



OSMANIA UNIVERSITY
HYDERABAD – 500 007

No. 3/0 /Stat./Acad/2021

Dated: 17-02-2021

To

All the Principals of Affiliated Colleges offering B.E. course under the jurisdiction of Osmania University.

Sub:- Almanac of B.E. I, II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021 – Approval – Communicated – Reg.

Ref:- Letter No.242/DFE/2021/B.E. Almanac, dated:10-03-2021 from the Dean, Faculty of Engineering, OU.

Sir/Madam,


With reference to the letter cited, I am desired to communicate the approval of the University for the following Almanac of B.E. , II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021:-

I Semester

1.	Induction Programme (2 weeks) in online	02-12-2020 to 11-12-2020
2.	Commencement of class work in offline	14-12-2020
3.	CIE (Internal Test - I)	08-02-2021 to 10-02-2021
4.	Display of CIE-1 Marks on or before	01-03-2021
5.	CIE (Internal Test) -II	25-03-2021 to 27-03-2021
6.	Last date of Instruction	03-04-2021
7.	Display of Total Sessional marks	12-04-2021
8.	Submission of Sessional Marks & Attendance to O.U. Exam Branch	13-04-2021
9.	Preparation and Practical Examinations	05-04-2021 to 17-04-2021
10.	Commencement of Theory Examinations	19-04-2021

II Semester

1.	Summer vacation for faculty & Commencement of Instruction in Online (Theory)	10-05-2021 to 19-06-2021
2.	Class work for practical's in Offline	21-06-2021 to 26-06-2021
3.	CIE (Internal test) -1	28-06-2021 to 30-06-2021
4.	Display of CIE-1 marks on or before	12-07-2021
5.	CIE (Internal Test) – II	19-08-2021 to 21-08-2021
6.	Last date of Instruction	28-08-2021
7.	Display of Total Sessional Marks	06-09-2021
8.	Submission of Sessional Marks & Attendance to OU Exam Branch	07-09-2021
9.	Preparation and Practical Examinations	30-08-2021 to 12-09-2021
10.	Commencement of Theory Examinations	13-09-2021
11.	Commencement of next academic year 2021-2022	04-10-2021


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Lords Institute of Engineering & Tech.,
22 Himayat Sagar, Hyderabad-500 091.

IV & VI Semester


1.	Commencement of Instruction in Online (Theory)	26-04-2021
2.	Summer vacation for Faculty & Instruction in Online	10-05-2021 to 19-06-2021
3.	CIE (Internal test) -I	21-06-2021 to 26-06-2021
4.	Class work for practicals in offline	28-06-2021 to 09-07-2021
5.	Display of CIE-I marks on or before	05-07-2021
6.	CIE (Internal Test) – II	20-07-2021 to 24-07-2021
7.	Last date of Instruction	31-07-2021
8.	Display of total Sessional Marks	07-08-2021
9.	Submission of Sessional Marks & Attendance to OU Ex.BR	09-08-2021
10.	Preparation and Practical Examination	09-08-2021 to 21-08-2021
11.	Commencement of Theory Examinations	23-08-2021
12.	Commencement of next academic year 2021-2022	20-09-2021

VIII Semester (CBCS)

1.	Commencement of Instruction	22-03-2021
2.	CIE (Internal test) -I	15-04-2021 to 17-04-2021
3.	Display of CIE-I marks on or before	22-04-2021
4.	CIE (Internal Test) – II	03-05-2021 to 05-05-2021
5.	Last date of Instruction	07-05-2021
6.	Display of Total Sessional Marks	15-05-2021
7.	Preparation and Practical Examinations	07-05-2021 to 23-05-2021
8.	Submission of Attendance to OU Exam Branch	15-05-2021
9.	Submission of CIE Marks to OU Ex.BR	17-05-2021
10.	Commencement of Theory Examinations	24-05-2021 to 29-05-2021
11.	Project Work Viva Voce	31-05-2021 and 01-06-2021

*Staff may be permitted to avail (5) weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,



DEPUTY REGISTRAR
(Academic)

Copy to:-

1. The Dean, Faculty of Engineering, OU.
2. The Head, Department of Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
3. The Director, Directorate of Academic Audit, OU.
4. The Director, University Foreign Relations Office, OU.
5. The Director, (Infrastructure), OU – with a request to place this on the University Web site.
6. The Chairman, Board of Studies in Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
7. The Controller of Examinations, OU.
8. The Addl. Controller of Examinations (Professional/Confidential), OU.
9. The Deputy Registrar, Cheque-II Section, Examination Branch, OU.
10. The Secretary to the Vice-Chancellor, OU.
11. The P.A. to Registrar, OU.


PRINCIPAL
 Lords Institute of Engineering & Tech.,
 Sy.No. 32, Himayat Sagar, Hyderabad-500 091.



OSMANIA UNIVERSITY
HYDERABAD - 500 007

No. 123 /Stat./Acad/2021
To

Dated: 17-02-2021

All the Principals of Affiliated Colleges offering B.E. course
under the jurisdiction of Osmania University.

Sub:- Revised almanac of B.E III, V Semesters (AICTE Model) and VII
semesters (CBCS Model) for the Affiliated Colleges for the
academic year 2020-2021 - Approval - Communicated - Reg.

Ref:- Letter No.105a/DFE/2020/B.E. Almanac, dated:28-01-2021 from the Dean,
Faculty of Engineering, OU.

Sir/Madam,

With reference to the letter cited, I am desired to communicate the approval of the
University for the following Revised almanac of B.E III, V Semesters (AICTE Model) and
VII semesters (CBCS Model) for the Affiliated Colleges for the academic year 2020-2021:-

III & V Semester (AICTE Model)

1.	Commencement of Instruction	01-09-2020
2.	Commencement of Instructions	04-01-2021
3.	CIE (Internal Test -I)	--
4.	Display of CIE-I Marks	--
5.	CIE (Class Test) -II	22-02-2021 to 25-02-2021
6.	Last date of Instruction	12-03-2021
7.	Display of CIE-II Marks on or before	22-03-2021
8.	Preparation Holidays and Practical Examinations	13-03-2021 to 27-03-2021
9.	Submission of attendance to OU Exam Branch	20-03-2021
10.	Submission of CIE Marks to OU Exam Branch	25-03-2021
11.	Commencement of Theory Examinations	29-03-2021

VII Semester (CBCS model)

1.	Commencement of Instruction	01-09-2020
2.	Commencement of Instructions	04-01-2021
3.	CIE (Internal Test) -I	--
4.	Display of CIE-I marks on or before	--
5.	CIE (Internal Test) - II	15-02-2021 to 18-02-2021
6.	Last date of Instruction	20-02-2021
7.	Display of CIE-II Marks on or before	22-02-2021
8.	Preparation Holidays and Practical Examinations	22-02-2021 to 06-03-2021
9.	Submission of attendance to OU Exam Branch	27-02-2021
10.	Submission of CIE Marks to OU Ex. Branch	27-02-2021
11.	Commencement of Theory Examinations	08-03-2021 to 27-03-2021

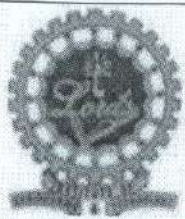
*Staff may be permitted to avail (5) weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,

[Signature]

DEPUTY REGISTRAR
(Academic)

[Handwritten Signature]
PRINCIPAL
Lords Institute of Engineering & Tech.,
No. 32, Himayat Sagar, Hyderabad-500 091.



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE/Affiliated to Osmania University/Estd.2002.

Accredited 'A' grade by NAAC - Accredited by NBA



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

IV SEM TIME TABLE :-2020-2021

W. e. f: 26-04-2021

YEAR & BRANCH: II-II SEMESTER(OU) EEE

ROOM NO:313

PERIOD	I	II	III		IV	V	VI
DAYS	9:30AM - 10:30 AM	10:30AM - 11:30AM	11:30AM - 12:30PM	12:30PM - 1:30PM	1:30AM - 2:30PM	2:30PM - 2:30PM	3:30PM - 4:30PM
MON	ETCE	F&A	PE	L U N C H	EM-I LAB		LIBRARY
TUE	EM-I	ETCE	M-III		DELD LAB		MENTORING
WED	F&A	PE	EME		M-III	ETCE	DELD
THUR	M-III	EME	EM-I		DELD LAB		DIGITAL LIBRARY
FRI	PE	DELD	F&A		NAMAZ	EM-I LAB	
SAT	EME	DELD	EM-I		M-III	PE	SPORTS

SUBJECT CODE	SUBJECT	ACRONYM	NAME OF THE FACULTY
HS201EG	Effective Technical Communication in English	ETCE	Dr Archana
HS202CM	Finance and Accounting	F&A	Mrs. Vanitha
BS207MT	Mathematics – III (Probability & Statistics)	M-III	Ms Masrath Jabeen Fatima
ES212ME	Elements of Mechanical Engineering	EME	Mr Ajay Kumar
PC231EE	Electrical Machines – I	EM-I	Dr. Ch. Santhan Kumar
PC232EE	Digital Electronics and Logic Design	DELD	Mr. G. Mallesh kumar
PC233EE	Power Electronics	PE	Mr. T. Santhosh Kumar
PC261EE	Electrical Machines Lab – I	EM-I LAB	Mr. G. Karunakar Reddy/ Mr. S Mallikarjuna
PC262EE	Digital Electronics & Logic Design Lab	DELD LAB	Mrs Sapna

[Signature]

[Signature] 25/4/21

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[Signature]

TT Incharge

HoD

Dean Academics

Principal

PRINCIPAL
Lords Institute of Engineering & Tech
Cy.No. 32, Himayath Sagar, Hyderabad-500 082

B.E -IV SEMESTER – 1CONTINUOUS INTERNAL EVALUATION, June 2021**Name of the Subject: Power Electronics****(Branch- EEE)**

Time: 1:30hour

DATE: 01-07-2021 FN

Max.Marks:20

SET-2

Knowledge Levels (KL) K1 –Remembering K2 Understanding K3 –Applying
 K4-Analyzing K5 –Evaluating K6 –Creating

❖ Part A as 06 compulsory question for (6 marks)

❖ Part B with 2 questions to be answered out of 3 questions each question for 7 marks

PART-A COMPULSORY QUESTIONS (6x1mark=6marks)

S.no	Question	Knowledge Levels	Co mapping
1	List out the advantages of GTO?	K1	C1
2	Define Latching Current?	K1	C1
3	Draw the wave forms of 1-Phase Full Wave Converter?	K2	C2
4	Define total harmonic distortion?	K2	C1
5	Draw the Symbol of SCR?	K3	C2
6	What is Duty ratio?	K1	C2

PART-B CHOICE BASED QUESTIONS (2x7mark=14marks)

1.	(i)Describe the any two methods of turn-on mechanism of SCR? (ii) Explain the turn off characteristics of SCR?	K1&K3	C1
2	Discuss the Operation of Step Down and Step up Chopper also derive the Expression for its output voltage?	K1&K2	C3
3.	Draw and Explain the operation of single phase semi converter and derive its expressions for its average and RMS output voltages?	K3&K4	C2

C-45

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LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY (C.C-1609)

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B.E IV SEMESTER - 1 CONTINUOUS INTERNAL EVALUATION, June 2021

BRANCH: **EEE** Name of the Subject: POWER ELECTRONICS

S N O	H.T.NO.	Name of the student	2 CIE (Max.Marks-30)										Assignments /Quizzes (10 Marks)	TOTAL
			Internal Test (20 Marks)											
			PART-A					PART-B						
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9			
1	160919734001	ABDUL MAJEED	1	1	1	1	1	1	6	7		9	28.	
2	160919734002	BISWAL ESWAR RAO	1	1	1	1	1	1	6	6		9	27.	
3	160919734003	FAHAD MOHIUDDIN	1	1	1	1	1	1	7	5		9	27.	
4	160919734004	MD EHTESHAM	1	1/2	1	1	1	1/2	6		6	10	27.	
5	160919734005	MD. SHAHRUKH	1	1	1	1	1	1	7	7		9	29.	
6	160919734007	MIRZA TAHA ALI KHAN	1	1	1	1	1	1		5	5	9	25.	
7	160919734008	MOHAMMED ABDUL IBRAHIM	1	1	1/2	1	1/2	1		6	7	9	27.	
8	160919734009	MOHAMMED EHTHERAM UDDIN	1	1	1	1	1	1	7	7		6	26.	
9	160919734010	MOHAMMED KAMRAN	1	1	1/2	1	1	1/2	7	6.		9	27.	
10	160919734011	MOHAMMED NIZAR JAVEED	1	1/2	1	1/2	1	1/2	7	6.		10	28.	
11	160919734014	SHAIK IBRAHEEM	1	1/2	1	1	1	1/2	7	7		8	27.	
12	160919734015	SHAIK ISMAIL	1	1	1	1	1	1		5	5	9	25.	
13	160919734016	SHAIK RAHEMUDDIN	1	1	1	1	1	1		7	6	9	29.	
14	160919734017	SYED ABDUL MOID	1	1	1	1	1	1		6	6.	10	28.	
15	160919734018	SYED ARBAAZ ALI	1	1	1	1	1	1	7	6		10	29.	
16	160919735019	MOHAMMAD SHOAB SHARIFF	1	1	1	1	1	1	7	7		10	30.	
17	160919734301	GEDALA TEJASWAR RAO	1	1	1	1	1	1	7	6		6	25.	
18	160919734302	MD MOULALI	1	1	1	1/2	1	1/2		7	6	5	23.	
19	160919734303	MD ARSHAD AYUB	1	1	1/2	1	1	1/2	7	6		9	27.	
20	160919734304	MOHAMMED AJMAL AHMED	1	1	1	1/2	1	1/2		7	6.	7	25.	
21	160919734305	MOHAMMED ABDUL USMAN	1	1	1	1/2	1	1/2	6	6		5	22.	
22	160919734306	MOHAMMED ABDUL YASEEN	1	1	1	1	1/2	1/2	7	7		8	27.	
23	160919734307	MOHAMMED AKHIL SHARIFF	1	1	1	1	1	1	7		6.	7	26.	
24	160919734308	MOHD HUNAIN AHMED	1	1	1/2	1	1/2	1		6	7	9	27.	
25	160919734309	SHAIK ALTAF SAMEER	1	1	1	1	1	1	7	5		10	28.	
26	160919734310	SHAIK TAYYAB AHMED	1	1	1	1/2	1	1/2	6	6		7	24.	
27	160919734311	SUFIAN AHMED	1	1	1	1/2	1	1/2	6	6		7	24.	

Name of the Staff → T. Santosh Kumar.

Signature of the Staff
↓
T. Santosh Kumar

Signature of the HOD
↓
[Signature]

Principal
PRINCIPAL
Lords Institute of Engineering & Tech.
Sy.No. 32, Himayath Sagar, Hyderabad-500 094

LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Information Sheet:

Programme : UG	Degree: B. E ELECTRICAL AND ELECTRONICS ENGINEERING	
Course Code : PC233EE	Course Title: POWER ELECTRONICS	
Year: IV SEMESTER A.Y. : 2020-2021	Regulation: AICTE CURRICULUM University: O.U.	
L T/P/D C : 3 0/0/0 3	Credits: 3	Contact Hrs: 3 Hours per week
Mid Marks : 30	External Marks: 70	Total Marks: 100
Teaching Hrs : 60	Exam Duration: 3 hrs.	

Course Outcomes:

CO-1	Understand the characteristics and performance of various power electronic devices.
CO-2	Analyse single and three phase controlled rectifier circuits.
CO-3	Understand choppers circuits and AC voltage controllers.
CO-4	Understand the performance of single phase inverter circuits.
CO-5	Analyse the operation of three phase voltage source inverters.

