054)	**Elective I:** Big Data Analystics (Common to CSE & IT) (R164105A)/Information Retrieval Systems(Common to CSE & IT) (R164105B)/Internet of Things(R164112A) /Multimedia Programming (R164112B)	**Elective II**: Cloud Computing(Common to CSE & IT) (R164105D)/Software Project Management(Common to CSE & IT) (R164105E)/Machine Learning (R164112C)/Decision Support System (R164112D)	Mobile Computing (Common to CSE, IT) (R164105C)
Electronics & Computer Engineering (19)	Systems Programming (R1641191)	Digital Image Processing(Common to ECE , EIE & E.COMP.E) (R1641042)	Digital Signal Processing (R1641192)	UNIX Programming (R1641193)	**Elective I**: Artificial Intelligence (R164119A)/Advanced Computer Architecture (R164119B)/Data Communication (R164119C)	**Elective II**: Web Design (R164119D)/Fuzzy Logic and Neural Networks (R164119E)/Structured Digital Design (R164119F)	….
Aeronoltical Engineering (21)	Theory of Vibrations (R1641211)	**Elective I**: Airframe Repair and Maintenance (R164121A)/Boundary Layer Theory (R164121B)/Fatigue and Fracture Mechanics (R164121C)	Instrumentation Measurements and Experiments in Fluids (R1641212)	Helicopter Engineering (R1641213)	Compuatational Fluid Dynamics(Common to ME, AME & Aeronautical) R164103A	**Elective II**: Elements of Combustion (R164121D)/Quality and Reliabilty Engineering (R164110A)/Hypersonic Aerodynamics (R164121E)	….
Automobile Engineering (24)	Automotive Chasis and Suspension (R1641241)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Vehicle Dynamics (R1641242)	**Elective II**: Micro Processors & Micro Controllers (R164124D)/Computational Fluid Dynamics(Common to ME, AME & Aeronautical) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)	**Elective I**: Vehicle Body Engg. & Safety (R164124A)/Industrial Robotics (R164124B)/Automotive Aerodynamics (R164124C)	….

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA - 533003
IV B.TECH - I SEMESTER (R16) REGULAR/SUPPLEMENTARY EXAMINATIONS, JANUARY/FEBRUARY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

Branch	31-01-2022 (Monday)	02-02-2022 (Wednesday)	04-02-2022 (Friday)	07-02-2022 (Monday)	09-02-2022 (Wednesday)	14-02-2022 (Monday)	16-02-2022 (Wednesday)
Mining Engineering (26)	Computer Applications in Mining (R1641261)	Underground Metal Mining Technology (R1641262)	Rock Mechanics & Ground Control (R1641263)	Mine Legislation & General Safety (R1641264)	**Elective I**: Rock Slope Engineering (R164126A)/Mine Subsidence Engineering (R164126B)/Rock Fragmentation Engineering (R164126C)	**Elective II**: Deep Sea Mining (R164126D)/Mine Construction Engineering (R164126E)/Tunneling Engineering (R164126F)	….
Petroleum Engineering (27)	Integrated Asset Management (R1641271)	Petroleum Reservoir Engineering-II (R1641272)	Surface Production Operations (R1641273)	Oil & Gas Processing Plant Design (R1641274)	**Elective I**: Natural Gas Hydrates (R164127A)/Pipeline Engineering (R164127B)/Horizontal Well Technology (R164127C)	**Elective II**: Coal Bed Methane Engineering (R164127D)/Offshore Engineering (R164127E)/Reservoir Stimulation (R164127F)	….
Agricultural Engineering (35)	Micro Irrigation Engineering (R1641351)	Farm Machinery and Equipments-II (R1641352)	Post Harvest Engineering for Horticulture Produce (R1641353)	Mechanical Measurements and Instrumentation (R1641354)	**Elective I** :Seed Processing and Storage Engineering (R164135A)/Green House Technologies (R164135B)/Food Processing Plant Design and Layout (R164135C)	**Elective II**: Watershed Management (R164135D)/Food Packaging Technology (R164135E)/Minor Irrigation and Command area development (R164135F)	….

NOTE:

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iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 05-01-2022

Controller of Examinations

III B.TECH I SEMESTER (R19)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY - 2022

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE & DAY					
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**	**08-07-2022 (Friday)**
CIVIL ENGINEERING (01 CE)	Structural Analysis **(R1931011)**	Concrete Technology **(R1931012)**	Water Resources Engineering - I **(R1931013)**	Environmental Engineering - II **(R1931014)**	**Program Elective – I :-**	**Open Elective – I (Choose any One**
					i) Repair & Rehabilitation of Buildings **(R193101A)**	i) Disaster Management **(R193101F)**
					ii) Environmental Impact Assessment **(R193101B)**	ii) Environmental Pollution & Control **(R193101G)**
					iii) Reinforced Soil Structures **(R193101C)**	iii) Elements of Civil Engineering **(R193101H)**
					iv) Traffic Engineering **(R193101D)**	iv) Green Technology **(R193101I)**
					v) Construction Technology & Management **(R193101E)**	v) Smart Cities **(R193101J)**
						vi) Project Management **(R193101K)**
						vii) Traffic Safety **(R193101L)**
						viii) Geo-Spatial Technologies **(R193101M)**
						ix) Wastewater Treatment **(R193101N)**
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Linear IC Applications **(R1931023)**	Power Electronics **(R1931022)**	Power Systems-II **(R1931021)**	Digital Signal Processing **(R1931024)**	Microprocessors and Microcontrollers **(R1931025)**	……
MECHANICAL ENGINEERING (03 ME)	Dynamics of Machinery **(R1931031)**	Design of Machine Members-II **(R1931032)**	Mechanical Measurements & Metrology **(R1931033)**	Managerial Economics and Financial Accountancy **(R1931034)**	IC Engines & Gas turbines (R1931035)	……

