VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

(AUTONOMOUS)

Ref.No. VIT/AS/ACD/ /2021 Date:20-11-2021

ACADEMIC CALENDAR FOR I B.TECH -I & II SEMESTER

The Academic Calendar for I B.Tech -I & II Semester for the Academic Year 2021-22.

I B.Tech I Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**22-11-2021**		
Induction Classes	**22-11-2021**	27-11-2021	1W
I Unit of Instructions	29-11-2021	15-01-2022	7W
I Mid Examinations	17-01-2022	22-01-2022	1W
II Unit of Instructions	24-01-2022	12-03-2022	7W
II Mid Examination	14-03-2022	19-03-2022	1W
Preparation & Practical Examinations	21-03-2022	26-03-2022	1W
End Examinations	28-03-2022	09-04-2022	2W
Commencement of Class Work	**11-04-2022**		
I B.Tech II Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	11-04-2022	28-05-2022	7W
I Mid Examinations	30-05-2022	04-06-2022	1W
II Unit of Instructions	06-06-2022	23-07-2022	7W
II Mid Examination	25-07-2022	30-07-2022	1W
Preparation & Practical Examinations	01-08-2022	06-08-2022	1W
End Examinations	08-08-2022	20-08-2022	2W
Commencement of II B.Tech I Semester Class work	**22-08-2022**		
Note:Calendar is prepared with 8hrs/day 7 weeks per instruction period			

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

(AUTONOMOUS)

Ref.No. VIT/AS/ACD/ /2021

Date:22-02-2022

REVISED ACADEMIC CALENDAR FOR I B.TECH -I & II SEMESTER

The Revised Academic Calendar for I B.Tech -I & II Semester for the Academic Year 2021-22.

I B.Tech I Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**22-11-2021**		
Induction Classes	**22-11-2021**	27-11-2021	1W
I Unit of Instructions	29-11-2021	22-01-2022	8W
II Unit of Instructions	24-01-2022	26-02-2022	5W
I Mid Examinations	28-02-2022	05-03-2022	1W
II Unit of Instructions Continue	07-03-2022	26-03-2022	3W
II Mid Examination	28-03-2022	02-04-2022	1W
Preparation & Practical Examinations	04-04-2022	09-04-2022	1W
End Examinations	11-04-2022	23-04-2022	2W
Commencement of I B.Tech II Semester Class Work	**25-04-2022**		
I B.Tech II Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	**25-04-2022**	11-06-2022	7W
I Mid Examinations	13-06-2022	18-06-2022	1W
II Unit of Instructions	20-06-2022	06-08-2022	7W
II Mid Examination	08-08-2022	13-08-2022	1W
Preparation & Practical Examinations	15-08-2022	20-08-2022	1W
End Examinations	22-08-2022	03-09-2022	2W
Commencement of II B.Tech I Semester Class work	**05-09-2022**		

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

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Ref.No. VIT/AS/ACD/ /2021

Date:23-10-2021

ACADEMIC CALENDAR FOR II B.TECH -I & II SEMESTER

The Academic Calendar for II B.Tech -I & II Semester for the Academic Year 2021-22.

II B.Tech I Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**25-10-2021**		
I Unit of Instructions	**25-10-2021**	11-12-2021	7W
I Mid Examinations	13-12-2021	18-12-2021	1W
II Unit of Instructions	20-12-2021	05-02-2022	7W
II Mid Examination	07-02-2022	12-02-2022	1W
Preparation & Practical Examinations	14-02-2022	19-02-2022	1W
End Examinations	21-02-2022	05-03-2022	2W
Commencement of Class Work	07-03-2022		

II B.Tech II Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	07-03-2022	23-04-2022	7W
I Mid Examinations	25-04-2022	30-04-2022	1W
II Unit of Instructions	02-05-2022	18-06-2022	7W
II Mid Examination	20-06-2022	25-06-2022	1W
Preparation & Practical Examinations	27-06-2022	02-07-2022	1W
End Examinations	04-07-2022	16-07-2022	2W
Commencement of III B.Tech I Semester Class work	**18-07-2022**		
Note:Calendar is prepared with 8hrs/day 7 weeks per instruction period			

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

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Ref.No. VIT/AS/ACD/ /2022 Date:21-03-2022

REVISED ACADEMIC CALENDAR FOR II B.TECH -I & II SEMESTER

The Revised Academic Calendar for II B.Tech -I & II Semester for the Academic Year 2021-22.