Syllabus / Lesson Plan:

S. No.	Syllabus	Periods	Teaching Methodology	Text books/ References books
UNIT-I Power switching devices				
1	Diode, Thyristor	1	ZOOM/PPT	T1,R1
2	MOSFET, IGBT: static and dynamic Characteristics; Firing.	1	ZOOM/PPT	T1,R1
3	circuit for thyristor	1	ZOOM/PPT	T1,R1
4	Voltage and current commutation of a thyristor	1	ZOOM/PPT	T1,R1
5	Gate drive circuits for MOSFET	1	ZOOM/PPT	T1,R1

6	Gate drive circuits for IGBT.	1	ZOOM/PPT	T1,R1
UNIT-II Thyristor rectifiers::				
7	Single-phase half-wave, rectifiers with R-load and highly inductive load;	1	ZOOM/PPT	T1,T2,R1
8	Single-phase full-wave and semi controlled rectifiers with R-load and highly inductive load	1	ZOOM/PPT	T1,T2,R1
9	Input current wave shape and power factor.	1	ZOOM/PPT	T1,T2,R1
10	Single-phase semi controlled rectifiers with R-load and highly inductive load.	1	ZOOM/PPT	T1,T2,R1
11	Three-phase full wave and thyristor rectifier with R load	1	ZOOM/PPT	T1,T2,R1
12	Three-phase full wave and semi controlled bridge thyristor rectifier with R load and highly inductive load;	1	ZOOM/PPT	T1,T2,R1
13	Three-phase semi controlled bridge thyristor rectifier with R load and highly inductive load;	1	ZOOM/PPT	T1,T2,R1
14	Single phase converter with wave forms.	1	ZOOM/PPT	T1,T2,R1
15	Three phase converter with wave forms.	1	ZOOM/PPT	T1,T2,R1
16	Numericals	1	ZOOM/PPT	T1,T2,R1
17	Numericals	1	ZOOM/PPT	T1,T2,R1
18	Numericals	1	ZOOM/PPT	T1,T2,R1
UNIT-III DC-DC Converters:				
19	Elementary chopper with an active switch and diode,	1	ZOOM/PPT	T1,T2,R1
20	concepts of duty ratio and average voltage	1	ZOOM/PPT	T1,T2,R1
21	power circuit and operation of buck, boost and buck-boost converters in continuous conduction mode,	1	ZOOM/PPT	T1,T2,R1
22	Duty ratio control of output voltage	1	ZOOM/PPT	T1,T2,R1
23	AC-AC Converter:	1	ZOOM/PPT	T1,T2,R1
24	Power circuit and operation.	1	ZOOM/PPT	T1,T2,R1
25	Single phase AC Voltage Controller with R & RL Load.	1	ZOOM/PPT	T1,T2,R1
26	Numericals	1	ZOOM/PPT	T1,T2,R1
27	Numericals	1	ZOOM/PPT	T1,T2,R1
28	Numericals	1	ZOOM/PPT	T1,T2,R1
29	Numericals	1	ZOOM/PPT	T1,T2,R1
UNIT-IV Single-phase inverter:				
30	Power circuit and operation of single-phase voltage source inverter in square wave mode.	1	ZOOM/PPT	T1,R2
31	Sinusoidal pulse width modulation.	1	ZOOM/PPT	T1,R2

32	Unipolar	1	ZOOM/PPT	T1,R2
33	Relation between modulation index and output voltage.	1	ZOOM/PPT	T1,R2
34	Calculation of performance parameters of inverter.	1	ZOOM/PPT	T1,R2
35	Calculation of Modulation Index.	1	ZOOM/PPT	T1,R2
36	Calculation of output voltage.	1	ZOOM/PPT	T1,R2
37	Bi-polar.	1	ZOOM/PPT	T1,R2
38	Single Phase inverter With Problems.	1	ZOOM/PPT	T1,R2
39	Numericals	1	ZOOM/PPT	T1,R2
40	Numericals	1	ZOOM/PPT	T1,R2
41	Numericals	1	ZOOM/PPT	T1,R2
42	Numericals	1	ZOOM/PPT	T1,R2
UNIT-V Three-phase inverter:				
43	Three-phase inverter	1	ZOOM/PPT	T1,R3
44	Power circuit and operation of three-phase voltage source inverter in 180° and 120° modes,	1	ZOOM/PPT	T1,R3
45	Bi-polar sinusoidal pulse width modulation	1	ZOOM/PPT	T1,R3
46	Relation between modulation index and output voltage..	1	ZOOM/PPT	T1,R3
47	Elementary operation of CSI,	1	ZOOM/PPT	T1,R3
48	Comparison of Voltage Source Inverter	1	ZOOM/PPT	T1,R3
49	Comparison of Current Source Inverter	1	ZOOM/PPT	T1,R3
50	Numericals	1	ZOOM/PPT	T1,R3
51	Numericals	1	ZOOM/PPT	T1,R3
52	Numericals	1	ZOOM/PPT	T1,R3
53	Numericals	1	ZOOM/PPT	T1,R3
54	Revision	1	ZOOM/PPT	---
55	Revision	1	ZOOM/PPT	----


PRINCIPAL
 Lords Institute of Engineering & Technology
 Sy.No. 32, Himayath Sagar, Hyderabad-508 001

Text books (T):

1. M. H. Rashid, "Power electronics: circuits, devices, and applications", Pearson Education India, 2009.
2. N. Mohan and T. M. Undeland, "Power Electronics: Converters, Applications and Design", John Wiley & Sons, 2007.

Reference books (R):

1. R. W. Erickson and D. Maksimovic, "Fundamentals of Power Electronics", Springer Science & Business Media, 2007.
2. L. Umanand, "Power Electronics: Essentials and Applications", Wiley India, 2009.
3. MD .Singh TATA MC GRAW-Hill Companies EEE , Second edition

T. Santhosh Kumar

Mr.T.SANTHOSH KUMAR

Assistant Professor, EEE Dept.

T. Santhosh Kumar

Signature of the Faculty

Dr. Ch. Santhan Kumar

Dr.CH.SANTHAN KUMAR,

AssocProf & HOD-EEE

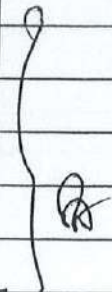
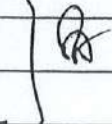
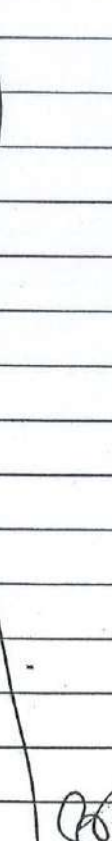
Dr. Ch. Santhan Kuma.


Head of the Department
Electrical and Electronics Engg.
Lords Institute of Engg. & Tech
Hyderabad-500091. T.S.

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PRINCIPAL
Lords Institute of Engineering & Tech.
Sy.No. 32, Himavath Sagar, Hyderabad-500 091

LECTURE SCHEDULE

Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
			<u>UNIT - I</u>	
1	28/4/21	1		
	28/4/21	1	Power Switching Devices:- Pre requisite	
	28/4/21	1	Introduction to Power Switching Devices.	
	30/4/21	1	DIODE, THYRISTOR, MOSFET.	
2.	30/4/21	1	CET CLASS.	
3.	02/05/21	1	Static & Dynamic char of PSD.	
	03/05/21		Switches.	
4.	03/05/21	1	Firing Ccts for Thyristor, Voltage & Current Commutation of a thyristor	
5.	03/05/21	1+1 (2)	Gate Drive Ccts for MOSFET and IGBT.	
			<u>UNIT - II</u>	
6.	4/5/21	1	Thyristor Rectifiers:-	
7.	5/5/21	1	Single phase half wave, Full wave & Semi	
8.	6/5/21	1	Controlled Rectifiers. with R-load and	
9.	7/5/21	1	highly inductive load. 3-phase half	
10.	2/6/21	1	Wave, Full wave & Semi Controlled	
11.	8/6/21	1	Bridge Thyristor Rectifier with R-	
12.	8/6/21	1	load & Highly Inductive load.	
13.	9/6/21	1	<u>UNIT 3: DC-DC Converter.</u>	
14.	10/6/21	1	Elementary chopper with an Active	
15.	15/6/21	1	switch & diode, Concepts of duty	
16.	16/6/21	1	ratio & avg voltage, Power ckt &	
17.	23/6/21	1	operation of Buck-boost Converter	
			in Continuous Conduction Mode, duty	
			ratio Contnry of avg voltage.	
			<u>UNIT - 4</u>	
			<u>SINGLE PHASE INVERTER</u>	
18.	24/6	1	Power Ckt & operation of Single phase	
			voltage source inverter	
19.	25/6	1	Sinusoidal pulse width modulation	


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LECTURE SCHEDULE

Signature of HOD / Principal	Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
				<u>Unit - 1</u> 3-phase Inverter	
	01	4/8	1	Power cut & operation of 3-phase inverter	 Dr. Ch. Sankar Kumar Head of the Department Electrical and Electronics Engg. Lords Institute of Engg. & Tech. Hyderabad-500091, T.S.
	02	9/8	1	180° conduction Mode in Bi-polar hybrid	
	03	11/8	1	Star & Delta modulation index &	
	04	13/8	1	output voltage.	
	05	18/8	1	Elementary operation of CSI, Comp. 2	
	06	19/8	1	output source of CSI.	
Commutation capacitor					
				<u>Unit 2</u>	

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Accredited by NBA

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-21
TIME-TABLE II YEAR I SEM

CLASS INCHARGE: Mr. Shaikh Mohd. Rasool

ROOM No.: 402

W.E.F: 01-09-2020

DAY/TIME	9.30-10.30AM	10.30-11.30AM	11.30-12.30PM	12.30-1.30PM	1.30-2.30PM	2.30-3.30PM	3.30-4.30PM
MON	NT	ED	FA	LUNCH BREAK	PTSP	ED	ETC
TUE	ED	DE	NT		<-- ED LAB (B-I) / EW LAB (B-II)-->		
WED	PTSP	NT	FA		ETC	DE	Library
THU	FA	PTSP	ED		<-- EW LAB (B-I) / ED LAB (B-II)-->		
FRI	PTSP	FA	DE		ETC	NT	Mentoring
SAT	DE	ETC	NT		FA	PTSP	

S No	COURSE CODE	SUBJECT	FACULTY NAME
1	BS201EG	Effective Technical Communication in English (ETC)	Mrs. Padmaja Rani
2	HS202CM	Finance and Accounting (FA)	Mr. Jeelani Basha
3	PC201EC	Probability Theory and Stochastic processes(PTSP)	Mrs. Amena Tamkeen
4	ES 215EC	Digital Electronics (DE)	Mrs. Sapna Gangrade
5	PC202EC	Electronic Devices (ED)	Mr. Shaikh Mohd. Rasool
6	PC203EC	Network Theory (NT)	Mr. Abdul Kareem
7	PC251EC	Electronic Devices Lab (ED Lab)	Mr. Shaikh Mohd. Rasool/ Mr. Altaf C/ Mr. Vijayakumar Sajjan
8	PC252EC	Electronic Workshop Lab(EW Lab)	Mr B Eshwar/ Mrs. Amena Tamkeen/ Mr. Altaf C
9	-	Library	Mrs. Amena Tamkeen
10	-	Mentoring	Respective Faculty

Shaikh Mohd. Rasool
TIMETABLE
INCHARGE

Shaikh Mohd. Rasool
HOD
HEAD
DEPARTMENT OF ECE
LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY
HIMAYATH SAGAR, HYDERABAD-500031.

Principal
PRINCIPAL
PRINCIPAL

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Sy.No. 32, Himayath Sagar, Hyderabad-500 091

YEAR / SEMESTER PLAN OF SYLLABUS COVERAGE

S. No.	Unit No.	TOPIC	No. of Perio
1	Unit 1.	→ Digital Hardware, Design Process	1
		→ Design of digital hardware	1
		→ Introduction to logic ckt's.	1
		→ Variables & functions	1
		→ logic gates and networks	1
		→ Boolean algebra	2
		→ Synthesis using gates	3
		→ Design Examples	2
		→ Optimised implementation of	3
		logic function's K-map &	
		Quine-Mc Clusky Tabular	
		Method	
Total Classes			(15)
2	Unit-II	Number Representation:-	
		→ Addition & Subtraction	1
		of signed and unsigned	
		numbers	
		→ Combinational ckt. building	
		blocks :-	
		→ Address	2
		→ Subtractors	1
		→ Multiplexers & Demultiplexers	2
		→ Parity Checkers & Generators	2
		→ Decoders & Encoders	3
		→ Code Converters	2
		→ BCD to 7 segment converter	1
		→ Arithmetic Comparator ckt's	1
Total Classes			(15)
3	Unit-III	Design of combinational	
		ckt. using PLD's.	
		→ General structure of PLA	2
		→ PLA.	3

Signature of Faculty

Signature of Principal

Signature of HOD



YEAR / SEMESTER PLAN OF SYLLABUS COVERAGE

S. No.	Unit No.	TOPIC	No. of Periods
		→ Structure of CPLDs & FPGAs.	4+1
		→ 2 I/p and 3 I/p LUTs.	4+1
		Total Classes	15
	Unit-4 →	Sequential cks →	
		→ Basic Latch, Gated S-R Latch	2.
		→ Gated D-latch	1
		→ Master Slave edge triggered flip flops.	2
		→ T-flip flop, JK flip flop	3.
		→ Excitation Table	2.
		→ Registers	2
		→ Counters.	3
		Total Classes	15
	Unit 5 →	Synchronous Sequential cks.	
		→ Basic Design steps.	2
		→ FSM representation using Moore & Mealy state models.	1
		→ State minimization.	2
		→ Design of FSM for sequence generation and detection.	5
		→ ASM charts.	2
		Total Classes	15
		Expected no. of classes	75

Signature of Faculty

Lords in
Sy No. 2

Signature of Principal
2018 Tech
500 081



Signature of HOD



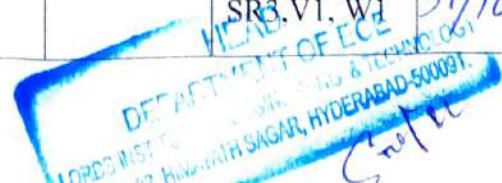
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Department of Electronics and Communications Engineering

Syllabus/Lesson Plan of Digital Electronics:

L.No.	Topic	Teaching Aids/ Methodology	References	DATE
Unit-I – DIGITAL CONCEPTS				
1	Introduction to Digital Electronics, its importance and future scope	CW/PPT	SR1, SR3,V1	1/09/20
2	Digital Hardware, Design process, Design of digital hardware	CW/PPT	SR1, SR3,V1	7/09/20
3	Introduction to logic circuits in terms of Variables	CW/PPT	SR1, SR3,V1	8/09/20
4	Introduction to logic circuits in terms of functions	CW/PPT	SR1, SR3,V1	19/09/20
5	Logic gates and networks	CW/PPT	SR1, SR3,V1	21/09/20
6	Concept of Boolean algebra	CW/PPT	SR1, SR3,V1	22/09/20
7	Problems on Boolean Algebra	CW/PPT	SR1, SR3,V1	28/09/20
8	Synthesis using gates –Concept	CW/PPT	SR1, SR3,V1	29/09/20
9	Synthesis using gates – Examples	CW/PPT	SR1, SR3,V1	3/10/20
10	Design examples	CW/PPT	SR1, SR3,V1	5/10/20
11	Optimized implementation of logic functions using K-Map – Concept	CW/PPT	SR1, SR3,V1,W1	6/10/20
12	Rules and Simplification Techniques of K-Map.	CW/PPT	SR1, SR3,V1, W1	12/10/20
13	Problems on 2- variable K-map	CW/PPT	SR1, SR3,V1, W1	13/10/20
14	Problems on 3- variable K-map	CW/PPT	SR1, SR3,V1, W1	19/10/20
15	Problems on 4- variable K-map	CW/PPT	SR1, SR3,V1, W1	20/10/20
16	Quine-McCluskey Tabular – Concept	CW/PPT	SR1, SR3,V1, W1	31/10/20



17	Quine-McCluskey Tabular – Examples	CW/PPT	SR1, SR3,V1, W1	2/11/20
18	Revision / Doubt Class			
Unit-II- NUMBER REPRESENTATION; COMBINATIONAL CIRCUIT BUILDING BLOCK.				
19	Addition of signed and unsigned numbers	CW/PPT	SR1, SR3,SR4, W2	3/11/20
20	Subtraction of signed and unsigned numbers	CW/PPT	SR1, SR3,SR4, W2	9/11/20
211	Half adder	CW/PPT	SR1, SR3,SR4, W2	9/11/20
22	Full adder	CW/PPT	SR1, SR3,SR4, V1,W2	19/11/20
23	Multiplexers	CW/PPT	SR1, SR3,SR4, W2	4/01/21
24	Decoders	CW/PPT	SR1, SR3,SR4, W2	9/01/21
25	Encoders	CW/PPT	SR1, SR3,SR4, W2	11/01/21
26	Code converters –Concept	CW/PPT	SR1, SR3,SR4, W2	16/01/21
27	Code converters – Examples	CW/C&T	SR1, SR3,SR4,V1, W2	18/01/21
28	BCD to 7-segment converter	CW/C&T	SR1, SR3,SR4, W2	23/01/21
29	Arithmetic comparator circuits.	CW/C&T	SR1, SR3,SR4, W2	25/01/21
30	Revision/ Doubt Class			01/02/21

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Unit-III- DESIGN OF COMBINATIONAL CIRCUIT USING PLD'S				
31	Programmable Array Logic (PAL) - Basic Concept	CW/PPT	SR1,SR4,SR5, W3	1/02/21
32	Structure of a Programmable Array Logic (PAL) – Explanation	CW/PPT	SR1,SR4,SR5, W3	15/02/21
33	Programmable Logic Arrays (PLAs) - Basic Concept	CW/PPT	SR1,SR4,SR5, W3	15/02/21
34	Structure of Programmable Logic Arrays (PLAs) – Explanation	CW/PPT	SR1,SR4,SR5, W3	15/02/21
35	CPLDs – Basic Concept	CW/PPT	SR1,SR4,SR5, W3	15/02/21
36	Structure of CPLDs – Explanation	CW/PPT	SR1,SR4,SR5, W3	15/02/21
37	FPGAs - Basic Concept	CW/PPT	SR1,SR4,SR5, W3	15/02/21
38	Structure of FPGAs – Explanation	CW/PPT	SR1,SR4,SR5, W3	16/02/21
39	2- input lookup tables(LUTs)	CW/C&T	SR1,SR4,SR5, W3	16/02/21
40	3-input lookup tables(LUTs)	CW/C&T	SR1,SR4,SR5, W3	16/02/21
41	Verilog code – Basic Introduction and Concept	CW/C&T	SR1,SR4,SR5, W3	16/02/21
42	Verilog code for basic logic gates	CW/C&T	SR1,SR4,SR5, W3	16/02/21
43	Verilog code for adders	CW/PPT	SR1,SR4,SR5, W3	16/02/21
44	Verilog code for decoders	CW/PPT	SR1,SR4,SR5, W3	16/02/21
45	Revision/ Doubts Class			17/02/21
Unit-IV- SEQUENTIAL CIRCUITS				
	Basic Latch, SR Latch, gated D Latch	CW/PPT	SR1,SR3,V3, W5	17/02/21
	Flip –Flops – Introduction and its types, T Flip-flop	CW/PPT	SR1,SR3,V3, W5	18/02/21
46	Master-Slave edge triggered flip-flops	CW/PPT	SR1,SR3,V3, W5	18/02/21