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY - 2022

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE & DAY					
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**	**08-07-2022 (Friday)**
ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Linear Integrated Circuits and Applications **(R1931041)**	Microprocessor and Microcontrollers **(R1931042)**	Digital Communications **(R1931043)**	Electronic Measurements & Instrumentation **(R1931044)**	……	**Professional Elective (PE 1) :-** i) Information Theory & Coding **(R193104A)** ii) Digital System Design Using HDL **(R193104B)** iii) Datastructures and Algorithms **(R193104C)** iv) Soft Computing Techniques and Python Programming **(R193104D)** v) Simulation & Mathematical Modeling **(R193104E)**
COMPUTER SCIENE & ENGINEERING (05 CSE)	Data Warehousing and Data Mining **(R1931051)**	Computer Networks **(R1931052)**	Compiler Design **(R1931053)**	Artificial Intelligence **(R1931054)**	……	**Professional Elective- I:-** i) Computer Graphics **(R193105A)** ii) Principles of Programming Languages **(R193105B)** iii) Advanced Data Structures **(R193105C)** iv) Software Testing Methodologies **(R193105D)** v) Advanced Computer Architecture **(R193105E)**
INFORMATION TECHNOLOGY (12 IT)	Advanced Data Structures **(R1931121)**	Computer Networks **(R1931122)**	Compiler Design **(R1931123)**	Artificial Intelligence **(R1931054)**	Design and Analysis of Algorithms **(R1931124)**	**Professional Elective -I:-** i) Software Testing Methodologies **(R193105D)** ii) NoSQL Databases **(R193112A)** iii) Scripting Languages **(R193112B)** iv) Computer Graphics **(R193105A)** v) R-Programming **(R193112C)**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY - 2022

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE & DAY					
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**	**08-07-2022 (Friday)**
AUTO MOBILE ENGINEERING (24 AME)	Dynamics of Machinery **(R1931031)**	Fuels and Combustion **(R1931241)**	Automotive Components Design **(R1931242)**	Micro Processors and Micro Controllers **(R1931243)**	Machine Tools & Metrology **(R1931244)**	……
MINING ENGINEERING (26 MM)	Underground Coal Mining Technology **(R1931261)**	Mine Environment Engineering – II **(R1931262)**	Rock Mechanics **(R1931263)**	Mining Machinery & Mechanization-I **(R1931264)**	Corporate Social Responsibility in Mining (R1931265)	**Open Elective :-** i) Waste Water Management **(R193126A)** ii) Environmental impact analysis **(R193126B)** iii) Disaster Management and Mitigations **(R193126C)**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27 PE)	Process Dynamics & Control **(R1931271)**	Well Logging & Formation Evaluation **(R1931272)**	Drilling & Well Completions **(R1931273)**	Managerial Economics & Financial Analysis **(R1931279)**	**Professional Elective -I :-** i) Fundamentals of Liquefied Natural Gas. **(R193127A)** ii) CBM Reservoir Engineering **(R193127B)**	**Open Elective - I :-** i) Disaster Management **(R193101F)** ii) Renewable Energy Sources **(R193127C)**
AGRICULTURAL ENGINEERING (35 AGE)	Thermodynamics and Refrigeration systems **(R1931351)**	Soil and Water Conservation Engineering **(R1931352)**	Agricultural Process Engineering **(R1931353)**	Managerial Economics & Financial Analysis **(R1931279)**	Farm Machinery and Equipment - I **R1931354**	……

NOTE:

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DATE: 13-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B.TECH II SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, AUGUST - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 I

Branch	08-08-2022 (Monday)	10-08-2022 (Wednesday)	12-08-2022 (Friday)	16-08-2022 (Tuesday)	18-08-2022 (Thursday)	20-08-2022 (Saturday)
Subjects	ENGLISH (Com. to CE,ME, Chem E,Auto E, Min E, Pet E,Agri E) **(R19HS1201)** MATHEMATICS-II (Com. to EEE,ECE,CSE, EIE,IT) **(R19BS1202)**	MATHEMATICS- III (Com. to CE,EEE,ECE,CSE, Chem E,EIE,IT, Auto E,Min E, Pet E) **(R19BS1203)**	APPLIED PHYSICS (Com to EEE, ECE, CSE, EIE, IT) **(R19BS1204)** ENGINEERING CHEMISTRY (Com to CE, ME, Agri E) **(R19BS1210)** ENGINEERING PHYSICS (Com. to Chem E, Auto E, Min E, Pet E) **(R19BS1208)**	DIGITAL LOGIC DESIGN (Com. CSE,IT) **(R19ES1213)** PRINCIPLES OF SOIL SCIENCE & AGRONOMY (Only Agri E) **(R19BS1214)** INTRODUCTION TO CHEMICAL ENGINEERING (Only Chem E) **(R19CH1201)** INTRODUCTION TO PETROLEUM ENGINEERING (Only Pet E) **(R19PT1201)** FUNDAMENTALS OF COMPUTERS (Only EEE) **(R19ES1212)**	PROGRAMMING FOR PROBLEM SOLVING USING C (Com. CE,CSE,IT,Agri E) **(R19ES1201)** ELECTRICAL CIRCUIT ANALYSIS-I ENGINEERING (Only EEE) **(R19ES1217)** BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (Com. ME, Auto E,Min E) **(R19ES1206)** BASIC ELECTRICAL ENGINEERING (Com. ECE, EIE) **(R19ES1211)**	ENGINEERING MECHANICS (Com. to ME, Chem E, Pet Agri E) **(R19ES1204)** NETWORK ANALYSIS (Com. ECE, EIE) **(R19ES1209)** ENGINEERING DRAWIN (Com. to Auto E, Min E) **(R19ES1203)**

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DATE: 20-07-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

I B.TECH II SEMESTER (R20 REGULATION) REGULAR/SUPPLEMENTARY EXAMINATIONS, AUGUST - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

Branch	08-08-2022 (Monday)	10-08-2022 (Wednesday)	12-08-2022 (Friday)	16-08-2022 (Tuesday)	18-08-2022 (Thursday)	20-08-2022 (Saturday)
Subjects	Mathematics – II **R201201**	Building Materials and Concrete Technology **R201205** (Only for CE) Applied Physics **R201207** (Comm to EEE, ECE, EIE, ECT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DC) Basic Electrical and Electronics Engineering **R201211** (Comm to ME,AME, Mining,PE,FE,Pharm. E)	Programming for Problem Solving Using C **R201204** (Comm to CE, Agri E) Data Structures Through C **R201208** (Only for EEE) Basic Electrical Engineering **R201214** (Comm to ECE, EIE, ECT) Computer Organization **R201216** (Comm to CSE,IT) Digital Logic Design **R201221** (Comm to CSE-CS&T, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, CSE-CS, CSE-IOT&CS INCL BCT, CSE-CS&BS,CSE-IOT, AI&DS, Cyber Security) Engineering Physics **R201222** (Comm. to AME, Mining, PE,FE)	Data Structures **R201218** (Comm to CSE, IT, CSE-AI&ML, CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Problem Solving Using Python **R201219** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Pharmaceutical Chemistry **R201258** (Only for Pharm. E) Electrical Circuit Analysis –I **R201209** (Only for EEE) Engineering Mechanics **R201210** (Comm to ME, PE, Agri E, FE) Mechanics of Solids **R201255** (Only for Mining) Metallurgy & Materials Science **R201256** (Only for AME)	Engineering Mechanics **R201203** (Only for CE) Thermodynamics **R201254** (Only for ME) Basic Civil and Mechanical Engineering **R201227** (Only for EEE) Engineering Drawing **R201224** (Comm to Mining, Agri.E, Phar.E) Object Oriented Programming Through Java **R201212** (Comm to ECE,EIE, ECT) Basic Electrical & Electronics Engineering **R201220** (Comm to CSE-CS&T, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Engineering Graphics **R201257** (Only for AME) Python Programming **R201225** (Comm to CSE, IT ,CSE-AI&ML,CSE-AI, CSE-DS, CSE-AI&DS, AI&DS) Elements of Mechanical Engineering **R201223** (Only for PE)	Mathematics-III **R201206** (Only for EEE) Engineering Chemistry **R201202** (Comm. to CE,ME ,Agri.E) Applied Chemistry **R201215** (Comm to CSE, CSE-CS&T, IT, CSE-CS, CSE-IOT&CS Incl BCT, CSE-CS&BS, CSE-IOT, Cyber Security) Network Analysis **R201213** (Comm to ECE,EIE, ECT) Engineering and Solid Mechanics **R201259** (Only for Pharm. E)