II B.Tech I Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**25-10-2021**		
I Unit of Instructions	**25-10-2021**	18-12-2021	8W
I Mid Examinations	20-12-2021	25-12-2021	1W
II Unit of Instructions	27-12-2021	19-02-2022	8W
II Mid Examination	21-02-2022	26-02-2022	1W
Preparation & Practical Examinations	28-02-2022	05-03-2022	1W
End Examinations	07-03-2022	19-03-2022	2W
Commencement of Class Work	21-03-2022		
II B.Tech II Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	21-03-2022	07-05-2022	7W
I Mid Examinations	09-05-2022	14-05-2022	1W
II Unit of Instructions	16-05-2022	02-07-2022	7W
II Mid Examination	04-07-2022	09-07-2022	1W
Preparation & Practical Examinations	11-07-2022	16-07-2022	1W
End Examinations	18-07-2022	30-07-2022	2W
Commencement of III B.Tech I Semester Class work	**01-08-2022**		
Note:Calendar is prepared with 8hrs/day 7 weeks per instruction period			

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

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Ref.No. VIT/AS/ACD/ /2021 Date:30-09-2021

ACADEMIC CALENDAR FOR III B.TECH -I & II SEMESTER

The Academic Calendar for III B.Tech -I & II Semester for the Academic Year 2021-22.

III B.Tech I Semester (2019 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**01-10-2021**		
I Unit of Instructions	**01-10-2021**	20-11-2021	7W
I Mid Examinations	22-11-2021	27-11-2021	1W
II Unit of Instructions	29-11-2021	15-01-2022	7W
II Mid Examination	17-01-2021	22-01-2022	1W
Preparation & Practical Examinations	24-01-2022	29-01-2022	1W
End Examinations	31-01-2022	12-02-2022	2W
Commencement of Class Work	14-02-2022		

III B.Tech II Semester (2019 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	14-02-2022	02-04-2022	7W
I Mid Examinations	04-04-2022	09-04-2022	1W
II Unit of Instructions	11-04-2022	28-05-2022	7W
II Mid Examination	30-05-2022	04-06-2022	1W
Preparation & Practical Examinations	06-06-2022	11-06-2022	1W
End Examinations	13-06-2022	25-06-2022	2W
Commencement of Next year Class work	27-06-2022		
Note:Calendar is prepared with 8hrs/day 7 weeks per instruction period			

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM

(AUTONOMOUS)

Ref.No. VIT/AS/ACD/ /2022 Date:26-02-2022

REVISED ACADEMIC CALENDAR FOR III B.TECH -I & II SEMESTER

The Revised Academic Calendar for III B.Tech -I & II Semester for the Academic Year 2021-22.

III B.Tech I Semester (2019 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**01-10-2021**		
I Unit of Instructions	**01-10-2021**	27-11-2021	8W
I Mid Examinations	29-11-2021	04-12-2021	1W
II Unit of Instructions	06-12-2021	29-01-2022	8W
II Mid Examination	31-01-2021	05-02-2022	1W
Preparation & Practical Examinations	07-02-2022	12-02-2022	1W
End Examinations	14-02-2022	26-02-2022	2W
Commencement of Class Work	28-02-2022		
III B.Tech II Semester (2019 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	28-02-2022	02-04-2022	8W
I Mid Examinations	25-04-2022	30-04-2022	1W
II Unit of Instructions	01-05-2022	25-06-2022	8W
II Mid Examination	27-06-2022	02-07-2022	1W
Preparation & Practical Examinations	04-07-2022	09-07-2022	1W
End Examinations	11-07-2022	23-07-2022	2W
Commencement of Next year Class work	25-07-2022		