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47	JK Flip-flop, Excitation tables	CW/PPT	SR1,SR3,V3, W5	19/02/21
48	Registers	CW/PPT	SR1,SR3,V3, W5	19/02/21
49	Counters – Concepts	CW/PPT	SR1,SR3,V3, W5	20/02/21
50	Counters – Various types	CW/PPT	SR1,SR3,V3, W5	20/02/21
51	Counters – Explanation	CW/PPT	SR1,SR3,V3, W5	22/02/21
52	Verilog code for flip-flops – T Flip Flop, SR Flip flop	CW/C&T	SR1,SR3,V3, W5	22/02/21
53	Verilog code for flip-flops –JK Flip Flop	CW/C&T	SR1,SR3,V3, W5	22/02/21
54	Revision / Doubt Class		SR1,SR3,V3, W5	23/02/21
Unit-V – SYNCHRONOUS SEQUENTIAL CIRCUITS				
55	Basic Design Steps	CW/C&T	SR1,SR3,V3, W5	24/02/21
56	Finite State machine(FSM) – Introduction and Concept	CW/C&T	SR1,SR3,V3, W5	24/02/21
57	Moore state models - Introduction and Concept	CW/C&T	SR1,SR3,V3, W5	24/02/21
58	Finite State machine(FSM) representation using Moore state models – Explanation	CW/C&T	SR1,SR3,V3, W5	25/02/21
59	Mealy state models - Introduction and Concept	CW/C&T	SR1,SR3,V3, W5	25/02/21
60	Finite State machine(FSM) representation using Mealy state models – Explanation	CW/C&T	SR1,SR3,V3, W5	25/02/21
61	State minimization – Concept	CW/C&T	SR1,SR3,V3, W5	26/02/21
62	State minimization – Examples	CW/C&T	SR1,SR3,V3, W5	27/02/21
63	Design of FSM for Sequence Generation	CW/C&T	SR1,SR3,V3, W5	27/02/21
64	Design of FSM for Sequence Detection	CW/C&T	SR1,SR3,V3, W5	21/03/21
65	Revision / Doubt Class			21/03/21


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B.E II Year – I SEMESTER – 1 CONTINUOUS INTERNAL EVALUATION, Oct, 2020

Name of the Subject: DIGITAL ELECTRONICS

Department of ECE

Time: 1:30hour

DATE: 8.12.2020

Max.Marks:20

Knowledge Levels (KL) K1 –Remembering K2 Understanding K3 –Applying
K4-Analyzing K5 –Evaluating K6 –Creating

❖ Part A as 06 compulsory question for (6 marks)

❖ Part B with 2 questions to be answered out of 3 questions each question for 7 marks

PART (A) COMPULSORY QUESTIONS

(6*1=6MARKS)

S.NO	QUESTION	Course Outcome	Taxonomy Level
1	Define Truth table.	CO1,CO2, CO5	T1,T2,T3
2	Explain Minterm and Maxterm with an example of each.	CO1,CO2, CO5	T1,T2,T3
3	State and Prove Demorgan's Theorem.	CO1,CO2, CO5	T1,T2,T3
4	State following Boolean Laws- (a) Associative Law (b) Commutative Law	CO1,CO2	T1,T2,T3
5	What do you mean by SOP and POS form.	CO1,CO2	T1,T2,T3
6	Explain Duality Property with an example.	CO1,CO2, CO5	T1,T2,T3

PART (B) CHOICE BASED QUESTIONS

(2*7 =14MARKS)

7	Explain various types of Logic Gates under the following headings – a) Symbol b) Truth Table c) Boolean Expression for output. d) Definition	CO1,CO2	T1,T2,T3
8	Realise Logic Circuit from the following Boolean Expressions- a) $Y = (A' + B + C'), (A' + B' + C'), (A + B + C)$	CO1,CO2, CO5	T1,T2,T3

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S. N. O.	H.T.NO.	Name of the student	1 CIE (Max.Marks: 30)										TOTAL
			Internal Test (20 Marks)									Assignments / Quizzes (10 Marks)	
			PART-A					PART-B					
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9					
1	160919735001	ABDUL RAHMAN	1	1	1	1	1	1	7	6		10	29
2	160919735002	AJAY KUMAR THAKUR	1	1	1	1	1	0.5		6	6	10	27.5
3	160919735003	ASADULLA KHAN LODI	1	1	1	0.5	1	1	6	7		6	24.5
4	160919735004	AYAAZ KHAN	1	1	1	1	1	1	6	6		10	28
5	160919735005	AZMATH KHAN	1	1	1	1	1	1		7	6	10	29
6	160919735006	BILALUDDIN SUFI MOHAMMED	1	1	1	1	1	1	7	6		10	29
7	160919735007	GOUSE ALI KHAN	1	1	1	1	0.5	1	6	5		10	26.5
8	160919735008	GUNJI PRADEEP	1	1	1	1	1	0.5	7	6		10	28.5
9	160919735009	KACHU MADHU KIRAN REDDY	1	1	1	1	1	0.5		7	6	10	28.5
10	160919735010	KALIKAYA SRIKANTH	1	1	1	1	1	1	7	6		10	29
11	160919735011	M MAHESH	1	1	1	0.5	1	1	7	6		10	28.5
12	160919735012	MD ABUBAKAR	1	1	1	1	1	1		6	6	10	28
13	160919735013	SYED IDRIS	1	1	1	1	1	1	6	6		10	28
14	160919735014	MD RUMAN	1	1	1	1	1	1	5	6		6	23
15	160919735015	MD SALAUDDIN	1	1	1	1	1	1	6	6		10	28
16	160919735016	MIRZA AJWAD BAIG	1	1	1	1	0.5	1	6	6		8	25.5
17	160919735017	MOHAMMAD TOHIDODDIN	1	1	1	1	1	0.5	6	6		6	23.5
18	160919735018	MOHAMMED ANAS	1	1	1	1	1	1	4	4		6	20
19	160919735019	MOHAMMED FAIZAAN ALI	1	1	1	1	1	1	4	4		6	20
20	160919735020	MOHAMMED GHAZALI	1	1	1	0.5	1	1		6	6	6	23.5
21	160919735021	MOHAMMED GHORI	1	1	1	1	1	0.5		7	6	6	24.5
22	160919735022	MOHAMMED HAMEED ULLAH	1	1	1	1	1	0.5	6	6		6	23.5
23	160919735023	MOHAMMED MUDDASSIR GHORI	1	1	1	1	1	1		2	2	10	20
24	160919735024	MOHAMMED MUSHARAF ALI	1	1	1	1	1	1		6	6	6	24
25	160919735025	MOHAMMED SAQLAIN	1	1	1	0.5	1	1	6	6		8	25.5
26	160919735026	MOHAMMED SARFARAZ HUSSAIN	1	1	1	1	1	1	4	4		6	20
27	160919735027	MOHAMMED SHAFAHATH ULLAH AFFAN	1	1	1	1	1	0.5	7	6		6	24.5
28	160919735028	MOHAMMED SHAFEEQ AHMED	1	1	1	1	1	1	6	5		10	27
29	160919735029	MOHD ABDUL RAHEEM	1	1	1	1	0.5	1		7	6	6	24.5

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Sl. No.	HT.NO.	Name of the student	PART-A					PART-B			Theory Marks	TOTAL	
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8			Q9
30	160919735030	MOHD ZAIN ABDUL WASAY	1	1	1	1	1	0.5	5	5		6	21.5
31	160919735031	MOHD ZUBAIR KHAN	1	1	1	1	1	1	6	6		8	26
32	160919735032	MUPPIRALA SHASHANK DHEERAJ KARTIKEYAN	1	1	1	1	0.5	1		7	6	8	26.5
33	160919735033	NABEEL MOHAMMED AKBAR	1	1	1	1	1	0.5	7	6		10	28.5
34	160919735034	NASHRA KARIM	1	1	1	1	1	1	5	6		10	27
35	160919735035	NOUREEN FATIMA	1	1	1	1	1	1		6	6	10	28
36	160919735036	OMER FAROOQ	1	1	1	1	1	1	7	6.5		10	28.5
37	160919735037	OSMAN ALI KHAN UZAIR	1	1	1	1	1	1	7	7		10	30
38	160919735038	PAGIDIRAI PRAVEEN KUMAR	1	1	1	1	1	1	4	4		6	20
39	160919735039	PANDI DINESH	1	1	1	1	0.5	1	6	7		10	28.5
40	160919735040	SADIA ANJUM	1	1	1	1	1	1	4	5		10	25
41	160919735041	SADIQ HUSSAIN	1	1	1	1	1	1	4	4		6	20
42	160919735042	SHAIK AJMAL AHMED	1	1	1	1	1	0.5	5		2	10	29.5
43	160919735043	SHAIK MANSUR AHMED ALLI	1	1	1	1	1	1		6	6	6	24
44	160919735044	SHAIK MUSKAAN	1	1	1	1	1	1	7	7		10	30
45	160919735045	SHAIK ZIA UR RAHMAN	1	1	1	1	1	1	4		4	10	24
46	160919735046	SHIFA FATHIMA	1	1	1	1	1	1	7	6		10	29
47	160919735047	SHOAIB ZUMAIR	1	1	1	1	1	0.5	6	6		8	27.5
48	160919735048	SIROOR ANIL KUMAR	1	1	1	1	1	1		6	6	6	24
49	160919735049	SYED ANASUDDIN KHADRI	1	1	1	1	1	1		7	7	6	26
50	160919735050	SYED DANISH	1	1	1	1	1	1	4	4		6	20
51	160919735051	SYED FAIZUDDIN	1	1	1	1	1	1		4	4	6	20
52	160919735052	SYED FURQAN UDDIN	1	1	1	1	1	1		4	4	6	20
53	160919735053	SYED MEHMOOD FARMAAN	1	1	1	1	1	1	4	4		10	24
54	160919735054	SYED TAWAD HUSSAIN	1	1	1	1	1	1		4	4	6	20
55	160919735055	SYED UMAIR ALI	1	1	1	1	1	1	4		4	6	20
56	160919735056	VARAKALA SAI KUMAR	1	1	1	1	1	1	6	5		6	23
57	160919735057	VENGALA NITHEESH	1	1	1	1	1	1	5	6		6	22
58	160919735058	VUDIMUDI LAKSHMI SATYANJALIDEVI	1	1	1	1	1	1		6	6	10	26
59	160919735059	MOHAMMED OWAISODDIN	1	1	1	1	1	1	4		4	6	20
60	160919735060	SYED JUVERIA SIDDIQ	1	1	1	1	1	0.5	7	6		10	28.5

Name of the Staff

SAPNA
GANGRADE

Signature of the Staff

Signature of the HOD

Lateral Entry Students(A.Y.2020-21)

BRANCH: ECE Name of the Subject: DIGITAL ELECTRONICS

S. N O.	H.T.NO.	Name of the student	1 CIE(Max.Marks-30)										TOTAL
			Internal Test (20 Marks)									Assignments /Quizzes (10 Marks)	
			PART-A					PART-B					
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9		
1	160919735301	MD OMER FAROOQ	1	1	1	1	1	1	6	7		6	25
2	160919735302	MOHAMMAD RIZWAN	1	1	1	1	1	1	6	5		6	23
3	✓160919735303	MOHAMMED OWAIS QUADRI	1	1	1	1	1	1	4	4		6	20
4	160919735304	MOHAMMED SALMAN SIDDIQUI	1	1	1	1	1	1	6	6		6	24
5	160919735305	MOHAMMED SHABAZODDIN	1	1	1	1	1	1	7	6		6	25
6	160919735306	MOHAMMED TAJAMMUL AKRAM	1	1	1	1	1	1	6	6		6	24
7	160919735307	MOHMMAD KHAJA PASHA	1	1	1	1	1	1	6	6		6	24
8	160919735308	SHAIK AFROZ	1	1	1	1	1		6	6		6	23
9	160919735309	SHAIK SAIF AHMED	1	1	1	1	1	1	6	6		6	24
10	160919735310	SYED AHMED AIYAZ UDDIN	1	0.5	1	1	1	0.5	7	6		6	24
11	160919735311	SYED SALMAN	1	1	1	1	1	1	5	7		6	24
Name of the Staff		SAPNA GANGRADE	Signature of the Staff							Signature of the HOD			

PRINCIPAL
Lords Institute of Engineering & Tech.
Sy.No. 32, Himayath Sagar, Hyderabad-500 091



OSMANIA UNIVERSITY
HYDERABAD – 500 007

No. 3/0 /Stat./Acad/2021

Dated: 17-02-2021

To

All the Principals of Affiliated Colleges offering B.E. course under the jurisdiction of Osmania University.

Sub:- Almanac of B.E. I, II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021 – Approval – Communicated – Reg.

Ref:- Letter No.242/DFE/2021/B.E. Almanac, dated:10-03-2021 from the Dean, Faculty of Engineering, OU.

Sir/Madam,


With reference to the letter cited, I am desired to communicate the approval of the University for the following Almanac of B.E. , II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021:-

I Semester

1.	Induction Programme (2 weeks) in online	02-12-2020 to 11-12-2020
2.	Commencement of class work in offline	14-12-2020
3.	CIE (Internal Test - I)	08-02-2021 to 10-02-2021
4.	Display of CIE-1 Marks on or before	01-03-2021
5.	CIE (Internal Test) -II	25-03-2021 to 27-03-2021
6.	Last date of Instruction	03-04-2021
7.	Display of Total Sessional marks	12-04-2021
8.	Submission of Sessional Marks & Attendance to O.U. Exam Branch	13-04-2021
9.	Preparation and Practical Examinations	05-04-2021 to 17-04-2021
10.	Commencement of Theory Examinations	19-04-2021

II Semester

1.	Summer vacation for faculty & Commencement of Instruction in Online (Theory)	10-05-2021 to 19-06-2021
2.	Class work for practical's in Offline	21-06-2021 to 26-06-2021
3.	CIE (Internal test) -I	28-06-2021 to 30-06-2021
4.	Display of CIE-1 marks on or before	12-07-2021
5.	CIE (Internal Test) – II	19-08-2021 to 21-08-2021
6.	Last date of Instruction	28-08-2021
7.	Display of Total Sessional Marks	06-09-2021
8.	Submission of Sessional Marks & Attendance to OU Exam Branch	07-09-2021
9.	Preparation and Practical Examinations	30-08-2021 to 12-09-2021
10.	Commencement of Theory Examinations	13-09-2021
11.	Commencement of next academic year 2021-2022	04-10-2021


PRINCIPAL
Lords Institute of Engineering & Tech.,
22 Himayat Sagar, Hyderabad-500 091.

IV & VI Semester


1.	Commencement of Instruction in Online (Theory)	26-04-2021
2.	Summer vacation for Faculty & Instruction in Online	10-05-2021 to 19-06-2021
3.	CIE (Internal test) -I	21-06-2021 to 26-06-2021
4.	Class work for practicals in offline	28-06-2021 to 09-07-2021
5.	Display of CIE-I marks on or before	05-07-2021
6.	CIE (Internal Test) – II	20-07-2021 to 24-07-2021
7.	Last date of Instruction	31-07-2021
8.	Display of total Sessional Marks	07-08-2021
9.	Submission of Sessional Marks & Attendance to OU Ex.BR	09-08-2021
10.	Preparation and Practical Examination	09-08-2021 to 21-08-2021
11.	Commencement of Theory Examinations	23-08-2021
12.	Commencement of next academic year 2021-2022	20-09-2021

VIII Semester (CBCS)

1.	Commencement of Instruction	22-03-2021
2.	CIE (Internal test) -I	15-04-2021 to 17-04-2021
3.	Display of CIE-I marks on or before	22-04-2021
4.	CIE (Internal Test) – II	03-05-2021 to 05-05-2021
5.	Last date of Instruction	07-05-2021
6.	Display of Total Sessional Marks	15-05-2021
7.	Preparation and Practical Examinations	07-05-2021 to 23-05-2021
8.	Submission of Attendance to OU Exam Branch	15-05-2021
9.	Submission of CIE Marks to OU Ex.BR	17-05-2021
10.	Commencement of Theory Examinations	24-05-2021 to 29-05-2021
11.	Project Work Viva Voce	31-05-2021 and 01-06-2021

*Staff may be permitted to avail (5) weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,



DEPUTY REGISTRAR
(Academic)

Copy to:-

1. The Dean, Faculty of Engineering, OU.
2. The Head, Department of Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
3. The Director, Directorate of Academic Audit, OU.
4. The Director, University Foreign Relations Office, OU.
5. The Director, (Infrastructure), OU – with a request to place this on the University Web site.
6. The Chairman, Board of Studies in Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
7. The Controller of Examinations, OU.
8. The Addl. Controller of Examinations (Professional/Confidential), OU.
9. The Deputy Registrar, Cheque-II Section, Examination Branch, OU.
10. The Secretary to the Vice-Chancellor, OU.
11. The P.A. to Registrar, OU.