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DATE: 20-07-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - I SEMESTER (R16 REGULATIONS) SUPPLEMENTARY EXAMINATIONS, JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE AND DAY					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
CIVIL ENGINEERING (01- CE)	FLUID MECHANICS	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (COM. TO CE, CHEM,PE,PEC)	PROBABILITY & STATISTICS (COM TO CE, MET)	STRENGH OF MATERIALS-I	SURVEYING	BUILDING MATERIALS AND CONSTRUCTION
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	ELECTRICAL CIRCUIT ANALYSIS-II	THERMAL AND HYDRO PRIME MOVERS	BASIC ELECTRONICS AND DEVICES	ELECTRICAL MACHINES-I	ELECTRO MAGNETIC FIELDS	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
MECHANICAL ENGINEERING (03 - ME)	METALLURGY & MATERIALS SCIENCE (COM TO ME, AME)	THERMODYNAMIC (COM TO ME, AE,AME)	----	MECHANICS OF SOLIDS (COM TO ME,AE,AME)	FLUID MECHANICS & HYDRAULIC MACHINES (COM TO ME,MIN)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	NETWORK ANALYSIS (COM. TO ECE,ECC,EIE)	SWITCHING THEORY AND LOGIC DESIGN (COM TO ECE,ECC,EIE)	ELECTRONIC DEVICES AND CIRCUITS (COM TO ECE,ECC,EIE)	RANDOM VARIABLES AND STOCHASTIC PROCESS	SIGNALS & SYSTEMS (COM TO ECE,ECC,EIE)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	STATISTICS WITH R PROGRAMMING (COM. TO CSE,IT)	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE AND ENGINEERING (COM TO CSE,IT)	DATA STRUCTURES THROUGH C++ (COM TO CSE,IT)	COMPUTER GRAPHICS	DIGITAL LOGIC DESIGN (COM TO CSE,IT)	PYHON PROGRAMMING (COM TO CSE,IT)

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II B.TECH I SEMESTER (R16)

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BRANCH	DATE AND DAY					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
CHEMICAL ENGINEERING (08 - CHEM)	COMPLEX VARIABLES (COM TO CHEM,PE,PCE)	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (COM TO CE, CHEM,PE,PEC)	ORGANIC CHEMISTRY (COM TO CHEM,PCE)	PHYSICAL CHEMISTRY (COM TO CHEM, PCE)	CHEMICAL PROCESS CALCULATIONS (COM TO CHE,PE,PCE)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10- EIE)	NETWORK ANALYSIS (COM. TO ECE,ECC,EIE)	SWITCHING THEORY AND LOGIC DESIGN (COM TO ECE,ECC,EIE)	ELECTRONIC DEVICES AND CIRCUITS (COM TO ECE,ECC,EIE)	TRANSDUCER TECHNOLOGY	SIGNALS & SYSTEMS (COM TO ECE,ECC,EIE)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
INFORMATION TECHNOLOGY (12 - IT)	STATISTICS WITH R PROGRAMMING (COM. TO CSE,IT)	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE AND ENGINEERING (COM TO CSE,IT)	DATA STRUCTURES THROUGH C++ (COM TO CSE,IT)	SOFTWARE ENGINEERING (COM TO IT,ECC)	DIGITAL LOGIC DESIGN (COM TO CSE,IT)	PYHON PROGRAMMING (COM TO CSE,IT)
METALLURGICAL ENGINEERING (17-MET)	METALLURGICAL THERMODYNAMICS-I	MECHANICS OF SOLID AN FLUIDS	PROBABILITY & STATISTICS (COM TO CE,MET)	POLYMERS	PRINCIPLES OF EXTRACTIVE METALLURGY	PHYSICAL METALLURGY
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	NETWORK ANALYSIS (COM. TO ECE,ECC,EIE)	SWITCHING THEORY AND LOGIC DESIGN (COM TO ECE,ECC,EIE	ELECTRONIC DEVICES AND CIRCUITS (COM TO ECE,ECC,EIE)	SOFTWARE ENGINEERING (COM TO IT,ECC)	SIGNALS & SYSTEMS (COM TO ECE,ECC,EIE)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
AERONUTICAL ENGINEERING (21 - AE)	ELEMENTS OF AEROSPACE ENGINEERING	THERMODYNAMIC (COM TO ME,AE,AME)	----	MECHANICS OF SOLIDS (COM TO ME,AE,AME)	MECHANICS OF FLUIDS	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)

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II B.TECH I SEMESTER (R16)