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

Phone: 0884-2300991

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. DAP/RAC/ II,III & IV Year /B. Tech/B. Pharmacy/2021 *Date 08.10.2021*

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

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

Revised Academic Calendar for II, III, IV Year - B. Tech/B. Pharmacy for the AY 2021-22
(As per G.O. Rt. No. 242, Higher Education (U.E) Dept., dated 13.09.2021)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**01.10.2021**		
I Unit of Instruction	01.10.2021	20.11.2021	7W
I Mid Examinations	22.11.2021	27.11.2021	1W
II Unit of Instructions	29.11.2021	15.01.2022	7W
II Mid Examinations	17.01.2022	22.01.2022	1W
Preparation & Practicals	24.01.2022	29.01.2022	1W
End Examinations	31.01.2022	12.02.2022	2W
Commencement of II Semester Class Work	**14.02.2022**		
II SEMESTER			
I Unit of Instructions	**14.02.2022**	02.04.2022	7W
I Mid Examinations	04.04.2022	09.04.2022	1W
II Unit of Instructions	11.04.2022	28.05.2022	7W
II Mid Examinations	30.05.2022	04.06.2022	1W
Preparation & Practicals	06.06.2022	11.06.2022	1W
End Examinations	13.06.2022	25.06.2022	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

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VISHNU INSTITUTE OF TECHNOLOGY::BHIMAVARAM

(AUTONOMOUS)

Ref.No. VIT/AS/ACD/ /2022 Date: 10-01-2022

ACADEMIC CALENDAR FOR M.TECH -I & II SEMESTER

The Academic Calendar for M.TECH -I & II Semester for the Academic Year 2021-22.

M.TECH I Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**17-01-2022**		
I Unit of Instructions	**17-01-2022**	05-03-2022	7W
I Mid Examinations	07-03-2022	12-03-2022	1W
II Unit of Instructions	14-03-2022	30-04-2022	7W
II Mid Examination	02-05-2022	07-05-2022	1W
Preparation & Practical Examinations	09-05-2022	14-05-2022	1W
End Examinations	16-05-2022	28-05-2022	2W
Commencement of II Semester Class Work	**30-05-2022**		
M.TECH II Semester (2021 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	**30-05-2022**	16-07-2022	7W
I Mid Examinations	18-07-2022	23-07-2022	1W
II Unit of Instructions	25-07-2022	10-09-2022	7W
II Mid Examination	12-09-2022	17-09-2022	1W
Preparation & Practical Examinations	19-09-2022	24-09-2022	1W
End Examinations	26-09-2022	08-10-2022	2W
Commencement of M.TECH III Semester Class work	**10-10-2022**		

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Ref.No. VIT/AS/ACD/ /2021

Date: 16-10-2021

ACADEMIC CALENDAR FOR II M.TECH -I & II SEMESTER

The Academic Calendar for II M.TECH -I & II Semester for the Academic Year 2021-22.

II M.TECH I Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work & Commencement of Project Work Phase-1	**18-10-2021**		
I Unit of Instructions	**18-10-2021**	04-12-2021	7W
I Mid Examinations	06-12-2021	11-12-2021	1W
II Unit of Instructions	13-12-2021	29-01-2022	7W
II Mid Examination	31-01-2022	05-02-2022	1W
Preparation & Practical Examinations	07-02-2022	12-02-2022	1W
End Examinations	14-02-2022	26-02-2022	2W
Commencement of II Semester Class Work	**28-02-2022**		
II M.TECH II Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Project Work Phase-II	**28-02-2022**	04-06-2022	14W
Theses Submission Duration	06-06-2022	02-07-2022	4W
Note: Calendar is prepared with 8hrs/day hence 7 weeks per instruction period			

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Ref.No. VIT/AS/ACD/ /2021 Date: 16-10-2021

ACADEMIC CALENDAR FOR MBA -III & IV SEMESTER

The Academic Calendar for MBA –III & IV Semester for the Academic Year 2021-22.