PRINCIPAL
 Lords Institute of Engineering & Tech.,
 Sy.No. 32, Himayat Sagar, Hyderabad-500 091.



OSMANIA UNIVERSITY
HYDERABAD - 500 007

No. 123 /Stat./Acad/2021
To

Dated: 17-02-2021

All the Principals of Affiliated Colleges offering B.E. course
under the jurisdiction of Osmania University.

Sub:- Revised almanac of B.E III, V Semesters (AICTE Model) and VII
semesters (CBCS Model) for the Affiliated Colleges for the
academic year 2020-2021 - Approval - Communicated - Reg.

Ref:- Letter No.105a/DFE/2020/B.E. Almanac, dated:28-01-2021 from the Dean,
Faculty of Engineering, OU.

Sir/Madam,

With reference to the letter cited, I am desired to communicate the approval of the
University for the following Revised almanac of B.E III, V Semesters (AICTE Model) and
VII semesters (CBCS Model) for the Affiliated Colleges for the academic year 2020-2021:-

III & V Semester (AICTE Model)

1.	Commencement of Instruction	01-09-2020
2.	Commencement of Instructions	04-01-2021
3.	CIE (Internal Test -I)	--
4.	Display of CIE-I Marks	--
5.	CIE (Class Test) -II	22-02-2021 to 25-02-2021
6.	Last date of Instruction	12-03-2021
7.	Display of CIE-II Marks on or before	22-03-2021
8.	Preparation Holidays and Practical Examinations	13-03-2021 to 27-03-2021
9.	Submission of attendance to OU Exam Branch	20-03-2021
10.	Submission of CIE Marks to OU Exam Branch	25-03-2021
11.	Commencement of Theory Examinations	29-03-2021

VII Semester (CBCS model)

1.	Commencement of Instruction	01-09-2020
2.	Commencement of Instructions	04-01-2021
3.	CIE (Internal Test) -I	--
4.	Display of CIE-I marks on or before	--
5.	CIE (Internal Test) - II	15-02-2021 to 18-02-2021
6.	Last date of Instruction	20-02-2021
7.	Display of CIE-II Marks on or before	22-02-2021
8.	Preparation Holidays and Practical Examinations	22-02-2021 to 06-03-2021
9.	Submission of attendance to OU Exam Branch	27-02-2021
10.	Submission of CIE Marks to OU Ex. Branch	27-02-2021
11.	Commencement of Theory Examinations	08-03-2021 to 27-03-2021

*Staff may be permitted to avail (5) weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,

[Signature]

DEPUTY REGISTRAR
(Academic)

[Handwritten Signature]
PRINCIPAL
Lords Institute of Engineering & Tech.,
No. 32, Himayat Sagar, Hyderabad-500 091.



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE/Affiliated to Osmania University /Estd.2002.



Accredited 'A' grade by NAAC



Accredited by NBA

Sy.No:32, Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091
Ph: 6309012442/43, Fax: 040-6625 3642, Website: www.lords.ac.in, Email: principal@lords.ac.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

III YEAR –II SEMESTER TIME TABLE: 2020-2021

W.e.f: 22-02-2021

B.TECH –CSE-B

III YEAR II- SEMESTER

Room No: 213

PERIOD DAY	I	II	III	L U N C H	IV	V	VI
	9:30AM - 10:30 AM	10:30AM - 11:30AM	11:30AM - 12:30PM		1:30PM - 2:30PM	1:30PM - 2:30PM	2:30PM - 3:30PM
MON	ML	DAA	STM		FIOT	CD	LIBRARY
TUE	CD LAB-BATCH-1 STM LAB- BATCH-2				ML	FIOT	STM
WED	ML	FIOT	ML		DAA	CD	SPORTS
THUR	FIOT	DAA	CD		STM LAB- BATCH-1 ML LAB-BATCH-2		
FRI	ML	FIOT	STM		PRAYER	CD	MENTORING
SAT	CD LAB-BATCH-2 ML LAB-BATCH-1				STM	DAA	STM

SUBJECT CODE	CREDITS	SUBJECT	ACRONYM	NAME OF THE FACULTY
CS601PC	4	Machine Learning	ML	Dr. KHALEEL AHAMED
CS602PC	4	Compiler Design	CD	Mr. ABDUL RASOOL MD
CS603PC	4	Design and Analysis of Algorithms	DAA	Mrs. DHANALAKSHMI
CS615PE	3	Software Testing Methodologies	STM	Mr. PRITHVI TEJA
EC600OE	3	Fundamental Of Internet Of Things	FIOT	Mr. ABDUL RAIS
CS604PC	1.5	Machine Learning Lab	ML LAB	Dr. KHALEEL AHAMED/ Ms. ASHLESHA KOLARKAR
CS605PC	1.5	Compiler Design Lab	CD LAB	Mr. SYEDAHMEDUDDIN/ Mr. ABDUL RASOOL MD
CS615PE	1	Software Testing Methodologies Lab	STM LAB	Mrs.B.VINUTHA/ Mr. PRITHVI TEJA

CLASS III(B) INCHARGE: Mr. PRITHVI TEJA

TT INCHARGE

HOD

DEAN

PRINCIPAL

Head of the Department
Computer Science and Engineering
Lords Institute of Engg & Tech
500 091, T.S.

Lords Institute of Engineering & Tech,
Sy.No.32, Himayathasagar, Golconda Post, Hyderabad-500 091.



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE/Affiliated to Osmania University /Estd.2002.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

III YEAR –II SEMESTER TIME TABLE: 2020-2021

W.e.f: 22-02-2021

B.TECH –CSE-A

III YEAR II- SEMESTER

Room No: 216

PERIOD	I	II	III	IV	V	VI	
	9:30AM	10:30AM	11:30AM	12:30PM	1:30PM	2:30PM	3:30PM
DAY	10:30 AM	11:30AM	12:30PM	1:30PM	2:30PM	3:30PM	4:30PM
MON	CD LAB-BATCH-1 STM LAB- BATCH-2			L U N C H	ML	STM	SPORTS
TUE	FIOT	CD	DAA		STM	ML	LIBRARY
WED	DAA	CD	DAA		STM LAB- BATCH-1 ML LAB-BATCH-2		
THUR	STM	ML	STM		FIOT	CD	MENTORING
FRI	CD LAB-BATCH-2 ML LAB-BATCH-1				PRAYER	FIOT	STM
SAT	FIOT	CD	DAA		ML	CD	DAA

SUBJECT CODE	CREDITS	SUBJECT	ACRONYM	NAME OF THE FACULTY
CS601PC	4	Machine Learning	ML	Ms. ASHLESHA KOLARKAR
CS602PC	4	Compiler Design	CD	Mr. ABDUL RASOOL MD
CS603PC	4	Design and Analysis of Algorithms	DAA	Mr. SYED AHMEDUDDIN
CS615PE	3	Software Testing Methodologies	STM	Mr. PRITHVI TEJA
EC600OE	3	Fundamental Of Internet Of Things	FIOT	Mr. ABDUL RAIS
CS604PC	1.5	Machine Learning Lab	ML LAB	Ms. ASHLESHA KOLARKAR/ Dr. KHALEEL AHAMED
CS605PC	1.5	Compiler Design Lab	CD LAB	Mr. ABDUL RASOOL MD/SRIKANTH
CS615PE	1	Software Testing Methodologies Lab	STM LAB	Mr. PRITHVI TEJA/ Mrs.B.VINUTHA

CLASS III(A) INCHARGE: Mr. SYED AHMEDUDDIN

TT INCHARGE

HOD

DEAN

PRINCIPAL

Head of the Department
Computer Science and Engineering
Lords Institute of Engg & Tech

Lords Institute of Engineering & Technology
Golconda Post, Himayathsagar, Hyderabad-500091
Ph: 6309012442/43, Fax: 040-66253642, Website: www.lords.ac.in, Email: principal@lords.ac.in



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY



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'Accredited by NAAC A' grade, Accredited by NBA

Sy.No:32,Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II-YEAR B.E – II SEMESTER -- 1 MID TERM EXAMINATIONS, JULY, 2021

DATABASE MANAGEMENT SYSTEMS

Time: 2 hours

Max.Marks:20

PART-A

Answer all the questions

S No	QUESTION	BTL	CO	PO/PSO	Marks
1	Briefly discuss about DBMS.	(T2)	(CO1)	PO1,PO3,PO5,PO6, PO9,PO10,PO12,PSO1	1
2	What is ER-diagram? Explain.	(T1)	(CO1)	PO1,PO3,PO5,PO9, PO10,PO12,PSO1	1
3	What is the need of data model in DBMS and give its classification	(T3)	(CO1)	PO1,PO3,PO5,PO9, PSO1	1
4	What is a primary key and foreign key? Explain.	(T2)	(CO1)	PO1,PO3,PO5,PO9, PSO1	1
5	What is Relational Algebra? Explain.	(T1)	(CO2)	PO1,PO3,PO5,PO6, PO10,PSO1	1
6	Discuss about Null Values.	(T3)	(CO2)	PO1,PO3,PO5,PO6, PSO1	1

PART-B

Answer any two questions.

S No	QUESTION	BTL	CO	PO/PSO	Marks
1	a. Describe about various users in database.	(T2)	(CO1)	PO1,PO3,PO5,PO6,PO9,PO10,PO12,PSO1	4
	b. Explain about design issues of E-R model.				3
2	Explain about various fundamental relational algebra operations with suitable examples.	(T2)	(CO2)	PO1,PO3,PO5,PO9,PO10,PO12,PSO1	7
3	a. What is data abstraction? Explain three levels of data abstraction.	(T1,2)	(CO1,2)	PO1,PO3,PO5,PO9,PSO1	4
	b. Explain about mapping cardinalities.				3

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY (C.C-1609)

Approved by AICTE/Affiliated to Osmania University/Estd.2002

B.E III SEMESTER - I CONTINUOUS INTERNAL EVALUATION, NOV, 2020

BRANCH CSE-C Name of the Subject: PROGRAMMING LANGUAGES

Sl. No.	H.U. NO.	Name of the student	AICTE (Max. Marks: 30)										TOTAL
			Internal Test (20 Marks)									Assignments / Quizzes (10 Marks)	
			PART-A					PART-B					
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12		
1	160919733121	MOHD IBRAHIM ALI KHAN	1	1	1	1	0.5	0.5	6		5	9	25
2	160919733122	MOHD HITEQUAR AHMED FAROOQUI	1	0.5	0.5	1	1	1	6		6	10	28
3	160919733123	MOHD ISMAIL	1	1	1	1	1	1	6		6	10	28
4	160919733124	MOHD MUBEEN UDDIN	1	1	1	1	1	1	6		6	10	28
5	160919733125	MOHD MUZZAMIL ADIL	1	0.5	1	1	1	0.5	6		6	10	27
6	160919733126	MOHD RAHEEM UDDIN ZIA	1	1	1	1	1	1	6	7		10	29
7	160919733127	MOHD RAYYAN ULLAH KHAN	1	1	1	1	1	1	6		5	10	27
8	160919733128	MOHD SAMEER UDDIN	1	1	1	1	1	1	7		7	10	30
9	160919733129	MOHD SHOAB	1	1	1	1	1	1	6		6	10	28
10	160919733130	MOHD SHOAB	1	0.5	1	1	1	0.5	5		6	9	25
11	160919733131	MOHD SUFYAN	1	0.5	1	1	1	1	6		6	9	27
12	160919733132	MOHD ZAHEER UDDIN AKHTAR SIDDIQUI	1	1	1	1	1	1	6		7	10	29
13	160919733133	MOHD ZEESHAN	1	0.5	1	1	1	1	6		6	10	28
14	160919733134	MOINUDDIN AHMED	1	1	1	1	1	1	7		7	10	30
15	160919733135	MUDABBIR MOHAMMED KHASIM	1	1	1	1	1	1	6		7	9	28
16	160919733136	MUFZAAL AHMED QUADRI	1	1	0.5	1	0.5	1	6		6	10	27
17	160919733137	MUJTABA MUDDASIR	1	0.5	1	1	1	0.5	6		6	10	27
18	160919733138	OBAIDUR RAHMAN	1	0.5	1	1	1	0.5	6		6	10	27
19	160919733139	OSAMA ABDUL MAJEED	1	1	1	1	1	1	6		6	9	26
20	160919733140	RAFEE AHMED KHAN	1	1	1	1	1	1	6		6	10	28
21	160919733141	S K MINHAIJ AHMED	1	0.5	1	1	1	0.5	6		6	10	27
22	160919733142	S.M. HADI ABEDI	1	0.5	0.5	1	1	0.5	6		6	10	27
23	160919733143	SALIQ RAFIQ SHAH	1	1	1	1	1	1	7		6	10	29
24	160919733144	SALMAN S HUSSAIN	1	1	1	1	1	0.5	7		6	10	29
25	160919733145	MOHD FAIZAN UDDIN	1	1	1	1	1	1	6		6	10	28
26	160919733146	SHAIK AMAN	1	0.5	1	1	1	0.5	6		6	9	26
27	160919733147	SHAIK MOHD ADNAN AHMED	1	0.5	1	1	1	0.5	7		6	9	27
28	160919733148	SHAIK RAFI UDDIN	1	1	1	1	1	1	6		6	10	28
29	160919733149	SHAIK SAMEER	1	0.5	1	1	1	1	6		6	10	28
30	160919733150	SHAIK SAQLAAN	1	1	1	1	1	1	6		6	10	28

S. N O	HT.NO.	Name of the student	PART A						PART B			Assignments /Quizzes (10 Marks)	TOTAL
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9		
31	160919733151	SOHAIL MOHAMMED MURTUZA	1	0.5	1	1	1	1	6		6	10	28
32	160919733152	SUHAIL	1	1	1	1	1	1	6		6	10	28
33	160919733153	SYED ABDUL ARBAAZ	1	1	1	1	1	1	3		3	9	21
34	160919733154	SYED ABDUL MANNAN	1	1	1	1	1	1	6		7	10	29
35	160919733155	SYED ABDUL NAWAZ	1	1	1	1	1	1	7		6	10	29
36	160919733156	SYED ABDUL RAHEEM	A B S E N T									9	09
37	160919733157	SYED AHMED ALI	1	0.5	1	1	1	0.5	7		7	10	29
38	160919733158	SYED AMAAN HUSSAIN MOOSAVI	1	0.5	1	1	1	0.5	6		6	10	27
39	160919733159	SYED AMJAD	1	0.5	1	1	1	1	6		6	10	28
40	160919733160	SYED ANASUDDIN	1	1	1	1	1	0.5	6		6	10	28
41	160919733161	SYED ASIM	1	0.5	1	1	1	0.5	7		6	10	28
42	160919733162	SYED JAMAL MUBASHIR HUSSAIN	1	1	1	1	1	1	5	6	①	10	27
43	160919733163	SYED KASHIF AHMED	1	1	0.5	1	0.5	1	6	6		9	26
44	160919733164	SYED MOHAMMED ALI	1	1	1	1	1	1	7		7	9	29
45	160919733165	SYED MOHAMMED HASSAN	1	0.5	1	1	1	1	6		6	10	28
46	160919733166	SYED MOHSIN ALI	1	1	1	1	1	1	6		6	10	28
47	160919733167	SYED MUZAMILUDDIN	1	0.5	1	1	1	0.5	6		6	9	27
48	160919733168	SYED NOUMAAN AHMED	1	0.5	1	1	1	0.5	7		6	10	28
49	160919733169	SYED OMAR	1	0.5	1	1	1	0.5	6		6	9	27
50	160919733170	SYED OMER AHMED	1	0.5	1	1	0.5	0.5	6		6	9	26
51	160919733171	SYED RAHEEL	1	1	1	1	1	1	6		3	9	24
52	160919733172	SYED SHAH ABDUL WASEA	1	1	1	1	1	1	6		6	10	28
53	160919733173	SYED SOHAIB	1	1	1	1	1	1	6		6	10	28
54	160919733174	SYED WAJAHAT ALI HASHMI	1	1	1	1	1	1	6		6	10	28
55	160919733175	SYED WALEED UDDIN	1	1	1	1	1	1	6		6	9	27
56	160919733176	SYED ABRAR AHMED	1	1	1	1	1	1	6		6	10	28
57	160919733177	TANZIL AHMAD	1	1	1	1	1	1	6		6	9	27
58	160919733178	WASIM AHMED	1	1	0.5	1	1	0.5	7	7		10	29
59	160919733179	ZAID SYED SAMI UDDIN	1	1	1	1	1	1	7		6	10	29
60	160919733180	ZAIN ULLAH BAIG	1	0.5	1	1	1	0.5	6		6	9	26
61	160919733181	ZUBAIR MANZOOR MIRZA	—	0.5	0.5	1	—	—	6		6	9	23
62	160919733182	ZUHAIR ABDUL HALEEM	1	1	1	1	1	1	7		6	9	28
Signature of the Staff		U. MOULALI	Signature of the Staff						Signature of the HOD				