BRANCH	DATE AND DAY					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
BIO-TECHNOLOGY (23 - BIO)	MATHEMATICS-III	BIOCHEMISTRY	BIOCHEMICAL THERMODYNAMICS	MICRO BIOLOGY	CELL BIOLOGY	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
AUTO MOBILE ENGG. (AME-24)	METALLURGY & MATERIALS SCIENCE (COM.TO ME,AME)	THERMODYNAMIC (COM TO ME,AE,AME)	----	MECHANICS OF SOLIDS (COM TO ME,AE,AME)	AUTOMOTIVE ENGINES	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
MINING ENGINEERING (26-MM)	MINING GEOLOGY-I	THERMAL ENGINEERING FOR MINING	----	DEVELOPMENT OF MINERAL DEPOSITS	FLUID MECHANICS & HYDRAULIC MACHINES (COM.TO CHEM,PCE)	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS (COM TO EEE,ME,ECE,CHEM,EIE,ECC,AE,BOT,AME,MIN)
PETROLEUM ENGINEERING (27-PE)	COMPLEX VARIABLES (COM.TO CHEM.PE.PCE)	BASIC ELECTRICAL AND ELECTRONIS ENGINEERING (COM,TO CE,CHEM,PE,PEC)	GENERAL GEOLOGY	SURVEYING AND OFFSHORE STRUCTURES	CHEMICAL PROCESS CALCULATIONS (COM.TO CHEM,PE,PCE)	MATERIAL SCIENCE & ENGINEERING (COM TO PE,PCE)
PETROCHEMICAL ENGINEERING (28-PCE)	COMPLEX VARIABLES (COM.TO CHEM.PE.PCE)	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (COM,TO CE,CHEM,PE,PEC)	ORGANIC CHEMISTRY (COM.TO CHEM.PCE)	PHYSICAL CHEMISTRY (COM..TO CHEM,PCE)	CHEMICAL PROCESS CALCULATIONS (COM.TO CHEM,PE,PCE)	MATERIAL SCIENCE & ENGINEERING (COM TO PE,PCE)
AGRICULTURAL ENGINEERING (35-AGE)	FLUID MECHANICS AND OPEN CHANEEL HYDRAULICS	RENEWABLE ENERGY SOURCES	GROUND WATER HYDROLOGY, WELL AND PUMPS	ELECTRICAL SYSTEMS	PROPERTIES AND STRENGTH OF MATERIALS	SURVEYING

NOTE:

i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.
ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 27-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

TIME TABLE FOR II B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 14.07.2022 (Thursday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

Branch	Subject Already Studied	Substituted Subject
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Network Analysis	Data Structures
MECHANICAL ENGINEERING (03 - ME)	----	Basic Electrical and Electronics Engineering

TIME TABLE FOR II B.TECH I SEMESTER ADITIONAL SUBJECTS FOR READMITTED STUDENTS R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 21.07.2022 (Thursday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

Branch	Subject Already Studied	Recommended Additional Subjects as per R16 Regulations
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	---	Object Oriented Programming through C++

NOTE:

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iii. THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 27-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

TIME TABLE FOR II B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 28.07.2022 (Thursday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

Branch	Subject Already Studied	Substituted Subject
CIVIL ENGINEERING (01- CE)	Professional Ethics & Human Values	Elements of Mechanical Engineering
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	---	Electrical and Mechanical Technology

NOTE:

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DATE: 27-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

TIME TABLE FOR II B.TECH I SEMESTER (INTER UNIVERSITY TRANSFER)

DATE OF EXAMINATION: 28.07.2022 (Thursday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

Branch	Subject
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	Basic Electrical and Electronics Engineering (15A99301)

NOTE:

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DATE: 27-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
CIVIL ENGINEERING (01-CE)	Complex Variables and Statistical Methods **R1921011**	Strength of Materials-I **R1921012**	Fluid Mechanics **R1921013**	Surveying and Geometrics **R1921014**	Building Materials, Construction and Planning **R1921015**	Transportation Engineering-I **R1921016**
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Electrical Circuit Analysis - II **R1921021**	Electrical Machines-I **R1921022**	Electronic Devices and Circuits **R1921023**	Electro Magnetic Fields **R1921024**	Thermal and Hydro Prime movers **R1921025**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
MECHANICAL ENGINEERING (03-ME)	Vector Calculus & Fourier Transforms **R1921031**	Mechanics of Solids **R1921032** (Common to ME,AME)	Material Science & Metallurgy **R1921033**	Production Technology **R1921034**	Thermodynamics **R1921035** (Common to ME,AME)	Machine Drawing **R1921036**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Devices and Circuits **R1921041** (Common to ECE,EIE)	Switching Theory and Logic Design **R1921042** (Common to ECE,EIE)	Signals and Systems **R1921043** (Common to ECE,EIE)	Random Variables and Stochastic Processes **R1921044**	Object Oriented Programming through Java **R1921045**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Mathematical Foundations of Computer Science **R1921051**	Software Engineering **R1921052**	Python Programming **R1921053** (Common to CSE,IT)	Data Structures **R1921054** (Common to CSE,IT)	Computer Organization **R1921056** (Comm to CSE,IT)	Object Oriented Programming through C++ **R1921055**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Electronic Devices and Circuits **R1921041** (Common to ECE,EIE)	Switching Theory and Logic Design **R1921042** (Common to ECE,EIE)	Signals and Systems **R1921043** (Common to ECE,EIE)	Transducer Technology **R1921101**	Data structures **R1921102**	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
INFORMATION TECHNOLOGY (12-IT)	Discrete Mathematical Structures **R1921121**	Principles of Software Engineering **R1921122**	Python Programming **R1921053** (Common to CSE,IT)	Data Structures **R1921054** (Common to CSE,IT)	Computer Organization **R1921056** (Comm to CSE,IT)	Object Oriented Programming through C++ **R1921123**
AUTO MOBILE ENGINEERING (24-AME)	Metallurgy & Materials Science **R1921241**	Mechanics of Solids **R1921032** (Common to ME,AME)	Fluid Mechanics & Hydraulic Machines **R1921242** (Common to AME,MM)	Basic elements of Automobile Chassis **R1921243**	Thermodynamics **R1921035** (Common to ME.AME)	….

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH - I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**	**28-07-2022 (Thursday)**
MINING ENGINEERING (26-MM)	Development of Mineral Deposits **R1921261**	Mine Surveying-I **R1921262**	Fluid Mechanics & Hydraulic Machines **R1921242** (Common to AME,MM)	Mining Geology –I **R1921263**	….	Managerial Economics & Financial Analysis **R1921026** (Common to EEE,ECE,EIE,MM)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics- IV **R1921271**	Basic Electrical & Electronics Engineering **R1921272**	Materials Science & Engineering **R1921273**	Elements of Mechanical Engineering **R1921274**	Petroleum Geology **R1921275**	Chemical Process Principles **R1921276**
AGRICULTURAL ENGINEERING (35-AGE)	Mathematics - III **R1921351**	Fluid Mechanics and Open Channel Hydraulic **R1921352**	Renewable Energy Sources **R1921353**	Ground Water Hydrology, Well and Pumps **R1921354**	Properties and Strength of Materials **R1921355**	Electrical Systems **R1921356**

NOTE:

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DATE: 27-06-2022

Controller of Examinations

II B.TECH I SEMESTER (R20)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B TECH I SEMESTER (R20 REGULATION) SUPPLEMENTARY EXAMINATIONS, JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	14-07-2022 (Thursday)	**16-07-2022 (Saturday)**	**21-07-2022 (Thursday)**	**23-07-2022 (Saturday)**	**26-07-2022 (Tuesday)**
CIVIL ENGINEERING (01-CE)	Mathematics -III **R2021011** (Except EEE,FE)	Strength of Materials-I **R2021012**	Fluid Mechanics **R2021013**	Surveying and Geometrics **R2021014**	Highway Engineering **R2021015**
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Mathematics – IV **R2021021**	Electronic Devices and Circuits **R2021022**	Electrical Circuit Analysis –II **R2021023**	DC Machines and Transformers **R2021024**	Electro Magnetic Fields **R2021025**
MECHANICAL ENGINEERING (03-ME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Production Technology **R2021033**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Kinematics of Machinery **R2021034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Random Variables and Stochastic Processes **R2021044** (Common to ECE,ECT)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE, CST, CSE (AIML),AI,DS,CSE(AIDS),CSE (CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Object Oriented Programming through C++ **R2021051** (Common to CSE,IT)	Operating Systems **R2021052** (Common to CSE,CST, IT,CS,IOTCSBT,IOT,CS)	Software Engineering **R2021053**

COMPUTER SCIENE & TECHNOLOGY (06)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE (CS) CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT, CSE(CS),IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS), OITCSBT,IOT,CS)
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems **R2021043** (Common to ECE,EIE,ECT)	Electronic Measurements and Instrumentation **R2021101**
INFORMATION TECHNOLOGY (12-IT)	Mathematics -III **R2021011** (Except EEE,FE)	Discrete Mathematics and Graph Theory **R2021122**	Object Oriented Programming through C++ **R2021051** (Common to CSE, IT)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Database Management Systems **R2021121** (Common to IT,CSE(AIML), AI,DS,CSE(AIDS), AIDS,AIML)
ELECTRONICS & COMMUNICATION TECHNOLOGY (14)	Mathematics -III **R2021011** (Except EEE,FE)	Electronic Devices and Circuits **R2021041** (Common to ECE,EIE,ECT)	Switching Theory and Logic Design **R2021042** (Common to ECE,EIE,ECT)	Signals and Systems R2021043 (Common to ECE,EIE,ECT)	Random Variables and Stochastic Process **R2021044** (Common to ECE,ECT)
AUTO MOBILE ENGINEERING (24-AME)	Mathematics -III **R2021011** (Except EEE,FE)	Mechanics of Solids **R2021031** (Common to ME,AME)	Thermodynamics **R2021241**	Fluid Mechanics & Hydraulic Machines **R2021032** (Comm to ME,AME)	Components of Automobile Chassis **R2021242**
MINING ENGINEERING (26-MM)	Mathematics -III **R2021011** (Except EEE,FE)	Development of Mineral Deposits **R2021261**	Mine Surveying **R2021262**	Engineering and Economic Geology **R2021263**	Mineral Processing Technology **R2021264**
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics -III **R2021011** (Except EEE,FE)	Petroleum Geology **R2021271**	Fluid Mechanics for Petroleum Engineers **R2021272**	Heat Transfer Operations **R2021273**	Material and Energy Balances **R2021274**

AGRICULTURAL ENGINEERING (35-AGE)	Mathematics -III **R2021011** (Except EEE,FE)	Surveying and Leveling **R2021351**	Fluid Mechanics and Open Channel Hydraulics **R2021352**	Properties and Strength of Materials **R2021353**	Farm Power and Tractor Systems **R2021354**
CSE (Artificial Intelligence and Machine Learning) (42)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML), AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence) (43)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence **R2021431**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT, CSE(AIML), AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Data Science) (44)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Fundamentals of Data Science **R2021441**	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML), AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
CSE (Artificial Intelligence and Data Science) (45)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CS,IOTCSBT,CSBS,IOT,AIDS,AIML)	Introduction to Artificial Intelligence and Data Science **R2021451** (Comm to CSE(AIDS),AIDS)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML), AI,DS,CSE(AIDS), AIDS,AIML)
CSE (Cyber Security) (46)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML), AI,DS,CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS, OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)

CSE (Internet of things and Cyber security including Block chain Technology) (47)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE(AIML),AI,DS,CSE(AIDS), CSE(CS),IOTCSBT,CSBS,IOT, AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
CSE (Computer Science and Business System) (48)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CS,IOTCSBT,CSBS, IOT,AIDS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Formal Languages & Automata Theory **R2021481**	Computer Organization& Architecture **R2021482**
CSE (Internet of Things) (49)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS,IOT ,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT,CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CS,IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
FOOD ENGINEERING (51)	Probability and Statistics **R2021511**	Principles of Food Engineering -I **R2021512**	Mechanical Operations in Food Processing **R2021513**	Fluid Mechanics in Food Processing **R2021514**	Food Microbiology **R2021515**
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Data Science **R2021451** (Comm to CSE(AIDS),AIDS)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML),AI,DS, CSE(AIDS), AIDS,AIML)
PHARMACEUTICAL ENGINEERING (55)	Mathematics – III **R2021011** (Except EEE,FE) (Vector Calculus, Transforms and PDE)	Pharmacology **R2021551**	Material and Energy Balance Computations **R2021552**	Fluid Mechanics and Mechanical Unit Operations **R2021553**	Thermodynamics for pharmaceutical Engineers **R2021554**

CYBER SECURITY (59)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST,CSE(AIML),AI,DS, CSE(AIDS),CSE(CS),IOTCSBT,CSBS, IOT,AIDS,CS,AIML)	Data Structures **R2021061** (Common to CST,CSE(CS)CS,OITCSBT, CSBS,IOT,CS)	Operating Systems **R2021052** (Common to CSE,CST,IT,CSE(CS),IOTCSBT,IOT)	Java Programming **R2021062** (Comm to CST,CSE(CS),OITCSBT,IOT,CS)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Mathematics -III **R2021011** (Except EEE,FE)	Mathematical Foundations of Computer Science **R2021054** (Comm to CSE,CST, CSE (AIML),AI,DS,CSE(AIDS),CSE(CS), IOTCSBT,CSBS,IOT,AIDS,CS,AIML)	Introduction to Artificial Intelligence and Machine Learning **R2021421** (Common to CSE(AIML),AIML)	Object Oriented Programming with Java **R2021422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS ,AIML)	Database Management Systems **R2021121** (Common to IT,CSE(AIML) AI,DS,CSE(AIDS), AIDS,AIML)

NOTE:

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DATE: 27-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - II SEMESTER (R16 REGULATIONS) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY – 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