MBA III Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
Commencement of Class Work	**18-10-2021**		
I Unit of Instructions	**18-10-2021**	04-12-2021	7W
I Mid Examinations	06-12-2021	11-12-2021	1W
II Unit of Instructions	13-12-2021	29-01-2022	7W
II Mid Examination	31-01-2022	05-02-2022	1W
Preparation & Practical Examinations	07-02-2022	12-02-2022	1W
End Examinations	14-02-2022	26-02-2022	2W
Commencement of II Semester Class Work	**07-03-2022**		
MBA IV Semester (2020 Admitted Batch)			
Description	**From**	**To**	**Duration (Weeks)**
I Unit of Instructions	**07-03-2022**	23-04-2022	7W
I Mid Examinations	25-04-2022	30-04-2022	1W
II Unit of Instructions	02-05-2022	18-06-2022	7W
II Mid Examination	20-06-2022	25-06-2022	1W
Preparation & Practical Examinations	27-06-2022	02-07-2022	1W
End Examinations	04-07-2022	16-07-2022	2W
Project Viva	**18-07-2022**	**30-07-2022**	2W
Note: Calendar is prepared with 8hrs/day hence 7 weeks per instruction period			

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VISHNU INSTITUTE OF TECHNOLOGY: BHIMAVARAM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LESSON PLAN

Faculty Name: I.V.V.VIJETHA **Subject Code: 20EE3T03**
Designation: Asst. Prof **Branch: EEE**
Regulation: R20 **Year/Sem: II-I**
Subject: Electrical Machines-I **Section: EEE**

S. No	No. of Hours	Date	Topic	Reference Book-Page No.	COs
UNIT-I Electromechanical Energy Conversion and Introduction to DC Generator					
1	2	25.10.21 26.10.21	Principles of electromechanical energy conversion	T1-161	**CO1**
2	2	27.10.21	Singly excited and multi excited system	T1- 164&192	
3	1	28.10.21 29.10.21	Calculation of force and torque using the concept of co-energy.	R6-95&105	
4	2	30.10.21 01.11.21	Construction and principle of operation of DC machine	R6-162	
5	4	02.11.21 03.11.21 05.11.21 06.11.21	EMF equation for generator, Classification of DC machines based on excitation	R6-193,227	
6	1	08.11.21	OCC of DC shunt generator.	R6-236	
7	2	09.11.21 10.11.21	Internal and External characteristics of DC shunt generator.	R6-239	
8	1	11.11.21	Tutorial	T1-161	
No. of Hours Required: 15					
Unit-II: DC Motors					
9	2	12.11.21 13.11.21	Principle of operation –Types	R6-306	**CO2**
10	2	15.11.21 16.11.21	Torque equation and back-emf of dc motors	R6-310	
11	2	17.11.21 18.11.21	Characteristics of separately-excited, shunt motors	T1-429	
12	1	19.11.21	Characteristics of series and compound motors	T1-431	
13	2	20.11.21 22.11.21	Necessity of starter – Starting by 3 point and 4 point starters	R6-374	
14	3	23.11.21 24.11.21 25.11.21	Speed control by armature voltage and field control	R6-345	
15	2	26.11.21 27.11.21	Losses and efficiency of D.C. Machines	T1-490	
16	1	29.11.21	Applications of dc motors.	T1-521	
17	1	30.11.21	Tutorial		
No. of Hours Required: 16					
UNIT–III: Testing of D.C. Machines & Single Phase Transformers					
Testing of D.C. Machines					
18	2	01.12.21 02.12.21	Testing of DC machines - brake test	R6-421	
19	3	03.12.21 04.12.21 06.12.21	Swinburne's method – principle of regenerative or Hopkinson's method	R6-422	