**SYLLABUS/LESSON PLAN**
Subject: Programming Languages

L.No.	Topic	Teaching Aids/ Methodology	References
Unit-I: Preliminary Concepts			
1	Preliminary Concepts: Reasons for studying Concept of programming languages,	ZM/C&T/AL	SR1, SR2, W1
2	Programming domains	ZM/C&T/PPT	SR1, SR2, W2
3	Language Evaluation Criteria	ZM/C&T/PPT	SR1, SR2, SR3, W1
4	Influences on Language design	ZM/C&T/PPT	SR1, SR2, SR3, W1
5	Language categories	ZM/C&T/PPT	SR1, SR2, SR3, W1
6	Programming Paradigms	ZM/C&T	SR1, SR2, W1, W2
7	Imperative, Object Oriented Functional Programming	ZM/C&T	SR1, SR2, W1
8	Logic Programming.	ZM/C&T/NV	SR1, SR2, W1, V1
9	Programming Language Implementation Methods,	ZM/C&T/NV	SR1, SR2, SR3, W2, V1
10	Programming environments	ZM/C&T	SR1, SR2
11	Syntax and Semantics: General Problem of describing Syntax and Semantics	ZM/C&T	SR1, SR2
12	Formal methods of describing syntax - BNF, EBNF for common programming languages features,	ZM/C&T	SR1, SR2, W2
13	Parse trees, ambiguous grammars, Attribute grammars	ZM/C&T	SR1, SR2
Unit-II: Data types			
14	Data types: Introduction primitive, character	ZM/C&T/NV	SR1, SR2, SR3, W1, W2, V2
15	User defined, array, associative, record, union, pointer and reference types	ZM/C&T	SR1, SR2, W1, W2
16	Design and implementation uses related to these types	ZM/C&T/ NV	SR1, SR2, W1, W2, V3
17	type checking	ZM/C&T	SR1, SR2, W1
18	Strong typing, type compatibility, named constants, variable initialization	ZM/C&T	SR1, SR2, W1
19	Expressions and Statements: Arithmetic relational and Boolean expressions	ZM/C&T	SR1, SR2, W1, W2
20	Short circuit evaluation mixed mode assignment	ZM/C&T	SR1, SR2
21	Assignment Statements	ZM/C&T	SR1, SR2, W2
22	Control Structures – Statement Level, Compound	ZM/C&T	SR1, SR2



L.No.	Topic	Teaching Aids/ Methodology	References
	Statements, Selection, Iteration,		
23	Unconditional Statements, guarded commands.	ZM/C&T/PPT	SR1, SR2, W1, W2
Unit-III: Subprograms and Blocks			
24	Subprograms and Blocks: Fundamentals of sub-programs.	ZM/C&T/NV	SR1, SR2, W2, V3
25	Design Issues for Subprograms	ZM/C&T	SR1, SR2, W2
26	Local Referencing Environments	ZM/C&T	SR1, SR2, W2
27	Parameter Passing Methods,	ZM/C&T	SR1, SR2, W4
28	Parameters that Are Subprograms	ZM/C&T	SR1, SR2
29	Calling Subprograms Indirectly,	ZM/C&T	SR1, SR2, W2
30	Overloaded Subprograms	ZM/C&T	SR1, SR2
31	Generic Subprograms	ZM/C&T	SR1, SR2, W2
32	Design Issues for Functions	ZM/C&T	SR1, SR2, W2
33	User Defined Overloaded Operators	ZM/C&T	SR1, SR2, W1
34	Closures, Coroutines	ZM/C&T	SR1, SR2, W1, W2
Unit-IV: Abstract Data Types			
35	Abstract Data Types: The Concept of Abstraction	ZM/C&T/PPT	SR1, SR2, W3
36	Introductions to Data Abstraction	ZM/C&T/PPT	SR1, SR2, W3
37	Design Issues, Language Examples	ZM/C&T/PPT	SR1, SR2, W3
38	Solving problems on Pure Substances	ZM/C&T	SR1, SR2, W3
	Parameterized ADT, Naming	ZM/C&T	SR1, SR2, W3
39	Naming Encapsulation Constructs, Encapsulation	ZM/C&T	SR1, SR2, W3
40	Abstract Data Types: The Concept of Abstraction	ZM/C&T	SR1, SR2
41	Introductions to Data Abstraction	ZM/C&T	SR1, SR2
Unit-V: Functional Programming Languages			
42	Functional Programming Languages: Introduction	ZM/C&T	SR1, SR2, W4
43	Mathematical Functions	ZM/C&T/NV	SR1, SR2, SR3, W4, V4
44	Fundamentals of FPL, LISP, ML	ZM/C&T/NV	SR1, SR2, SR3, W4, V4
45	Application of Functional Programming Languages	ZM/C&T	SR1, SR2, SR3, W4



46	Comparison of functional and imperative Languages	ZM/C&T/Quiz	SR1, SR2, SR3, W4
47	Logic Programming Language: Introduction	ZM/C&T	SR1, SR2, SR3, W4
48	Overview of Logic Programming	ZM/C&T	SR1, SR2, SR3, W4
49	Basic Elements of Prolog	ZM/C&T	SR1, SR2, SR3, W5
50	Applications of Logic Programming	ZM/C&T	SR1, SR2, SR3, W4
51	Scripting language: Pragmatics, key concepts	ZM/C&T/AL	SR1, SR2, SR3, W5, V5
52	Case study: Python variables	ZM/C&T	SR1, SR2
53	Storage and control, bindings and scope	ZM/C&T	SR1, SR2
54	Procedural Abstraction and data abstraction	ZM/C&T	SR1, SR2
55	Separate compilation and module library	ZM/C&T	SR1, SR2, SR3, W5

Suggested Readings (SR):

SR	Book Title/Author/Publication
SR1	Concepts of Programming Languages Robert W. Sebesta 8/e, Pearson Education, 2008.
SR2	Programming Language Design Concepts, D. A. Watt, Wiley dreamtech, rp-2007
SR3	Programming Languages, 2nd Edition, A.B. Tucker, R.E. Noonan, TMH.
SR4	Guide to Programming with Python, Michael Dawson, Thomson, 2008

Web References (W):

W	Web References
W1	http://www.nptelvideos.in/2012/11/principles-of-programming-languages.html
W2	http://nptel.ac.in/courses/106102067/10
W3	http://nptel.ac.in/courses/106102067/37
W4	http://nptel.ac.in/courses/106102067/19
W5	http://nptel.ac.in/courses/106102067/36

Videos (V):

V	Videos
V1	https://www.youtube.com/watch?v=smQYQYiqMUK
V2	https://www.youtube.com/watch?v=ISLzkzastlc
V3	https://www.youtube.com/watch?v=bqmwfdG-N48
V4	https://www.digimat.in/nptel/courses/video/106102067/L01.html
V5	https://www.youtube.com/watch/AxxOaFJkQM?reload=9

Teaching Aids/Teaching Methodology:

Zoom meeting (ZM)/ Google Classroom (GC)/ Chalk & Talk (CT)/ Power Point Presentation (PPT)/ Demonstration (Demo./ Animated Lectures (AL)/ Guest lecture (GL) /Workshops (WS)/ Seminars (S)/ Pictorial sessions(PS)/ Quiz (Q)/NPTEL Videos (NV)/ Open book test (OBT)/ Review web literature (RWL)/ Flipped Classroom (FC)/ Project-based learning (PBL)/ Real-time case studies (RTCS)/ Journal Review (JR)/ Research projects (RP)

Prepared by

Mr. U. MOULALI


Head of the Department
Computer Science and Engineering
Lords Institute of Engg & Tech
Hyderabad - 500091, T.S.

LECTURE SCHEDULE

Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
1	9/9/20	1	Introduction to PL & Syllabus	
2	4/9/20	1	Language Concepts & Paradigms	
3	7/9/20	1	Language Evaluation criteria	
4	8/9/20	1	Programming Paradigms & loops	
5	9/9/20	1	programming language implementation	
6	11/9/20	1	programming paradigms	
7	14/9/20	1	Compilers, virtual machines, Intro	
8	15/9/20	1	Data Types, expressions	
9	18/9/20	1	Arrays in Different Prog Languages	
10	21/9/20	1	enums & Records	
11	22/9/20	1	" "	
12	23/9/20	1	pointers in Prog. Language	
13	25/9/20	1	Grammar Definitions	
14	28/9/20	1	Syntax & Grammar	
15	29/9/20	1	" "	
16	30/9/20	1	Context Free Grammar, BNF,	
17	5/10/20	1	" "	
18	6/10/20	1	Semantic operators	
19	9/10/20	1	Data types & operators	
20	9/10/20	1	Arrays & Records	
21	12/10/20	1	Type checking, type compatibility	
22	13/10/20	1	Named Constants	
23	16/10/20	1	variable initialization	
24	19/10/20	1	Expressions & statements	
25	20/10/20	1	Arithmetic & Boolean expressions	
26	21/10/20	1	short circuit evaluation	
27	2/11/20	1	Assignment statements & Control	
28	3/11/20	1	statement level compound stmt	
29	4/11/20	1	selection, unconditional stmts	
30	6/11/20	1	Guarded Commands	
31	4/1/21	1	subprograms: fundamentals	
32	5/1/21	1	Design issues for subprograms	
33	6/1/21	1	variable environment	
34	11/1/21	1	local Referencing environment	
35	12/1/21	1	" " "	

[Signature]

LECTURE SCHEDULE

Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
36	18/1/21	1	Formal parameters / Actual Param	
37	19/1/21	1	Parameter Passing methods	
38	1/2/21	1	Abstract data types, encapsulation	
39	2/2/21	1	ADT in ADA	
40	3/2/21	1	ADT in C++, Java, C#	
41	4/2/21	1	parameterised ADT, Concurrency	
42	6/2/21	1	Semaphores, Monitors, message	
43	8/2/21	1	Implementation in ADA	
44	11/2/21	1	Logic programming in ADA	
45	15/2/21	1	PROLOG Basic elements	
46	16/2/21	1	u. u	
47	19/2/21	1	Applications of Logic program	
48	22/2/21	1	functional programming	
49	23/2/21	1	USP.	
50	24/2/21	1	scheme	
51	24/2/21	1	scripting Language Concept	
52	1/3/21	1	u. u	

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OSMANIA UNIVERSITY
HYDERABAD - 500 007

No. 3/0 /Stat./Acad/2021

Dated: 17-02-2021

To
All the Principals of Affiliated Colleges offering B.E. course
under the jurisdiction of Osmania University.

Sub:- Almanac of B.E. I, II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021 - Approval - Communicated - Reg.

Ref:- Letter No.242/DFE/2021/B.E. Almanac, dated:10-03-2021 from the Dean, Faculty of Engineering, OU

Sir/Madam,

With reference to the letter cited, I am desired to communicate the approval of the University for the following Almanac of B.E. , II, VI, VI (AICTE Model) & VIII (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021:-

I Semester

1.	Induction Programme (2 weeks) in online	02-12-2020 to 11-12-2020
2.	Commencement of class work in offline	14-12-2020
3.	CIE (Internal Test - 1)	08-02-2021 to 10-02-2021
4.	Display of CIE-1 Marks on or before	01-03-2021
5.	CIE (Internal Test) -II	25-03-2021 to 27-03-2021
6.	Last date of Instruction	03-04-2021
7.	Display of Total Sessional marks	12-04-2021
8.	Submission of Sessional Marks & Attendance to O.U. Exam Branch	13-04-2021
9.	Preparation and Practical Examinations	05-04-2021 to 17-04-2021
10.	Commencement of Theory Examinations	19-04-2021

II Semester

1.	Summer vacation for faculty & Commencement of Instruction in Online (Theory)	10-05-2021 to 19-06-2021
2.	Class work for practical's in Offline	21-06-2021 to 26-06-2021
3.	CIE (Internal test) -I	28-06-2021 to 30-06-2021
4.	Display of CIE-1 marks on or before	12-07-2021
5.	CIE (Internal Test) - II	19-08-2021 to 21-08-2021
6.	Last date of Instruction	28-08-2021
7.	Display of Total Sessional Marks	06-09-2021
8.	Submission of Sessional Marks & Attendance to OU Exam Branch	07-09-2021
9.	Preparation and Practical Examinations	30-08-2021 to 12-09-2021
10.	Commencement of Theory Examinations	13-09-2021
11.	Commencement of next academic year 2021-2022	04-10-2021

Handwritten signature

IV & VI Semester

1.	Commencement of Instruction in Online (Theory)	26-04-2021
2.	Summer vacation for Faculty & Instruction in Online	10-05-2021 to 19-06-2021
3.	CIE (Internal test) - I	21-06-2021 to 26-06-2021
4.	Class work for practicals in offline	28-06-2021 to 09-07-2021
5.	Display of CIE-I marks on or before	05-07-2021
6.	CIE (Internal Test) - II	20-07-2021 to 24-07-2021
7.	Last date of Instruction	31-07-2021
8.	Display of total Sessional Marks	07-08-2021
9.	Submission of Sessional Marks & Attendance to OU Ex.BR	09-08-2021
10.	Preparation and Practical Examination	09-08-2021 to 21-08-2021
11.	Commencement of Theory Examinations	23-08-2021
12.	Commencement of next academic year 2021-2022	20-09-2021

VIII Semester (CBCS)

1.	Commencement of Instruction	22-03-2021
2.	CIE (Internal test) - I	15-04-2021 to 17-04-2021
3.	Display of CIE-I marks on or before	22-04-2021
4.	CIE (Internal Test) - II	03-05-2021 to 05-05-2021
5.	Last date of Instruction	07-05-2021
6.	Display of Total Sessional Marks	15-05-2021
7.	Preparation and Practical Examinations	07-05-2021 to 23-05-2021
8.	Submission of Attendance to OU Exam Branch	15-05-2021
9.	Submission of CIE Marks to OU Ex.BR	17-05-2021
10.	Commencement of Theory Examinations	24-05-2021 to 29-05-2021
11.	Project Work Viva Voce	31-05-2021 and 01-06-2021

*Staff may be permitted to avail (5) weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,



DEPUTY REGISTRAR
(Academic)

Copy to:-

1. The Dean, Faculty of Engineering, OU.
2. The Head, Department of Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
3. The Director, Directorate of Academic Audit, OU.
4. The Director, University Foreign Relations Office, OU.
5. The Director, (Infrastructure), OU - with a request to place this on the University Web site.
6. The Chairman, Board of Studies in Civil/Electrical/Mechanical/Bio-Medical/ECE/CSE, OU.
7. The Controller of Examinations, OU.
8. The Addl. Controller of Examinations (Professional/Confidential), OU.
9. The Deputy Registrar, Cheque-II Section, Examination Branch, OU.
10. The Secretary to the Vice-Chancellor, OU.
11. The P.A. to Registrar, OU.





LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE/Affiliated to OU/Estd.2002.
Accredited 'A' grade by NAAC - Accredited by NBA



DEPARTMENT OF INFORMATION TECHNOLOGY

BE IV-SEMESTER TIME TABLE: 2020-2021

W.E.F: 08-04-2021

Online Classes Time Table

YEAR & BRANCH: II-IT-A

PERIOD DAYS	I	II	III	L U N C H	IV
	10:00AM - 10:50AM	11:00AM - 11:50AM	12:00AM - 12:50PM		12:50 PM - 1:30 PM
MON	SS	BFE	COM	L U N C H	DC
TUE	OR	JP	DBS		--
WED	BFE	SS	DBS		OR
THUR	JP	DC	COM		SS
FRI	COM	DBS	JP		--
SAT	BFE	DC	OR		--

SUBJECT CODE	SUBJECT	ACRONYM	NAME OF THE FACULTY
HS204ME	Operation Research	OR	Dr.Sumeet Hangargi
BS206BZ	Biology for Engineers	BFE	Ms.D.Sharon Swaruparani
ES215EC	Signal and Systems	SS	Mr.Surender Reddy
PC231IT	JAVA Programming	JP	Ms.Sumayya Begum
PC232IT	Database Systems	DBS	Mrs.Kaneez Fatima
PC233IT	Computer Organization and Microprocessor	COM	Ms.Ataf.C
PC234IT	Data Communications	DC	Mrs.Khutaija Abid

TT INCHARGE

HOD

DEAN

PRINCIPAL

16-page of the Department
Department of Information Technology
Lords Institute of Engineering & Technology
Jawahar Nagar, Hyderabad-501

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE/Affiliated to Osmania University/Estd.2002.



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Sy.No:32, Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091

Ph: 6309012442/43, Fax: 040-6625 3642, Website: www.lords.ac.in, Email: principal@lords.ac.in

Department of Information Technology

ACADEMIC YEAR 2020-21 I Sem.