BRANCH	DATE AND DAY					
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**	**11-07-2022 (Monday)**
CIVIL ENGINEERING (01- CE)	BUILDING PLANNING AND DRAWING	HYDRAULICS AND HYDRAULIC MACHINERY	TRANSPORTATIO N ENGINEERING-I	CONCRETE TECHNOLOGY	STRUCTURAL ANALYSIS - I	STRENGTH OF MATERIALS- II
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	SWITCHING THEORY AND LOGIC DESIGN	ELECTRICAL MEASUREMENTS	CONTROL SYSTEMS	POWER SYSTEMS-I	ELECTRICAL MACHINES-II
MECHANICAL ENGINEERING (03 - ME)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	THERMAL ENGINEERING –I (Com. to ME,AME)	PRODUCTION TECHNOLOGY (Com. to ME, AME)	DESIGN OF MACHINE MEMBERS-I	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MACHINE DRAWING (Com. to ME, AME)
ELECTRONICS& COMMUNICATIONS ENGINEERING (04 - ECE)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	EM WAVES AND TRANSMISSION LINES (Com. to ECE, EIE)	ELECTRONIC CIRCUIT ANALYSIS (Com. to ECE, EIE)	CONTROL SYSTEMS (Com. to ECE,EIE,ECC)	ANALOG COMMUNICATIONS
COMPUTER SCIENCE& ENGINEERING (05 - CSE)	SOFTWARE ENGINEERING	JAVA PROGRAMMING (Com. to CSE, IT)	ADVANCED DATA STRUCTURES	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	FORMAL LANGUAGES AND AUTOMATA THEORY	PRINCIPLES OF PROGRAMMING LANGUAGES (Com. to CSE,IT)

CONTINUED ON PAGE – 2

II. B.TECH II SEMESTER (R16)

BRANCH	DATE AND DAY					
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**	**11-07-2022 (Monday)**
ELECTRONICS & INSTRUMENTATION ENGINEERING (10- EIE)	SIGNAL CONDITIONING	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	ELECTRO MAGNETIC WAVES AND TRANSMISSION LINES (Com. to ECE, EIE)	ELECTRONIC CIRCUIT ANALYSIS (Com. to ECE, EIE)	CONTROL SYSTEMS Com. to ECE,EIE,ECC)	PRINCIPLES OF COMMUNICATION (Com. to EIE, ECC)
INFORMATION TECHNOLOGY (12 - IT)	COMPUTER GRAPHICS	JAVA PROGRAMMING (Com. to CSE, IT)	OBJECT ORIENTED ANALYSIS AND DESIGN USING UML	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	E-COMMERCE	PRINCIPLES OF PROGRAMMING LANGUAGES(Com. to CSE,IT)
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	MANAGEMENT SCIENCE (EEE,ECE,ECC)	PULSE AND DIGITAL CIRCUITS (Com. to ECE,EIE,ECC)	OBJECT ORIENTED PROGRAMMING	COMPUTER ORGANIZATION (Com. to CSE, IT, ECC)	CONTROL SYSTEMS (Com. to ECE,EIE,ECC)	PRINCIPLES OF COMMUNICATION (Com. to EIE, ECC)
AERONUTICAL ENGINEERING (21 - AE)	AIRCRAFT SYSTEM AND INSTRUMENTS	APPLIED THERMODYNAMICS	ELEMENTS OF HEAT TRANSFER	MANUFACTURING TECHNOLOGY	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	AERODYNAMICS -I

CONTINUED ON PAGE – 3

II. B.TECH II SEMESTER (R16)

PAGE-3

BRANCH	DATE AND DAY					
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**	**11-07-2022 (Monday)**
AUTO MOBILE ENGG. (AME-24)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	THERMAL ENGINEERING-I (Com. to ME.AME)	PRODUCTION TECHNOLOGY (Com. to ME, AME)	FLUID MECHANICS AND HYDRAULIC MACHINERY	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MACHINE DRAWING (Com. to ME, AME, MM)
MINING – (26-MM)	KINEMATICS OF MACHINERY (Com. to ME, AME, MM)	MATERIAL ENGINEERING	SURFACE MINING	MINE SURVEYING -I	INDUSTRIAL ENGINEERING AND MANAGEMENT (Com. to ME, AE,AME,Min E)	MINING GEOLOGY - II
PETROLEUM ENGINEERING (27-PE)	PROBABILITY AND STATISTICS	PETROLEUM EXPLORATION	THERMODYNAMICS FOR PETROLEUM ENGINEERS	PETROLEUM GEOLOGY	PROCESS HEAT TRANSFER	MOMENTUM TRANSFER
AGRICULTURAL ENGINEERING (35-AGE)	HEAT AND MASS TRANSFER	THEORY OF MACHINES	FARM POWER AND TRACTOR SYSTEMS	SURFACE WATER HYDROLOGY	SOIL MECHANICS	THEORY OF STRUCTURES

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DATE: 14-06-2022

Controller of Examinations

TIME TABLE OF II B.TECH II SEMESTER ADITIONAL SUBJECTS FOR READMITTED STUDENTS FROM R16 REGULATIONS

DATE OF EXAMINATION: 11-07-2022 (Monday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

BRANCH	SUBJECT ALREADY STUDIED	SUBSTITUTED SUBJECT
COMPUTER SCIENCE& ENGINEERING (05 - CSE)	------	OBJECT ORIENTED PROGRAMMING THROUGH C++ (**AR161215**)

TIME TABLE OF II B.TECH II SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R16 REGULATIONS

DATE OF EXAMINATION: 11-07-2022 (Monday)	TIME OF EXAMINATION: 10.00 AM TO 01.00 PM

BRANCH	SUBJECT ALREADY STUDIED	SUBSTITUTED SUBJECT
MECHANICAL ENGINEERING (03 - ME)	PROFESSIONAL ETHICS AND HUMAN VALUES	FLUID MECHANICS & HYDRAULIC MACHINERY (P1622031)