20	3	07.12.21 08.12.21 09.12.21	Retardation test -- separation of losses.	R6-432	**CO3**
21	2	10.12.21 11.12.21	Problems	R6-448	
22	1	20.12.21	Tutorial		
Single-phase Transformers					
23	3	21.12.21 22.12.21 23.12.21	Types and constructional details - principle of operation - emf equation	T1-2 &R6-part-iii-3	
24	3	24.12.21 27.12.21 28.12.21	Operation on no load and on load	T1-10	
25	2	29.12.21 30.12.21	Lagging, leading and unity power factors loads	R6-part-iii-17	
26	3	31.12.21 03.01.22 04.01.22	Phasor diagrams of transformers – equivalent circuit	R6-part-iii-17	
27	1	05.01.22	Tutorial		
No. of Hours Required: 23					
UNIT – IV: Testing of Single-phase Transformers					
28	2	06.01.22 07.01.22	Tests on single phase transformers – open circuit and short circuit tests	T1-66	**CO4**
29	2	08.01.22 10.01.22	Regulation – losses and efficiency	T1-40 & 49	
30	2	11.01.22 12.01.22	Sumpner's test – separation of losses	R6-part-iii-40	
31	1	20.01.22	Problems	R6-part-iii-41	
32	2	21.01.22 22.01.22	Parallel operation with equal voltage ratios	T1-84	
33	1	24.01.22	Problems	T1-91	
34	1	25.01.22	All day efficiency.	R6-part-iii-60	
35	1	27.01.22	Auto transformer (Qualitative treatment only).	T1-70 & R6-part-iii-42	
36	1	28.01.22	Problems	R6-part-iii-43	
37	1	29.01.22	Tutorial		
No. of Hours Required: 14					
UNIT – V: 3-Phase Transformers					
38	1	31.01.22	Poly phase connections - Y/Y, Y/Δ, Δ/Y, Δ/Δ and open Δ	R6-part-iii-94	**CO5**
39	1	01.02.22	Third harmonics in phase voltages	R6-part-iii-114	
40	1	02.02.22	Three winding transformers: determination of Zp, Zs and Zt	R6-part-iii-118	
41	1	03.02.22	Off load and On load tap changers	R6-part-iii-153	
42	1	04.02.22	Scott connection.	R6-part-iii-109	
43	1	05.02.22	Tutorial	R6-part-iii-94	
No. of Hours Required: 6					
Total No. of Hours Required: 74					

Text Books:

T1. Electric Machines by P.S. Bhimbhra, Khanna Publishers, 2nd Edition, 2017.

T2. Electric Machinery by A.E.Fitzgerald, Charles Kingsley, Stephen D.Umans, Mc Graw Hill Education,6th Edition,24th Reprint 2012.

T3.The Performance and Design of Alternating Current Machines by M. G. Say, CBS Publishers, 3rd Edition, 2002.

Reference Books:

R1. Theory & Performance of Electrical Machines by J.B.Gupta, S.K.Kataria& Sons, Reprint 2013Edition.

R2. Electrical Machines by S.K. Bhattacharya,Mc Graw hill Education,4th Edition 2017

R3. Electric Machines by I.J. Nagrath & D.P. Kothari, McGraw Hill Education, 5thEdition 2017.

OUTCOMES:

COURSE OUTCOMES:

After completion of this course the students are

- Able to explain the principles of electromechanical energy conversion and operation of DC generators.
- Able to analyze the operating characteristics and performance of DC motors.
- Able to describe the methods of testing methods of DC motors and principle of transformers.
- Able to analyze the performance and methods of testing of single phase transformers.
- Able to understand the three phase transformers and analyze the three phase to two phase conversion.

Vishnu Institute of Technology: Autonomous
Department of Computer Science and Engineering

Course Title: Computer Networks **Academic Year: 2021-22**
Faculty : Mr.S.M.Hussain **Year/Sem : III/II(R19)**