W.E.F: 01-09-2020

II YEAR-A I SEM TIME-TABLE

Room No: 426

Day/Hour	9:30-10:20	10:20-11:10	11:10-12:00	12:00-12:50	12:50-1:20	1:20- 2:15	2:15-3:00	3:00 - 3:45	3:45 to 4:30
Monday	ETCE	BE/DS-II Year IT A Section			L U N C H	FAA	M-III	BE	LIBRARY
Tuesday	DE	DS	MFIT	MC		FAA	BE	DS	M-III
Wednesday	FAA	ITW-II Year IT A Section				BE	M-III	ETCE	SPORTS
Thursday	M-III	MFIT	DS	FAA		MFIT	ETCE	DE	SPORTS
Friday	ETCE	DE	BE	MFIT		BE/DS-II Year IT A Section			MC
Saturday	BE	DS	FAA	MFIT		COUNSELLING	DE	DS	MFIT

S.No	Subject Code	Subject	credits	Faculty
1	MC111PO	Mandatory Course	3	Md.Habeeb
2	HS201EG	Effective Technical Communication in English	3	Dr.Archana
3	HS202CM	Finance and Accounting	3	Mr.Jeelani Basha
4	BS207MT	Mathematics- III (P & S)	3	Dr V.Naganjaneyulu
5	ES214EC	Basic Electronics	3	R. Surender Reddy
6	ES216EC	Digital Electronics	3	K.Muralidhar
7	PC221IT	Data Structures	3	D.Venkatesh
8	PC222IT	Mathematical Foundations of Information Technology	3	Mrs. M. Neelima
9	ES251EC	Basic Electronics Lab	1	R.Surender Reddy
10	PC252IT	Data Structures Lab	1	D.Venkatesh/ Somnatha rao
11	PC253IT	IT Workshop	1	M. Shiva Rama Krishna/ B. Aravind

Class Incharge: Mrs Kaneez Fatima

Time Table I/C

HOD

Principal



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Sy. No: 32, HimayathSagar, Hyderabad-500091

DEPARTMENT OF INFORMATION TECHNOLOGY

Lesson Plan

Course Code : PC231IT	Course Title: JAVA PROGRAMMING	
L-T-P-D-C : 3-0-0-0-3	Credits: 3	Contact Hrs: 4
Mid Marks : 30	External Marks: 70	Total Marks: 100
Teaching Hrs : 65	Exam Duration: 3 hrs.	

S.No	Topics to be covered	Periods	Methodology	Text book/ references/
UNIT – I				
1	Object Oriented Programming: Principles, Benefits of Object Oriented Programming.	1	BB/PPT	T1
2	Introduction to Java: Java buzzwords, bytecode	1	BB/PPT	T1
3	Java Programming Fundamentals: Applet and Application program using simple java program	1	BB/PPT	T1
4	Data types, variables	1	BB/PPT	T1
5	Arrays, Operators	1	BB/PPT	T1
6	Expressions, Control statements	1	BB/PPT	T1
7	Type conversion and casting	1	BB/PPT	T1
8	Concepts of Classes, Objects	1	BB/PPT	T1
9	Constructors, Methods	1	BB/PPT	T1
10	Access control, This keyword, garbage collection	1	BB/PPT	T1
11	Overloading methods and constructors	1	BB/PPT	T1
12	Introducing access control, static, final	1	BB/PPT	T1
13	Nested and inner classes	1	BB/PPT	T1
14	Exploring string class, using command-line arguments.	1	BB/PPT	T1
15	Inheritance: Inheritance concept, Types of inheritance	1	BB/PPT	T1
16	Member access rules, use of super and final.	1	BB/PPT	T1
17	Polymorphism - dynamic binding,	1	BB/PPT	T1
18	Abstract classes and methods	1	BB/PPT	T1



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Sy. No: 32, HimayathSagar, Hyderabad-500091

DEPARTMENT OF INFORMATION TECHNOLOGY

	Total Periods	18		
	UNIT – II			
19	Interfaces: Defining an interface	1	BB/PPT	T1
20	Implementing interfaces, extending interface.	1	BB/PPT	T1
21	Packages: Defining, Creating and Accessing a Package, importing packages	1	BB/PPT	T1
22	Exception handling: Benefits of exception handling,	1	BB/PPT	T1
23	Classification checked exceptions and unchecked exceptions	1	BB/PPT	T1
24	Usage of try, catch, throw, throws and finally, rethrowing exceptions	1	BB/PPT	T1
25	Built in exceptions, creating own exception sub classes	1	BB/PPT	T1
26	Multithreading: Java Thread Model	1	BB/PPT	T1
27	The Main Thread, creating a Thread	1	BB/PPT	T1
28	Creating multiple threads, using is Alive() and join(), thread priorities	1	BB/PPT	T1
29	Synchronization	1	BB/PPT	T1
30	Inter thread communication	1	BB/PPT	T1
31	Deadlock	1	BB/PPT	T1
	Total Periods	13		
	UNIT – III			
32	Collections: Overview of Java Collection framework, commonly used Collection classes – Array List,	1	BB/PPT	T1
33	Linked List, Hash Set,	1	BB/PPT	T1
34	Tree Set,	1	BB/PPT	T1
35	Collection Interfaces – Collection, List, Set.	1	BB/PPT	T1
36	Accessing Collection via iterate, working with Map	1	BB/PPT	T1
37	Legacy classes and interfaces – Vector, Hash table,	1	BB/PPT	T1
38	Stack, Dictionary,	1	BB/PPT	T1



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

Sy. No: 32, HimayathSagar, Hyderabad-500091

DEPARTMENT OF INFORMATION TECHNOLOGY

39	Enumeration interface.	1	BB/PPT	T1
40	Other Utility classes: String Tokenizer	1	BB/PPT	T1
41	Date, Calendar, Gregorian Calendar, Scanner	1	BB/PPT	T1
42	Java Input/Output: exploring java.io	1	BB/PPT	T1
43	Java I/O classes and interfaces	1	BB/PPT	T1
44	File, Stream classes	1	BB/PPT	T1
45	Byte stream, character stream,	1	BB/PPT	T1
46	Serialization.	1	BB/PPT	T1
	Total Periods	15		
	UNIT – IV			
47	GUI Programming with java: The AWT class hierarchy	1	BB/PPT	T1
48	MVC architecture.	1	BB/PPT	T1
49	Applet Revisited: Basics, architecture and skeleton	1	BB/PPT	T1
50	Simple applet program	1	BB/PPT	T1
51	Event Handling: Delegation Event Model	1	BB/PPT	T1
52	Event Classes, Source of Events, Event Listener Interfaces.	1	BB/PPT	T1
53	Handling mouse and keyboard events, Adapter classes.	1	BB/PPT	T1
54	Database Programming using JDBC: Introduction to JDBC,	1	BB/PPT	T1
55	JDBC Drivers & Architecture	1	BB/PPT	T1
56	CURD operation Using JDBC, Connecting to non-conventional Databases	1	BB/PPT	T1
	Total Periods	10		
57	Exploring Swing: JLabel	1	BB/PPT	54
58	Image Icon, JTextField,	1	BB/PPT	T1
59	The Swing buttons, JTabbedPane,	1	BB/PPT	T1
60	JScrollPane, JList, JComboBox.	1	BB/PPT	T1



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

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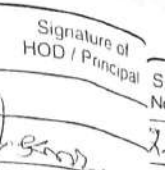
DEPARTMENT OF INFORMATION TECHNOLOGY

61	Servlet: Life cycle, using tomcat	1	BB/PPT	T1
62	Simple servlet	1	BB/PPT	T1
63	Servlet API, javax.servlet package, reading servlet parameters,	1	BB/PPT	T1
64	Javax.servlet.http package	1	BB/PPT	T1
65	handling HTTP requests and responses	1	BB/PPT	T1
	Total Periods	9		
	Grand Total	65		

TEXT BOOKS:

1. Herbert Schildt, "The Complete Reference Java, 7th Edition, Tata McGraw Hill, 2006.
2. James M Slack, Programming and Problem Solving with JAVA, Thomson Learning, 2002.

LECTURE SCHEDULE

Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal	Sl. No.
1	09/04/21	1	Introduction to Java	 19/11/21	27
2	09/04/21	1	OOPS concepts		28
3	16/04/21	1	OOPS principles, Buzzwords, by value		28
4	22/04/21	1	JPI: Applet & Application, Datatypes & Variables		29
5	23/04/21	1	Arrays, Operators, Expression, Control stmts		30
6	29/04/21	1	Type Conversion, Casting, class, objects, Constructors		31
7	30/04/21	1	Multiple Access Control, this keyword, G.C		32
8	03/06/21	1	Overloading methods & Constructors & Inheri-		33
9	04/06/21	1	access control, static, final, nested & inner class		34
10	08/06/21	2	Command line arg, Inheritance, Member Accs		35
11	10/06/21	2	Multi Polymorphism, abstract classes & Methods		36
12	11/06/21	1	Interfaces - Defining & Implementing		37
13	15/06/21	1	Packages - Defining, Creating & Accessing		38
14	17/06/21	1	Exception handling - Benefits		39
15	18/06/21	1	checked & unchecked except ⁿ , try/catch		40
16	22/06/21	1	Multi threading: Java thread Model		41
17	24/06/21	1	Dead lock		42
18	02/08/21	1	Collections Overview of Java		43
		1	Collections		44
19	31/8/21	1	Linked List Hash Set, TreeSet		45
20	5/8/21	2	Collection Interfaces - Collection list, set, accessing Collection via iterate, working with Map		46
21	6/8/21	1	Legacy classes & interfaces - Vector, Hashtable, Stack, Dictionary, Enumeration interface		47
22	9/8/21	2	Other Utility Classes - String Tokenizer, Date, Calendar, GregorianCalendar		48
23	10/8/21	1	Java IO classes & Interfaces File Stream, Character Stream		49
24	11/8/21	1	Stream - Serialization		50
25	12/8/21	1	GUI Programming with Java - the AWT class hierarchy.		51
26	13/8/21	1	MVC architecture.		52

LECTURE SCHEDULE

Signature of D.D / Principal	Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
	27	16/8/21	1	Applet Revisited Basics	
17/11/21	28	17/8/21	1	Simple Applet Program	
	28	18/8/21	1	Event Handling - Delegation Model	
	29	20/8/21	1	Event Classes, Source of Events, Event Listeners	
	30	23/8/21	1	Handling Mouse & Keyboard events, Adapter Classes.	
	31	24/8/21	1	Database Programming using JDBC - Introduction to JDBC	
25/8/21	32	25/8/21	1	JDBC Drivers & Architecture	B.S.S
	33	26/8/21	1	CURD Operation, Connecting to non-Conventional Databases.	
	34	27/8/21	1	Exploring Swing JLabel Image Icons, JText Field	
	35	28/8/21	1	The Swing buttons, JTabbedPane	
	36	29/8/21	1	JScrollPane, JList, JComboBox	
	37	31/8/21	1	Servlet: Life Cycle using tomcat	B.S.S
	38	01/9/21	1	Simple Servlet Program	
	39	02/9/21	1	Servlet API	
	40	03/9/21	1	Javax. Servlet Package	
	41	09/9/21	1	Reading Servlet Parameters	
B.S.S	42	16/9/21	1	Javax - Servlet. http Package	
	43	17/9/21	1	Handling HTTP requests	
				Handling HTTP responses.	

No	Name of it
1	Kanvez F
2	Sumanya
3	Dr Sumedh
4	R. Surendra
5	D. Sharon
7	M. Neelima
8	D. Venkate
9	B. Eshwar
10	Dr K. Nagi
11	S. Krishna



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Accredited 'A' grade by NAAC



Accredited by NBA

Sy.No:32, Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091

Subject: JP CIE-ITime: 2.30pm to 4.00pm (AN)Branch:IT B.E II/IV Date: / 09 /2021 SET 2

Bloom's Taxonomy Levels (TL)		
TL1 -Remember	TL2 Understand	TL3 -Apply
TL4-Analyze	TL5 -Evaluate	TL6 -Create

PART -A

SAQ- Answer all the questions

6*1=6 marks

Q.No.	Question	Taxonomy Level	CO Mapping
1.	List the different collection classes and interfaces	TL1	CO3
2.	Write about the vector class with example.	TL3	CO3
3.	Explain AWT controls	TL2	CO4
4.	Write about delegation event model.	TL2	CO4
5.	What are the merits of swing components over AWT?	TL2	CO5
6.	Define JLabel	TL1	CO5



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Accredited 'A' grade by NAAC  Accredited by NBA

Sy.No:32, Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091

Subject: JP CIE-I Time: 2.30pm to 4.00pm (AN) Branch: IT B.E. II/IV Date: 1/09/2021 SET 2

PART-B

LAQ- Answer any two of the following

7*2= 14 Marks

Q.No.	Question	Taxonomy Level	CO Mapping
7.	Explain about various Legacy classes and interfaces	T14	CO3
8.	Explain MVC architecture in Java	T13	CO4
9.	Explain the Hierarchy of Java Swing classes	T14	CO5

Sl. No.	Roll No.	Name of the student	Internal Exams (20 Marks)										Total Marks	Grade
			PART A					PART B						
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10		
1	160919737001	ABDUS ALI KHAN	1	1	1	1	1	1	7	6		7	26	
2	160919737002	ABDUL AZIZ MOHAMMED	1	1	1	1	1	6		6		7	25	
3	160919737003	ABDUL MALIK ADNAN	1	1	1	1	1	7		6		10	29	
4	160919737004	ABDUL RAHMAN BIN SALAM	1	1	1	1	1	7		6		8	27	
5	160919737005	ABDUL SAMAD	1	1/2	1	1	1	7	6			7	25 1/2	
6	160919737006	ABDUL SHAKOOR ZEBISHAN	1	1	1	1	1	7	6			10	29	
7	160919737007	AHMED FARAZ KHAN	1	1	1	1	1	7	6			7	26	
8	160919737008	AHMED IBRAHIM	1	1	1	1	1	7	6			10	29	
9	160919737009	AMEENUDDIN	1	1	1	1	1	7	7			10	30	
10	160919737010	AMER KHAN	1	1	1	1	1	7	6			10	29	
11	160919737011	AMMAR AHMED SHAIKH	1	1	1	1	1	7	6			10	29	
12	160919737012	AMMAR A'TEEQUDDIN	1	1	1	1	1	7		5		7	25	
13	160919737013	ANAS AHMED SHAREEF	1	1	1	1	1	7		6 1/2		7	26 1/2	
14	160919737014	ANAS MUSHTAQ MOHAMMED	1	1	1	1	1	7	6			7	26	
15	160919737015	ARSHAD KHAN	1	1	1	1	1	7	6 1/2			7	26 1/2	
16	160919737016	ASAD SAIF ULLAH	1	1	1	1	1	7	5			7	25	
17	160919737017	ASHHAR ALI FAHAD	1	1	1	1	1	7		6		7	26	
18	160919737018	AWAIS AHMED	1	1	1	1	1	7	6 1/2			7	26 1/2	
19	160919737019	FAISAL BAIG	1	1	1	0	1	7	6			7	25	
20	160919737020	FARAZ SYED AHMED RAZYI	1	1	1	1	1	7		6		9	28	
21	160919737021	HASHER ATHER ANWAR	1	1	1	1	1	7	6 1/2			7	26 1/2	
22	160919737022	IBAAD MOHAMMED HAMEEDUDDIN	1	1	1	1	1	7	6 1/2			10	29 1/2	
23	160919737023	IBRAHIM MOHAMMED NAYEM	1	1	1	1	1	7	6 1/2			10	29 1/2	
24	160919737024	IMAAD UDDIN FAROOQUI	1	1	1	1	1	7		6		7	26	
25	160919737025	J YOUSUF ALI KHAN	1	1	1	1	1	7	7			7	27	
26	160919737026	KHAJA AASIMUDDIN AMEEN	1	1	1	1	1	7		6		7	26	
27	160919737027	KHAN EMAD RIYAZ	1	1	1	1	1	7	7			9	29	
28	160919737028	MASHOOD MAHMOOD HASAN	1	1	1	1	1	7	7			7	27	
29	160919737029	MD FAISAL MOHUDDIN SIDDIQUI	1	1	1	1	1	7	6			10	29	