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Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - II SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**	**11-07-2022 (Monday)**
CIVIL ENGINEERING (01-CE)	Strength of Materials-II **R1922011**	Hydraulics and Hydraulic Machinery **R1922012**	Engineering Geology **R1922013**	Transportation Engineering - II **R1922014**	Environmental Engineering - I **R1922015**	…..
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Electrical Measurements & Instrumentation **R1922021**	Electrical Machines-II **R1922022**	Digital Electronics **R1922023**	Control Systems **R1922024**	Power Systems-I **R1922025**	Signals and Systems **R1922026**
MECHANICAL ENGINEERING (03-ME)	Complex Variables & Statistical Methods **R1922031**	Kinematics of Machinery **R1922032** (Common to ME,AME)	Applied Thermodynamics **R1922033**	Fluid Mechanics & Hydraulic Machines **R1922034**	Metal Cutting & Machine Tools **R1922035**	Design of Machine Members-I **R1922036**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Circuit Analysis **R1922041**	Linear Control Systems **R1922042**	Electromagnetic Waves and Transmission Lines **R1922043**	Analog Communications **R1922044**	Computer Architecture and Organization **R1922045**	Management and Organizational Behavior **R1922046**
COMPUTER SCIENE & ENGINEERING (05-CSE)	Probability and Statistics **R1922051** (Common to CSE,IT)	Java Programming **R1922052** (Common to CSE,IT)	Operating Systems **R1922053**	Database Management Systems **R1922054** (Common to CSE,IT)	Formal Languages and Automata Theory **R1922055**	…..
INFORMATION TECHNOLOGY (12-IT)	Probability and Statistics **R1922051** (Common to CSE,IT)	Java Programming **R1922052** (Common to CSE,IT)	Operating Systems **R1922121**	Database Management Systems **R1922054** (Common to CSE,IT)	Theory of Computation **R1922122**	…..
AUTO MOBILE ENGINEERING (24-AME)	Applied Thermodynamics **R1922241**	Kinematics of Machinery **R1922032** (Common to ME,AME)	Automotive Engines **R1922242**	Production Technology **R1922243**	Automotive Electrical and Electronics **R1922244**	Automobile Assembly Drawing **R1922245**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH - II SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE					
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MINING ENGINEERING (26-MM)	Drilling and Blasting **R1922261**	Mechanics of Solids **R1922262**	Mining Geology –II **R1922263**	Mine Surveying – II **R1922264**	Surface Mining **R1922265**	Mine Environmental Engineering-I **R1922266**
PETROLEUM ENGINEERING/ PETROLEUM TECHNOLOGY (27-PE)	Fluid Mechanics for Petroleum Engineers **R1922271**	Thermodynamics for Petroleum Engineers **R1922272**	Process Instrumentation **R1922273**	Petroleum Exploration **R1922274**	Petroleum Reservoir Engineering – I **R1922275**	Process Heat Transfer **R1922276**
AGRICULTURAL ENGINEERING (35-AGE)	Theory of Structures **R1922351**	Heat and Mass Transfer **R1922352**	Theory of Machines **R1922353**	Soil Mechanics **R1922354**	Surface Water Hydrology **R1922355**	Farm Power and Tractor Systems **R1922356**

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DATE: 14-06-2022

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
CIVIL ENGINEERING (01-CE)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Strength of Materials -II **R2022012**	Hydraulics and Hydraulic Machinery **R2022013**	Environmental Engineering **R2022014**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Python Programming **R2022021** (Common to EEE, FE)	Digital Electronics **R2022022**	Power System-I **R2022023**	Induction and Synchronous Machines **R2022024**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
MECHANICAL ENGINEERING (03-ME)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Material Science & Metallurgy **R2022031**	Dynamics of Machinery **R2022032**	Thermal Engineering-I **R2022033**	Industrial Engineering and Management **R2022034**
ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Digital IC Design **R2022042**	Analog Communications **R2022043** (Common to ECE,ECT)	Linear Control Systems **R2022044** (Common to ECE,EIE)	Management and Organizational Behavior **R2022045** (Common to ECE, PE)
COMPUTER SCIENE & ENGINEERING (05-CSE)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
COMPUTER SCIENE & TECHNOLOGY (06)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Microprocessor and Microcontrollers **R2022101**	Integrated Circuits and applications **R2022102**	Linear Control Systems **R2022044** (Common to ECE,EIE)	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
INFORMATION TECHNOLOGY (12-IT)	Statistics with R **R2022121**	Principles of Software Engineering **R2022122**	Automata Theory and Compiler Design **R2022123**	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ELECTRONICS & COMMUNICATION TECHNOLOGY (14)	Electronic Circuit Analysis **R2022041** (Comm to ECE,EIE,ECT)	Computer Architecture and Organization **R2022141**	Analog Communications **R2022043** (Common to ECE,ECT)	Electromagnetic Waves and Transmission Lines **R2022142**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
AUTO MOBILE ENGINEERING (24-AME)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Applied Thermodynamics **R2022241**	Automobile Engines **R2022242**	Automobile Electrical and Electronics **R2022243**	Operations Research **R2022244**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
MINING ENGINEERING (26-MM)	Complex Variables and Statistical Methods **R2022011** (Comm to CE,ME,AME,MM)	Fluid Mechanics and Hydraulic Power **R2022261**	Rock Mechanics **R2022262**	Mine Ventilation **R2022263**	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Mathematics –IV **R2022271**	Instrumentation, Process Dynamics & Control **R2022272**	Thermodynamics for Petroleum Engineers **R2022273**	Drilling & Well Completions **R2022274**	Management and Organizational Behavior **R2022045** (Common to ECE, PE)
AGRICULTURAL ENGINEERING (35-AGE)	Heat and Mass Transfer **R2022351**	Ground Water Hydrology, Well and Pumps **R2022352**	Theory of Structures **R2022353**	Soil Mechanics **R2022354**	Managerial Economics & Financial Analysis **R2022015** (Comm to CE,EEE,EIE,ECT,AGE,FE)
CSE (Artificial Intelligence and Machine Learning) (42)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Artificial Intelligence) (43)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
CSE (Data Science) (44)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Artificial Intelligence and Data Science) (45)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Cyber Security) (46)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
CSE (Internet of things and Cyber security including Block chain Technology) (47)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
CSE (Computer Science and Business System) (48)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Operating Systems **R2022481** (Common to CSE(CSBS), CS)	Java Programming **R2022054** (Common to CSE,IT,CSE(CSBS),CS)	Fundamentals of Economics **R2022482**
CSE (Internet of Things) (49)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
FOOD ENGINEERING (51)	Python Programming **R2022021** (Common to EEE, FE)	Principles of Food Engineering - II **R2022511**	Food Chemistry **R2022512**	Processing of Cereals, Pulses and Oilseeds **R2022513**	Managerial Economics & Financial Analysis **R2022015** (Common to CE,EEE,EIE,ECT,AGE,FE)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS),AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH II SEMESTER (R20 REGULATION) REGULAR EXAMINATIONS, JUNE/JULY - 2022

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE				
	28-06-2022 (Tuesday)	**30-06-2022 (Thursday)**	**02-07-2022 (Saturday)**	**05-07-2022 (Tuesday)**	**07-07-2022 (Thursday)**
PHARMACEUTICAL ENGINEERING (55)	Heat Transfer for Pharmaceutical Engineers **R2022551**	Physical Pharmaceutics **R2022552**	Principles of Microbiology and Biochemistry **R2022553**	Reaction Engineering for Pharmaceutical Engineers **R2022554**	Anatomy and Physiology **R2022555**
CYBER SECURITY (59)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Database Management Systems **R2022052** (Common to CSE,CST,CSE(CS),CSE(IOTCSIBCT), CSE(CSBS),CSE(IOT)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Computer Organization& Architecture **R2022061** (Common to CST, CSE(CS), CSE(IOTCSIBCT), CSE(IOT))	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Probability and Statistics **R2022051** (Common to CSE,CST,CSE(AIML)CSE(AI),CSE(DS)CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(CSBS),CSE(IOT),AIDS,AIML)	Computer Organization **R2022421** (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Formal Languages and Automata Theory **R2022053** (Common to CSE,CST,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)	Data Warehousing and Mining **R2022422** (Comm to CSE(AIML),AI,DS,CSE(AIDS), AIDS,AIML)	Managerial Economics and Financial Accountancy **R2022055** (Common to CSE,CST,IT,MM,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),CSE(CS),CSE(IOTCSIBCT),CSE(IOT),AIDS,AIML)

NOTE:

(i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.