LESSON PLAN

S No.	Date	No of Classes	Topic	Page No		REMARKS
UNIT -1: Introduction						
1	28/02/22	1	Introduction	3		T1
2	02/03/22 03/03/22	2	Network Topologies	-		W1,
3	04/03/22	1	WAN, LAN, MAN	17		W2, T1
4	05/03/22 07/03/22	2	Reference models- The OSI Reference Model	41		T1
5	08/03/22	1	the TCP/IP Reference Model,	45		T1
6	09/03/22 10/03/22	2	A Comparison of the OSI and TCP/IP Reference Models	49		T1
Total no. Of classes :		09				
UNIT – II: Physical Layer						
7	11/03/22	1	Physical Layer	90		T1
8	12/03/22 14/03/22	2	Guided Transmission Media	95		T1
9	15/03/22 16/03/22	2	Digital Modulation and Multiplexing	125		T1
10	17/03/22	1	Frequency Division Multiplexing	132		T1
11	19/03/22	1	Time Division Multiplexing, Code Division Multiplexing	135		T1
12	21/03/22 22/03/22	2	Wave Length Division Multiplexing.	-		W1
Total no. of classes		09				
UNIT – III: The Data Link Layer						
13	23/03/22	1	The Data Link Layer	193		T1
			Services Provided to the Network Layer	194		
14	24/03/22	1	Framing	197		T1
15	25/03/22	1	Error Control,	200		T1
			Flow Control	201		

			Error Detection and Correction(Introduction)	202		
16	26/03/22 28/03/22	2	Error-Correcting Codes	204		T1
			Error Detecting Codes	209		
17	29/03/22	1	Elementary Data Link Protocols	215		T1
			A Utopian Simplex Protocol	220		
18	30/03/22 31/03/22	2	A Simplex Stop and Wait Protocol for an Error free channel	221		T1
			A Simplex Stop and Wait Protocol for a Noisy Channel	222		
19	04/04/22 06/04/22	2	Sliding Window Protocols	226		T1
			A One Bit Sliding Window Protocol	229		
20	07/04/22 08/04/22	2	A Protocol Using Go-Back-N	232		T1
			A Protocol Using Selective Repeat	239		
Total no. of classes		12				
Revision Classes, Tests , Tutorials, Seminars (09/04/22 to 23/04/22)						
I-MID Examinations (25-04-2022 to 30-04-2022)						
UNIT – IV: The Medium Access Control Sublayer						
21	04/05/22 06/05/22	2	The Medium Access Control Sublayer, The Channel Allocation Problem-Static Channel Allocation	258		T1
22	07/05/22	1	Assumptions for Dynamic Channel Allocation	260		T1
23	09/05/22 10/05/22	2	Multiple Access Protocols	261		T1
			Aloha	262		
			Carrier Sense Multiple Access Protocols	266		
24	11/05/22 12/05/22	2	Collision-Free Protocols	269		T1
			Limited Contention Protocols	274		
25	13/05/22	1	Wireless LAN Protocols	277		T1
26	14/05/22	1	Ethernet	280		T1
			Classic Ethernet Physical Layer	281		
			Classic Ethernet MAC Sublayer Protocol	282		
27	16/05/22	1	Ethernet Performance	280		T1
			Fast Ethernet	290		

			Gigabit Ethernet	293	
			10-Gigabit Ethernet	296	
			Retrospective on Ethernet	298	
28	17/05/22 18/05/22 19/05/22	3	Wireless Lans	299	T1
Total no. of classes:		13			
UNIT – V: Design Issues-The Network Layer Design Issues					
29	20/05/22	1	Design Issues - The Network Layer Design Issues	355	T1
30	21/05/22	1	Store and Forward Packet Switching	356	T1
			Implementation of Connectionless Service	358	
31	23/05/22	1	Implementation of Connection Oriented Service	359	T1
32	24/05/22	1	Comparison of Virtual Circuit and Datagram Networks	361	T1
33	25/05/22	1	Routing Algorithms	362	T1
			The Optimality principle	364	
34	26/05/22 27/05/22	2	Shortest path Algorithm	366	T1
			Congestion Control Algorithms	392	
35	28/05/22	1	Approaches to Congestion Control	394	T1
			Traffic Aware Routing	395	
36	30/05/22	1	Admission Control	397	T1
			Traffic Throttling	398	
			Load Shedding	401	
Total no. of classes		09			
UNIT – VI: Transport Layer					
37	31/05/22	1	Transport Layer	495	T1
38	01/06/22	1	The Internet Transport Protocols: TCP	552	T1
39	02/06/22	1	UDP	541	T1