N S.	H.T.NO.	Name of the student	PART-A						PART-B			Assignments /Quizzes (10 Marks)	TOTAL
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9		
0	160919737030	MD IQBAL AHMED	1	1	1	1	1	1	7	6		7	26
1	160919737031	MD SALMAN AREEB	1	1	1	1	1	1	7	6 1/2		10	29 1/2
2	160919737032	MIR IBRAHIM ABBAS RAZVI	1	1	1	1	1	1	7	6 1/2		10	29 1/2
3	160919737033	MIR WAJAHATH ALI KHAN	1	1	1	1	1	1	7	6	6	10	29
4	160919737034	MIRZA ILYAS ALI BAIG	1	1	1	1	1	1	7		6	7	26
5	160919737035	MIRZA IQBAL AHMED BAIG	1	1	1	1	1	1	7		7	10	30
5	160919737036	MOHAMMAD SAJID	1	1	1	1	1	1	7	6		7	26
7	160919737037	MOHAMMED ABDUL AZEEM	1	1	1	1	1	1	7		6	7	26
8	160919737038	MOHAMMED ABDUL FAISAL	1	1	1	1	1	1	7	7		7	27
1	160919737039	MOHAMMED ABDUL MATEEN	1	1	1	1	1	1	7	6		7	26
1	160919737040	MOHAMMED ABDUL MUQTADIR	1	1	1	1	1	1	7		6	7	26
	160919737041	MOHAMMED ABDUL MUSTAAN	1	1	1	1	1	1	7	6		10	29
10	160919737042	MOHAMMED ABDUL NAWAAF	1	1	1	1	1	1	7	6		10	29
	160919737043	MOHAMMED ABDUL RAFAY	1	1	1	1	1	1	7	6		7	26
	160919737044	MOHAMMED ABRAR	1	1	1	1	1	1	7	6		10	29
	160919737045	SABHI UDDIN JAZEB	1	1	1	1	1	1	6	6		5	23
	160919737046	MOHAMMED ZAID FARAAZ	1	1	1	1	1	1	7	5		7	25
	160919737047	MOHAMMED ANZAR AMAAN	1	1	1	1	1	1	7	6		7	26
	160919737048	MOHAMMED ASLAM AHMED	1	1	1	1	1	1	7	6		7	26
	160919737049	MOHAMMED ASLAM KHAN	1	1	1	1	1	1	7	6 1/2		9	28 1/2
	160919737050	MOHAMMED AZEEMUDDIN	1	1	1	1	1	1	7	7		7	27
	160919737051	MOHAMMED BILAL	1	1	1	1	1	1	7	6 1/2		8	27 1/2
	160919737052	MOHAMMED FAIZAN HUSSAIN	1	1	1	1	1	1	7	6 1/2		7	26 1/2
	160919737053	MOHAMMED MUDASSIR ALI	1	1	1	1	1	1	7		6	10	29
	160919737054	MOHAMMED MUSADDIQ ALI KHAN	1	1	1	1	1	1	7	6		7	26
	160919737055	MOHAMMED MUSTAFA	1	1	1	1	1	1	7		7	7	27
	160919737056	MOHAMMED NAJAM UDDIN AWAIS	1	1	1	1	1	1	7		6 1/2	7	26 1/2
	160919737057	MOHAMMED NAVEED ANSARI	1	1	1	1	1	1	7	6		10	29
	160919737058	MOHAMMED OBAID	1	1	1	1	1	1	7	6		10	29
	160919737059	MOHAMMED OBAID UR RAHMAN	1	1	1	1	1	1	7	7		7	27
	160919737060	MOHAMMED OMER SIDDIQUI	1	1	1	1	1	1	7		7	10	30

160919737061
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Signature of the Staff
↓
Sumayya Begum

Signature of the HOD
↓
[Signature]

Sl. No.	Roll No.	Name of the Candidate	Theory (Max. Mark: 30)								Practical (Max. Mark: 5)	Total
			PART A				PART B					
1	160919737061	MOHAMMED RIYAAN	1	1/2	1	1/2	1	1	7	6	10	28
2	160919737062	MOHAMMED SAIF AHMED	1	1	1	1	1	1	6	6	10	28
3	160919737063	MOHAMMED SAMEEL KHAN	1	1	1	1	1	1	7	6	10	29
4	160919737064	MOHAMMED SOHAIB ZAHOR	1	1	1/2	1/2	1	1	6	6	9	26
5	160919737065	MOHAMMED ZUBAIR HUSSAIN	1	1	1/2	1	1/2	1	6	6	9	26
6	160919737066	MOHAMMED ZULQARNAIN	1	1	1	1/2	1/2	1	6	5	9	25
7	160919737067	MOHD MAHBOOB	1	1	1/2	1/2	1	1	6	5	8	24
8	160919737068	MOHD SAMEE UDDIN	1	1	1	1	1	1	6	6	9	27
9	160919737069	MOHD SAMI ULLAH KHAN	1	1	1	1/2	1/2	1	6	5	9	27
10	160919737070	MOHD SHABAZ	1	1	1	1/2	1/2	1	6	6	9	26
11	160919737071	MOHD SHOAIB AHMED	1	1/2	1	1/2	1	1	6	6	10	27
12	160919737072	MOHD SIRAJ UDDIN	1	1	1	1	1	1	6	6	9	27
13	160919737073	MOHD VIQARUDDIN	1	1	1/2	1	1/2	1	6	5	8	24
14	160919737074	MUDASIR PATEL	1	1	1	1	1	1	6	5	9	26
15	160919737075	NAMIRA FAIZ	1	1	1	1	1	1	6	5	9	26
16	160919737076	OMAIR ABDUR RAHMAN QURAISHI	1	1	1	1	1	1	6	5	8	25
17	160919737077	RABAB FATIMA HUSSAIN	1	1	1	1	1	1	7	6	9	28
18	160919737078	RASHIA ANJUM	1	1	1	1	1	1	6	6	9	27
19	160919737079	SHAIK ABDUL RAHMAN	1	1	1	1	1	1	6	5	8	25
20	160919737080	SHAIK AFNAN ALI	1	1	1	1	1	1	6	5	9	26
21	160919737081	SHAIK AHMED	1	1/2	1	1/2	1	1	6	5	9	25
22	160919737082	SHAIK FAHAN AHMED	1	1	1	1	1	1	6	6	9	27
23	160919737083	SHAIK ISMAIL	1	1	1/2	1/2	1	1	5	5	9	24
24	160919737084	SHAIK SAIF ALI	1	1	1	1	1	1	6	6	9	27
25	160919737085	SHAIK SHOAIB	1	1	1	1/2	1/2	1	6	5	8	24
26	160919737086	SHAIK TOUSIF	1	1	1	1	1	1	6	6	9	27
27	160919737087	SHAIK ZUBAIR AHMED	1	1/2	1	1/2	1	1	6	5	8	24
28	160919737088	SHIHAN KHALEEL AHMED	1	1	1/2	1/2	1	1	6	5	9	25
29	160919737090	SYE MAQDOOM HUSSAINI	1	1	1	1	1	1	6	6	9	27
30	160919737091	SYED ABDUL SABOOR	1	1	1	1	1	1	6	6	9	27
31	160919737092	SYED ASAD UDDIN AHMED	1	1	1/2	1/2	1	1	6	5	9	25
32	160919737094	SYED AZAMUDDIN	1	1	1	1	1	1	6	6	9	27

IVSE
BRANCH

Sl. No.	H.I.N.C.A.	Name of the student											
33	160919737095	SYED FAHAD	1	1	1	1	1	1	7	6			
34	160919737096	SYED FAWAZ ALI	1	1	1	1	1	1	6	5	5		
35	160919737097	ASPIYA SAMREEN	1	1/2	1	1/2	1	1	6	5		10	
36	160919737098	SYED IBRAHIM AMAAN	1	1	1	1	1	1	6	5		9	26
37	160919737099	SYED IDRIS HUSSAINI	1	1	1/2	1/2	1	1	6	5		8	24
38	160919737100	SYED HITEZAAZ HUSSAIN	1	1/2	1	1/2	1	1	6	5		9	25
39	160919737101	SYED MOHILUDDIN MUYASSIR	1	1	1	1	1	1	6	5		9	26
40	160919737102	AYESHA KHATOON	1	1/2	1	1/2	1	1	6	5		10	26
41	160919737103	SYED MUDEYASIR SAMI	1	1	1	1	1	1	7	3		9	25
42	160919737104	SYED MUZAFFER AHMED	1	1	1/2	1	1/2	1	6	5		8	24
43	160919737105	SYED MUZAMMIL YASEEN	1	1/2	1	1/2	1	1	6	5		9	25
44	160919737106	SYED NAZEERUDDIN	1	1	1	1/2	1	1	6	5		9	26
45	160919737107	AMATUN NOOR SADIQ	1	1	1	1	1	1	7	6		10	29
46	160919737108	SYED SAFWAN AHMED	1	1	1	1	1	1	6	6		9	
47	160919737109	SYED SAMEER	1	1/2	1	1	1/2	1	6	5		8	24
48	160919737110	SYED SHADAB	1	1	1	1/2	1	1	6	4 1/2		9	25
49	160919737111	MAHEEN SAMI	1	1	1	1	1	1	6	4		9	25
50	160919737112	SYED SHOEB AHMED	1	1	1	1/2	1/2	1	6	6		9	26
51	160919737113	SYED TAZAFAR MEJIDI	1	1	1	1	1	1	6	6		9	27
52	160919737114	SYED ZAID AHMED	1	1	1	1	1	1	6	5		9	26
53	160919737115	UZAIR MIRZA BAIG	1	1	1	1/2	1/2	1	6	6		9	26
54	160919737116	WAJAHATH ALI	1	1	1	1	1	1	6	6		10	28
55	160919737117	ZAID MOHAMMED	1	1	1	1	1	1	6	5		9	26
56	160919737118	ZUB QHARNAIN MUSTAFA SHERIFF	1	1	1	1/2	1/2	1	6	7		9	27
57	160919737119	MOHAMMED ALAMKHAN	1	1	1/2	1/2	1	1	6	5		9	25
58	160919737120	MOHAMMED AMIRKHAN	1	1	1	1/2	1/2	1	6	5		9	25
59	160919737301	MOHAMMED ATILAK	1	1	1	1	1	1	6	6		9	27
60	160919737302	MCHD YASEEN AHMED	1	1	1	1	1	1	6	6		9	27
61	160919737303	SHARIB KHAN	1	1	1	1	1	1	6	6		9	27
62	160919737304	SYED AHMED HUSSAIN	1	1	1/2	1	1/2	1	6	05		8	24
63	160919737305	SYED MOHTASHIM AHMED	1	1	1	1	1	1	7	6		10	29
64	160919737306	SYED SAFIUR HUSSAIN	1	1	1	1	1	1	6	6		9	27
65	160919737307	SYED SHARAAZ ALI	1	1	1	1	1	1	7	6		10	29
66	160919737308	SYED SULTAN MOHILUDDIN HUSSAINI	1	1	1/2	1/2	1	1	6	5		9	25

Name of the Staff	Signature of the Staff	Signature of the HOD
D Venkatesh		

1	160919737001	ABBAS ALI KHAN	1	1	1	1	1	1	5	6	8	25
2	160919737002	ABDUL AZIZ MOHAMMED	1	1	1	1	1	0	5	6	8	24
3	160919737003	ABDUL MALIK ADNAN	1	1	1	1	1	1	5	6	10	26
4	160919737004	ABDUL RAHMAN BIN SALAM	1	1	1	1	1	1	7	6	10	29
5	160919737005	ABDUL SAMAD	1	1	1	1	1	1	5	6	10	27
6	160919737006	ABDUL SHAKOOR ZEESHAN	1	1	1	1	1	0	5	7	10	27
7	160919737007	AHMED FARAZ KHAN	1	1	1	1	1	0	5	5	8	23
8	160919737008	AHMED IBRAHIM	1	1	1	1	1	1	5	6 1/2	10	27 1/2
9	160919737009	AMEENUDDIN	1	1	1	1	1	1	7	7	10	30
10	160919737010	AMER KHAN	1	1	1	1	1	1	7	7	10	30
11	160919737011	AMMAR AHMED SHAIKH	1	1	1	1	1	1	5	7	10	28
12	160919737012	AMMAR ATEEQUDDIN	1	1	1	1	1	0	5	5	10	25
13	160919737013	ANAS AHMED SHAREEF	1/2	1/2	1/2	1/2	1/2	1/2	4	4	6	17
14	160919737014	ANAS MUSHTAQ MOHAMMED	1	1	1	1	1	0	5	7	10	27
15	160919737015	ARSHAD KHAN	1	1	1	1	1	1	5	5	10	26
16	160919737016	ASAD SAIF ULLAH	1	1	1	1	1	0	5	5	8	23
17	160919737017	ASHI HAR ALI FAHAD	1	1	1	1/2	1	1	5	5 1/2	8	24
18	160919737018	AWAIS AHMED	1	1	1	1	1	1	7	5	8	26
19	160919737019	FAISAL BAIG	1	1	1	1	1	1	5	5	9	25
20	160919737020	FARAZ SYED AHMED RAZVI	1	1	1	1	1	1	5	5	9	25
21	160919737021	HASHER ATHER ANWAR	1	1	1	1	1	1	5	5	10	26
22	160919737022	IBAAD MOHAMMED HAMEEDUDDIN	1	1	1	1	1	1	7	7	10	30
23	160919737023	IBRAHIM MOHAMMED NAYEEM	1	1	1	1	1	1	5	6	10	27
24	160919737024	IMAAD UDDIN FAROOQUI	1	1	1	1	1	0	5	5	10	25
25	160919737025	J YOUSUF ALI KHAN	1	1	1	0	1	1	5	6	10	26
26	160919737026	KHAJA AASIMUDDIN AMEEN	1	1	1	0	1	1	5	6	10	26
27	160919737027	KHAN EMAD RIYAZ	1	1	1	1	1	1	5	6	10	27
28	160919737028	MASHOOD MAHMOOD HASAN	1	1	1	1	1	1	5	5	8	24
29	160919737029	MD FAISAL MOHIUDDIN SIDDIQUI	1	1	1	1	1	0	5	6	10	26

30	160919737030	MD IQBAL AHMED	1	1	1	1	1	1	5	7	8	26
31	160919737031	MD SALMAN ARREB	1	1	1	1	1	0	5	7	10	27
32	160919737032	MIR IBRAHIM ABBAS RAZVI	1	1	1	1	1	1	5	5	10	26
33	160919737033	MIR WAJAHATH ALI KHAN	1	1	1	1	1	1	5	5	10	26
34	160919737034	MIRZA ILYAS ALI BAIG	1	1	1	1	1	1	5	7	8	26
35	160919737035	MIRZA IQBAL AHMED BAIG	1	1	1	1	1	1	7	6	10	29
36	160919737036	MOHAMMAD SAJID	1	1	1	1/2	1	1	5	5	8	23 1/2
37	160919737037	MOHAMMED ABDUL AZEEM	1	1	1	1/2	1	0	5	5	8	22 1/2
38	160919737038	MOHAMMED ABDUL FAISAL	1	1	1	1/2	1	1	5	6	10	26 1/2
39	160919737039	MOHAMMED ABDUL MATEEN	1	1	1	1/2	1	0	5	6	8	23 1/2
40	160919737040	MOHAMMED ABDUL MUQTADIR	1	1	1	1/2	1	0	5	5	10	24 1/2
41	160919737041	MOHAMMED ABDUL MUSTAAN	1	1	1	1	1	1	5	5	10	26
42	160919737042	MOHAMMED ABDUL NAWAZ	1	1	1	1	1	0	5	7	10	27
43	160919737043	MOHAMMED ABDUL RAFEY	1	1	1	1	1	0	5	5	8	23
44	160919737044	MOHAMMED ABRAR	1	1	1	1	1	0	5	7	9	26
45	160919737045	SABHI UDDIN JAZEB	1	1	1	1	1	0	5 1/2	5	10	25 1/2
46	160919737046	MOHAMMED ZAID FARAAZ	1	1	1	1	1	1	5	5	8	23
47	160919737047	MOHAMMED ANZAR AMAAN	1	1	1	1/2	1	1	5	5	8	24 1/2
48	160919737048	MOHAMMED ASLAM AHMED	1	1	1	1	1	1	5	5	10	26
49	160919737049	MOHAMMED ASLAM KHAN	1	1	1	1	1	1	5 1/2	7	10	28 1/2
50	160919737050	MOHAMMED AZEEMUDDIN	1	1	1	1	1	0	7	5	10	27
51	160919737051	MOHAMMED BILAL	1	1	1	1	1	1	5	5	9	25
52	160919737052	MOHAMMED FAIZAN HUSSAIN	1	1	1	1	1	1	5	7	10	28
53	160919737053	MOHAMMED MUDASSIR ALI	1	1	1	1	1	0	5	7	10	27
54	160919737054	MOHAMMED MUSADDIQ ALI KHAN	1	1	1	1	1	1	5	7	10	28
55	160919737055	MOHAMMED MUSTAFA	1	1	1	1	1	1	7	7	10	30
56	160919737056	MOHAMMED NAJAM UDDIN AWAIS	1	1	1	1	1	1	5	5	8	24
57	160919737057	MOHAMMED NAVEED ANSARI	1	1	1	0	1	1	6 1/2	6	8	25 1/2
58	160919737058	MOHAMMED OBAID	1	1	1	1	1	1	6	7	10	29
59	160919737059	MOHAMMED OBAID UR RAHMAN	1	1	1	1	1	1	5	7	8	26
60	160919737060	MOHAMMED OMER SIDDIQUI	1	1	1	1	1	1	7	7	10	30