(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 14-06-2022

Controller of Examinations

III B.TECH I SEMESTER (R16)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH - I SEMESTER (R16 REGULATIONS) SUPPLEMENTARY EXAMINATIONS, JUNE/JULY – 2022

T I M E T A B L E

TIME : 10.00 AM TO 01.00 PM

BRANCH	DATE AND DAY				
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**
CIVIL ENGINEERING (01- CE)	Transportation Engineering-II (R1631015)	Structural Analysis – II (R1631013)	Design and Drawing of Reinforced Concrete Structures (R1631014)	Engineering Geology (R1631012)	Management Science (Com. to CE,PE) (R1631011)
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - EEE)	Pulse & Digital Circuits (R1631024)	Renewable Energy Sources (R1631022)	Power Systems-II (R1631021)	Signals and Systems (R1631023)	Power Electronics (R1631025)
MECHANICAL ENGINEERING (03 - ME)	Dynamics of Machinery (R1631031)	Metal Cutting & Machine Tools (R1631032)	Design of Machine Members–II (R1631033)	Operations Research (R1631034)	Thermal Engineering – II (R1631035)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Computer Architecture and Organization (Com. to ECE,EIE) (R1631041)	Linear IC Applications (Com. to ECE,EIE) (R1631042)	Digital Communications (R1631044)	Digital IC Applications (Com. to ECE,EIE) (R1631043)	Antennas and Wave Propagation (R1631045)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	Compiler Design (R1631051)	Unix Programming (Com. to CSE,IT) (R1631052)	Object Oriented Analysis and Design using UML (R1631053)	Database Management Systems (Com. to CSE,IT) (R1631054)	Operating Systems (Com. to CSE,IT) (R1631055)

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BRANCH	DATE AND DAY				
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10- EIE)	Computer Architecture and Organization (Com. to ECE,EIE) (R1631041)	Linear IC Applications (Com. to ECE,EIE) (R1631042)	Digital Signal Processing (R1631102)	Digital IC Applications (Com. to ECE,EIE) (R1631043)	Process Instrumentation (R1631101)
INFORMATION TECHNOLOGY (12 - IT)	Human Computer Interaction (R1631121)	Unix and Shell Programming (Com. to CSE,IT) (R1631052)	Advanced JAVA Programming (R1631122)	Database Management Systems (Com. to CSE,IT) (R1631054)	Operating Systems (Com. to CSE,IT) (R1631055)
ELECTRONICS AND COMPUTER ENGINEERING (19 - ECC)	Computer Graphics (R1631191)	Linear IC Applications (Com. To ECE,EIE,ECom E) (R1631042)	Design and Analysis of Algorithms (R1631193)	Digital IC Applications (Com. to ECE,EIE,ECom E) (R1631043)	Computer Networks (R1631192)
AERONAUTICAL ENGINEERING (21 - AE)	Aircraft Performance (R1631211)	Aerodynamics – II (R1631212)	Aircraft Structures-I (R1631213)	Propulsion – I (R1631214)	Theory of Machines (R1631215)

CONTINUED ON PAGE – 3

BRANCH	DATE AND DAY				
	27-06-2022 (Monday)	**29-06-2022 (Wednesday)**	**01-07-2022 (Friday)**	**04-07-2022 (Monday)**	**06-07-2022 (Wednesday)**
AUTOMOBILE ENGINEERING (AME-24)	Dynamics of Machinery (R1631241)	Heat Transfer (R1631245)	Design of Machine Elements (R1631243)	Vehicle Transport Management (R1631244)	Fuels and Combustion (R1631242)
MINING ENGINEERING (26-MM)	Under Ground Coal Mining Technology (R1631261)	Mining Machinery & Mechanization-I (R1631265)	Mine Environment Engineering – I (R1631262)	Electrical Equipment in Mines (R1631263)	Mine Surveying-II (R1631264)
PETROLEUM ENGINEERING/PETROLEUM TECHNOLOGY (27-PE)	Process Instrumentation (R1631272)	Well Logging & Formation Evaluation (R1631273)	Drilling Technology (R1631274)	Process Dynamics & Control (R1631271)	Management Science (Com. to CE,PE) (R1631011)
AGRICULTURAL ENGINEERING (35-AGE)	Thermodynamics and Refrigeration Systems (R1631351)	Managerial Economics and Financial Analysis (R1631355)	Soil and Water Conservation Engineering (R1631352)	Agricultural Process Engineering (R1631353)	Engineering Properties of Biological Materials and Food Quality (R1631354)

NOTE:

i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.
ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 13-06-2022

Controller of Examinations

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 08-07-2022 (Friday)		TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
CIVIL ENGINEERING (01 - CE)	----	Transportation Engineering-I (P1622016)
ELECTRICAL AND ELECTRONICS ENGINEERING (02 - ME)	----	Managerial Economics & Financial Analysis (P1621026)
MECHANICAL ENGINEERING (03 - ME)	----	Design of Machine Members-I (P1622034)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Professional Ethics & Human Values	Control Systems (P1622042)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	---	Engineering Mechanics (P161111)
INFORMATION TECHNOLOGY (12-IT)	Professional Ethics & Human Values	Software Engineering (P1621121)

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 08-07-2022 (Friday)		TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	----	Environmental Studies (P161212)

NOTE:

i ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.
ii EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
iii THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 13-06-2022

Controller of Examinations

TIME TABLE OF III B.TECH I SEMESTER SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS FROM R13 TO R16 REGULATIONS

DATE OF EXAMINATION: 12-07-2022 (Tuesday)		**TIME OF EXAMIANTION: 10.00 AM TO 01.00 PM**
BRANCH	**ALREADY STUDIED SUBJECT**	**SUGGESTED SUBJECT**
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 - ECE)	Professional Ethics & Human Values	Pulse & Digital Circuits (P1622045)
COMPUTER SCIENCE & ENGINEERING (05 - CSE)	----	Python Programming

NOTE:

i ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.
ii EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
iii THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

DATE: 13-06-2022

Controller of Examinations