40	03/06/22	1	Application Layer	611	T1
41	04/06/22 06/06/22	2	The Domain Name System: The DNS Name Space	612	T1
42	07/06/22 08/06/22	2	Resource Records, Name Servers	616	T1
43	09/06/22	1	Electronic Mail:	623	T1
			Architecture and Services	624	
44	10/06/22	1	The User Agent	626	T1
			Message Formats	630	
45	11/06/22 13/06/22	2	Message Transfer	637	T1
			Final Delivery	643	
Total no. of classes		12			
Revision Classes, Tests , Tutorials, Seminars (14/06/22 to 25/06/22)					
II-MID Examinations (27-06-22 to 02-07-22)					
Preparations & Practical's (04-07-22 to 09-07-22)					
End Examinations (11.07.2022 to 23.07.2022)					

TEXT BOOKS:

1. Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010

2. Computer Networks: A Top Down Approach, Behrouz A. Forouzan, FirouzMosharraf, McGraw Hill Education

REFERENCE BOOKS:

1. Larry L. Peterson and Bruce S. Davie, "Computer Networks - A Systems Approach" (5th ed), Morgan Kaufmann/ Elsevier, 2011

Web Links:

1. https://nptel.ac.in/courses/106105081/
2. https://nptel.ac.in/courses/106/105/106105080/

Signature of the Faculty

Signature of the HOD

Head of the Department
Computer Science Engineering
Vishnu Institute of Technology
Vishnupur, BHIMAVARAM-534 202

VISHNU INSTITUTE OF TECHNOLOGY

VISHNUPUR: BHIMAVARAM

LESSON PLAN

DESIGN & DRAWING OF REINFORCED CONCRETE STRUCTURES

Name of the Faculty : B.MARY DEVIKA **Academic Year : 2021-2022**
Designation : Assistant Professor **Branch : Civil**
Department : Civil **Year & Sem : III Year, I sem**
Subject : Design and Drawing of Reinforced concrete Structures

Catalog Description:

The course aims to familiarize students with different types of design philosophies and required IS codes. Equip students with concepts of design of flexural members. Understand design concepts of shear bond and torsion. Familiarize students with different types of compression members and design. understand different type of footings and their design

REGULATION : R19

S.NO	DATE	Name of the Topic	No. of Classes	Text / Ref / Other Books with Page Numbers
UNIT-I:: INTRODUCTION AND LIMIT STATE				
1	01-10-2021	**1Introduction:** Working stress method Design codes and handbooks	2	
2	04-10-2021	Loadingstandards – Dead, live, wind and earthquake load	1	TB-1
3	06-10-2021	Elastic theory, designconstants, modular ratio, neutral axis depth and moment of resistance	1	TB26
4	07-10-2021	Balanced, under-reinforced and over-reinforced sections	2	TB-38
5	08-10-2021	Working stress method of design of singly and doubly reinforced beams.	2	TB-100
6	09-10-2021	**Limit State Design**: Concepts of limit state design	1	
7	11-10-2021	Basic statisticalprinciples – Characteristic loads	1	TB-78
8	13-10-2021	Partial load and Safety factors – representative stress-strain curves for cold worked deformedbars and mild steel bars	1	TB-88
9	20-10-2021	Characteristic strength. Assumptions in limit state design – stress Blockparameters	1	TB-87
10	21-10-2021	Limiting moment of ResistanceIntroduction Materials	2	TB-88
11	22-10-2021	Constituents of concrete, recommendation of IS 456 – 2000, grades of concrete, elastic theory	2	
12	23-10-2021	Design constants; singly reinforced beam.	1	TB-134
		Total No. of classes	**17**	
UNIT – II:DESIGN FOR FLEXURE				

13	25-10-2021	Limit state analysis and design of singly reinforcedsections	1	TB-178
14	27-10-2021	effective depth- Moment of Resistance- Doubly reinforced andflanged (T and L) beam sections	1	TB-181
15	28-10-2021	Minimum depth for a given capacity	2	TB-197
16	29-10-2021	Limiting Percentage of Steel	2	TB-203
17	30-10-2021	Minimum Tension Reinforcement-Maximum Flexural Steel- Design of Flanged Sections (T&L)	1	
18	01-11-2021	Effective width of flange–Behaviour- Analysis and Design.	1	TB-169
19	03-11-2021	Problem solving	1	
20	08-11-2021	Problem solving	1	TB-181
21	10-11-2021	Problem solving	1	
22	11-11-2021	Problem solving	2	
23	12-11-2021	Problem solving	2	
		Total No. of classes	**15**	
UNIT – III DESIGN FOR SHEAR, TORSION				
24	15-11-2021	Deflection, cracking and code provision	1	TB-203
25	17-11-2021	Limit state analysis and design ofsection for shear and torsion	1	TB-225
26	18-11-2021	Concept of bond	2	TB-232
27	19-11-2021	I.S. code provisions. Design examples in simply supported	2	TB-242
28	20-11-2021	Continuous beams	1	TB-259
29	22-11-2021	Detailing and Anchorage and Development length	1	TB-262
30	24-11-2021	Cracking and code provision	1	TB-288
31	25-11-2021	I.S. code provisions. Design examples in simply supported	2	TB-267
32	26-11-2021	Cracking and code provision	2	TB-278
33	27-11-2021	Cracking and code provision	1	TB-278
		Total No. Of Classes	**14**	
UNIT – IV SLABS				
34	08-12-2021	Classification of slabs -design of one - way slabs	1	
35	09-12-2021	Two - way slabs	2	TB-565
36	10-12-2021	Continuous slabs	2	TB-582
37	11-12-2021	Using IS Coefficients (conventional)	1	TB-586
38	13-12-2021	Design of waist-slab staircase	1	
39	15-12-2021	Design of one way slab problems	1	
40	16-12-2021	Design of two way slab problems	1	
		Total No. Of Classes	**09**	
UNIT –V DESIGN OF COMPRESSION MEMBERS				
41	16-12-2021	Effective length of a column,	1	TB-295,299
42	17-12-2021	Design of short and long columns	2	
43	18-12-2021	Under axial load	1	TB-185
44	20-12-2021	Uni-axial bending and bi-axial bending	1	TB-356
45	22-12-2021	Braced and un-braced columns –	1	TB-234
46	23-12-2021	Design of Compression members –I S Code provisions	2	TB-236
47	24-12-2021	Design of short and long columns	2	

48	27-12-2021	Design of short and long columns	1	
		Total No. Of Classes	**11**	
UNIT – VI FOOTINGS				
49	29-12-2021	Different types of footings	1	TB-422
50	30-12-2021	Design of isolated and combined footings	2	
51	31-12-2021	Rectangular and circular footings subjected to axial loads	2	
52	03-01-2022	Rectangular and circular footings subjected to axial loads	1	TB-189
53	05-01-2022	rectangular and circular footings subjected to axial loads	1	TB-315
54	06-01-2022	Uni-axial bending moments.	2	TB-267
55	07-01-2022	Bending moments.	2	
56	08-01-2022	Bi-axial bending moments.	1	
57	10-01-2022	Rectangular and circular footings subjected to axial loads	1	
58	12-01-2022	Rectangular and circular footings subjected to axial loads	1	
59	13-01-2022	Rectangular and circular footings subjected to axial loads	2	
60	19-01-2022	Rectangular and circular footings subjected to axial loads	1	
61	20-01-2022	Rectangular and circular footings subjected to axial loads	1	
		Total No. Of Classes	**18**	

Text Books:

Text Book : Design Concrete structures, Unnikrishnan Pillai.

Text Book 1 : Design Concrete structures, Devadas Menon.

Text Book 2 : Design of reinforced Concrete structures , N.Subramaniyan

IS CODES

1. IS-456-2000 (Permitted to examination hall)
2. IS-875
3. SP-16