Signature of the Staff

Signature of the HOD

Staff

SUMAYYA BEGUM





IT-B Name of the Subject: JAVA PROGRAMMING


MOHAMMED
 SHIBUJOU
 160919737060
 the Staff
 SUMA

Sl. No.	Name of the student	2.CIE (Max.Marks-30)										
		Internal Test (20 Marks)									Attendance (10 Marks)	Total
		PART-A					PART-B					
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9				
1	MOHAMMED RIYAAN	1	1	1	1	1	1	6	6		10	28
2	MOHAMMED SAIF AHMED	1	1	1	1	1	1	6	7		9	28
3	MOHAMMED SAMEE KHAN	1	1	1	1	1	1	7	0	7	10	30
4	MOHAMMED SOHAIB ZAHOOOR	1	1	1	1	1	1	6		6	9	27
5	MOHAMMED ZUBAIR HUSSAIN	1	1	1	1	1	1	6		6	10	28
6	MOHAMMED ZULQARNAIN	1	1	1	1	1/2	1/2	6 1/2		6	10	28
7	MOHD MAHBOOB	1	1	1	1	1	1	6		5 1/2	9	27
8	MOHD SAMEE UDDIN	1	1	1	1	1	1	7	6		10	29
9	MOHD SAMI ULLAH KHAN	1	1	1	1	1	1	6		6	9	27
10	MOHD SHABAZ	1	1	1	1	1	1	6		6	10	28
11	MOHD SHOAIB AHMED	1	1/2	1	1	1	1/2	6		5 1/2	9	26
12	MOHD SIRAJ UDDIN	1	1	1	1	1	1	7		6	10	29
13	MOHD VIQUARUDDIN	1	1/2	1	1	1/2	1	6		5 1/2	10	27
14	MUDASIR PATEL	1	1	1	1	1	1	6		5	9	26
15	NAMIRA FAIZ	1	1	1	1	1	1	7		6	9	28
16	OMAIR ABDUR RAHMAN QURAISHI	1	1	1	1	1	1	6	6		8	26
17	RABAB FATIMA HUSSAIN	1	1	1	1	1	1	7	7		9	29
18	RASHA ANJUM	1	1	1	1	1	1	7	6		10	29
19	SHAIK ABDUL RAHMAN	1	1/2	1	1	1	1/2	6		5	9	26
20	SHAIK AFNAN ALI	1	1	1	1	1	1	6		6	9	27
21	SHAIK AHMED	1	1	1	1	1	1	6		6	9	27
22	SHAIK FAHAN AHMED	1	1	1	1	1	1	6		5 1/2	9	27
23	SHAIK ISMAIL	1	1/2	1	1	1/2	1	6		6	9	26
24	SHAIK SAIF ALI	1	1	1	1	1	1	7		7	9	29
25	SHAIK SHOAIB	1	1	1	1	1	1	6		6	9	27
26	SHAIK TOUSIF	1	1	1	1	1	1	6		6	9	27
27	SHAIK ZUBAIR AHMED	1	1	1	1	1	1	7		6	9	28
28	SHEHAN KHALEEL AHMED	1	1	1	1	1	1	6		6	9	27
29	SYED MAQDOOM HUSSAINI	1	1	1	1	1	1	6	6		8	26
30	SYED ABDUL SAROOR	1	1	1	1	1	1	6	6		8	26
31	SYED ASAD UDDIN AHMED	1	1	1	1	1	1	6		6	8	26
32	SYED AZAMUDDIN	1	1	1	1	1	1	7	6		10	29

Roll No.	Name of the Staff	1	2	3	4	5	6	7	8	9	10	11	12
160919737095	SYED FAHAD	1	1	1	1	1	1	1	6	6	10	28	
160919737096	SYED FAWAZ ALI	1	1	1	1	1	1	1	6	6	9	27	
160919737097	ASFIYA SAMREEN	1	1	1	1	1	1	1	6	6	9	27	
160919737098	SYED IBRAHIM AMAAN	1	1	1	1/2	1	1/2	1	6	6	9	26	
160919737099	SYED IDRIS HUSSAINI	1	1	1	1	1	1	1	6	6	10	28	
160919737100	SYED IHTEJAZ HUSSAIN	1	1	1	1	1	1	1	6	6	10	28	
160919737101	SYED MOHIUDDIN MUDASSIR	1	1	1	1	1	1	1	6	6	10	28	
160919737102	AYESHA KILATOON	1	1	1	1/2	1	1/2	1	6	6	10	27	
160919737103	SYED MUNDASIR SAMI	1	1	1	1	1	1	1	6	6	10	28	
160919737104	SYED MUJAFER AHMED	1	1	1	1	1	1	1	6	6	9	27	
160919737105	SYED MUZAMMIL YASEEN	1	1	1	1	1	1	1	6	6	9	27	
160919737106	SYED NAZEERUDDIN	1	1	1	1	1	1	1	6	6	10	28	
160919737107	AMATUN NOOR SADAF	1	1	1	1	1	1	1	7	7	10	30	
160919737108	SYED SAFFWAN AHMED	1	1	1	1	1	1	1	6	6	9	27	
160919737109	SYED SAMEER	1	1	1	1	1	1	1	6	6	10	28	
160919737110	SYED SHADAB	1	1	1	1	1	1	1	6	6	9	27	
160919737111	NAHEEN SAMI	1	1	1	1	1	1	1	7	6	10	29	
160919737112	SYED SHOEAB AHMED	1	1	1	1	1	1	1	6	6	9	27	
160919737113	SYED TAZAFFAR MEHDI	1	1	1	1	1	1	1	6	6	8	26	
160919737114	SYED ZAID AHMED	1	1	1	1	1	1	1	6	6	10	28	
160919737115	UZAIR MIRZA BAIG	1	1	1	1	1	1	1	6	6	9	27	
160919737116	WAJAHATH ALI	1	1	1	1	1	1	1	6	6	10	28	
160919737117	ZAID MOHAMMED	1	1	1	1	1	1	1	6	6	9	27	
160919737118	ZULQARNAIN MUSTAFA SHERIFF	1	1/2	1	1	1/2	1	1	6	6	9	27	
160919737119	MOHAMMED ALAMKHAN	1	1	1	1	1	1	1	6	6	10	28	
160919737120	MOHAMMED AMERKHAN	1/2	1	1	1	1	1/2	1	6	6 1/2	9	27	
160919737301	MOHAMMED ATHAR	1	1	1	1/2	1	1	1	5	7	10	27	
160919737302	MOHD YASEEN AHMED	1	1	1	1/2	1	1	1	6 1/2	7	10	29	
160919737303	SHARIB KHAN	1	1	1	1/2	1	1	1	6 1/2	7	10	29	
160919737304	SYED AHMED HUSSAIN										10	10	
160919737305	SYED MOHTASHIM AHMED	1	1	1	1	1	1	1	7	6 1/2	10	30	
160919737306	SYED SAFDER HUSSAIN	1	1	1	1	1	1	1	6	7	10	29	
160919737307	SYED SHARAAZ ALI	1	1	1	1	1	1	1	7	6	10	29	
160919737308	SYED SULTAN MOHIUDDIN HUSSAINI	1	1	1	1	1	1	1	6	6	9	27	

Name of the Staff → D. Venkatesh

Signature of the Staff ↓ 

Signature of the HOD ↓ 

S.No

Roll No.

V-SEM B.E.

13.E



OSMANIA UNIVERSITY
HYDERABAD - 500 007

No 755/A/Stat/Acad/2021

Dated: 17-09-2021

To
The Principal,
University College for Commerce & Business Management
Osmania University
Hyderabad - 500 007

Sub:- **Almanac of MBA II Semester (Day & Evening) for academic year 2020-2021-**
Approval - Communicated - Reg

Ref:- Letter No 518/A/DBM/2021 dated 06-09-2021 from the Dean Faculty of Management, OU

Sir,

With reference to your letter cited, I am pleased to communicate the approval of the University for the following **Almanac of MBA II Semester (Day & Evening)** for the academic year 2020-2021

MBA II Semester (Day & Evening)

1	Commencement of Classes	01-06-2021
2	I Internal Assessment	04-08-2021 & 05-08-2021
3	II Internal Assessment	29-09-2021 & 30-09-2021
4	Last date of Instruction	13-10-2021
5	Preparatory Holidays	14-10-2021 to 22-10-2021
6	Commencement of Examinations	23-10-2021

Note: The Heads of Institutions/Department may review the syllabus covered on monthly basis and take remedial measures if required for completion of syllabus on time

Kindly acknowledge receipt

Yours sincerely,


DEPUTY REGISTRAR
(Academic)

Copy to:-

- 1 The Dean, Faculty of Management, OU
- 2 The Head, Department of Management, OU.
- 3 The Director, Directorate of Academic Audit, OU
- 4 The Director, University Foreign Relations Office, OU
- 5 The Director, (Infrastructure), OU - with a request to place this in the Univ Web site
- 6 The Chairperson, Board of Studies in Business Management, OU.
- 7 The Controller of Examinations, OU
- 8 The Addl Controller of Examinations (Professional/Confidential), OU
- 9 The Secretary to the Vice-Chancellor, OU
- 10 The P A to Registrar/Officer on Special Duty to V.C., OU

Handwritten: MR 745/Stat/DBM/2021
18/09/2021


PRINCIPAL
Lords Institute of Engineering & Tech.
Sy.No. 32, Himayath Sagar, Hyderabad-500 001

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY
 Approved by AICTE/Affiliated to Osmania University/Estd. 2002
TIME TABLE FOR THE ACADEMIC YEAR 2020-2021

Class: I MBA II-Semester

Branch / Section: MBA

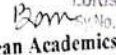
Room No: 525


Day / Period	I 9:30 am to 10:30 am	II 10:30 am to 11:30 am	III 11:30 pm to 12:30 pm	LUNCH 12:30 pm to 1:30 pm	IV 1:30pm to 2:30 pm	V 2:30 pm to 3:30 pm	VI 3:30 pm to 4:30 pm
MON	BRM	IB	HRM	L	SUM	MEMT EVENT	SPORTS
TUE	BRM	IB	FM	U	LIBRARY	SUM	SEMINAR
WED	IB	FM	BRM	N	HRM	SEMINAR	
THU	IB	SUM	FM	C	HRM	BRM	SEMINAR
FRI	FM	OC	HRM	H	PRAYER	SUM	MGMT EVENT
SAT	BRM	SUM	HRM		FM	IB	MENTORING

Course Code	Credits	Course Title	Acronym	Name of the Faculty
MB201	5	Human Resource Management	HRM	Mrs. J.Jayalakshmi
MB202	5	Financial Management	FM	Mrs.K.B.Vanitha
MB203	5	Business Research Methods	BRM	Dr. Syed Hamid Mohiuddin
		Open Elective-1		
MB204 - 3	4	International Business	IB	Mr. Dileep Kumar
		Open Elective-2		
MB205 - 3	4	Start Up Management	SUM	Dr. G. Chandra Shekar
MB206	1	Seminar	S	Mrs. Habeeb Jahan
		Management Events / Orator's Club	ME / OC	Respective faculty/Mr.Shaik Chand Pasha / Mr.M.A. Lateef
		Mentoring	M	Respective Faculty
		Library / Sports	L/S	Mrs. J.Jayalakshmi / Mr. Syed Shaibaz Faruddin


TT Incharge


Lord's School of Business
Lord Institute of Engineering & Technology


Dean Academics


PRINCIPAL
Lords Institute of Engineering & Tech
Sy. No. 32, Himayath Sagar, Hyderabad



LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)

Approved by AICTE/Affiliated to Osmania University /Estd. 2002.

Department of Management Studies

MBA II- Semester Examination
I- Internal Assessment Test SEPTEMBER- 2021

H.	T.	NO.	:	1	6	0	9	2	0	6	7	2			
----	----	-----	---	---	---	---	---	---	---	---	---	---	--	--	--

[Time: 30 MINS]

[Max. Marks: 15]

Note: Answer all the questions from Part A, B & C

Answer will be treated as incorrect if there is any overwriting

PART -A

[10 x 1/2 = 5]

- The research that is especially carried out to test and validate the study hypotheses is termed ()
(a) Fundamental research (b) Applied research
(c) Conclusive research (d) Exploratory research
- The research studies that explore the effect of one thing on another and more specifically, the effect of one variable on another are known as ()
(a) Causal research (b) Applied research
(c) Conclusive research (d) Exploratory research
- Marketing department of a business organization carries out researches related to ()
(a) Product (b) Pricing
(c) Promotion (d) All the above
- Change of origin and scale is used for calculation of the ()
(a) Arithmetic mean (b) Geometric mean
(c) Weighted mean (d) Lower and upper quartiles
- The suitable average for qualitative data is ()
(a) Mean (b) Median
(c) Mode (d) Geometric mean
- Mode of the series 0, 0, 0, 2, 2, 3, 3, 8, 10 is ()
(a) 0 (b) 2
(c) 3 (d) No mode
- If the probability of an even is 'p' the probability of its complementary event will be ()
(a) $p - 1$ (b) p
(c) $1 - p$ (d) $1/p$
- The probability that a non-leap year selected at random will contains 53 Mondays is ()
(a) $1/7$ (b) $2/7$
(c) $3/7$ (d) $5/7$
- A card is drawn from a well-shuffled pack of 52 playing cards. The event E is that the card drawn is not a face card. The number of outcomes favourable to the event E is ()
(a) 51 (b) 40
(c) 36 (d) 12
- Rashmi has a die whose six faces show the letters as given below ABCDAC If she throws the die once, then the probability of getting C is ()
(a) $1/3$ (b) $1/4$
(c) $1/5$ (d) $1/6$


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PART –B

[10 x 1/2 = 5]

Fill in the blanks:

1. The researcher who is conducting the research must be _____ and neutral in approach.
2. Research always requires a _____ and _____ method of inquiry
3. Research is done for _____ existing theories or arriving at new _____
4. The assumption about the expected result of the research is called the _____
5. The range of the data 14, 27, 29, 61, 45, 15, 9, 18 is _____
6. In a grouped frequency distribution, the mid values of the classes are used to measure for finding _____ central tendency.
7. The class mark of the class 120 – 150 is _____
8. The probability of an event is less than or equal to but greater than or equal to _____
9. If E is an event then $P(E) + P(\overline{E}) =$ _____
10. The probability of an impossible event is _____

PART –C [5x1=5]

Answer the following Questions

1. Find the median of 10, 16, 12, 20, 14, 18. 12.
2. If the mode of 12, 16, 19, 16, x, 12, 16, 19, 12 is 16, then find the value of x
3. From the following data of the marks obtained by students of class X

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No of Students	8	12	20	30	10	10

Find how many students, secured less than 40 marks?

4. A bag contains 5 red marbles and 3 black marbles. Three marbles are drawn one by one without replacement. What is the probability that at least one of the three marbles drawn be black, if the first marble is red?
5. Suppose 10,000 tickets are sold in a lottery each for Re 1. First prize is of Rs 3000 and the second prize is of Rs. 2000. There are three third prizes of Rs. 500 each. If you buy one ticket, what is your expectation


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LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY (C.C-1609)

Approved by AICTE/Affiliated to Osmania University/Estd.2002

MBA II SEM – INTERNAL ASSESSMENT For 1&2- CONSOLIDATED REPORT (A.Y.2020-21) ----

BRANCH: **MBA**

Subject Name: **BRM**

Sl. No.	H.T.NO.	Name of the student	1st Internal Assessment (Max.Marks-15)	2nd Internal Assessment (Max.Marks-15)	Average of 2 Internals	Assignment (05 Marks)	TOTAL (20 Marks)	
1	160920672001	KALAKANTI SNEHARIKA	14	15	15	5	20	
2	160920672002	MOHAMMED TOUFEEQ	13	13	13	5	18	
3	160920672003	NAUREEN BEGUM	13	11	12	5	17	
4	160920672004	AMREEN BEGUM	15	12	14	5	19	
5	160920672005	MOHD ZAFAR	14	12	13	5	18	
6	160920672006	WAJIHA FATIMA	14	11	13	5	18	
7	160920672007	SYEDA ABIRA FATIMA	13	14	14	5	19	
8	160920672008	MD AJMAL AHMED	13	11	12	5	17	
9	160920672009	BAKKA JHANSI	13	12	13	5	18	
10	160920672010	M NANDINI	13	14	14	5	19	
11	160920672011	ABDUL MALIK BIN ABDULLAH	13	11	12	5	17	
12	160920672012	MOHAMMED JABBAR	14	11	13	5	18	
13	160920672013	MD ZAIN AHMED	14	12	13	5	18	
14	160920672014	MOHAMMED SHOAB	ABSENT					
15	160920672015	SYED KHAJA SUFIYAN ALI	14	13	14	5	19	
16	160920672016	LUBNA AFREEN	15	12	14	5	19	
17	160920672017	ASRARUDDIN	14	14	14	5	19	
18	160920672018	MD TASAFUR AHMED	13	12	13	5	18	
19	160920672019	DASARI VIDYA SAGAR	13	12	13	5	18	
20	160920672020	MOHAMMED OWAIS AHMED	13	12	13	5	18	
21	160920672021	MD MUQTAR AHMED	14	15	15	5	20	
22	160920672022	MIRZA MAQDOOM BAIG	13	12	13	5	18	
23	160920672023	MOHAMMAD MUNEEB AHAMAD	14	12	13	5	18	

S. N O.	H.T.NO.	Name of the student	1st Internal Assessment (Max.Marks-15)	2nd Internal Assessment (Max.Marks-15)	Average of 2 Internals	Assignment (05 Marks)	TOTAL (20 Marks)
24	160920672024	G MAHENDER	14	11	13	5	18
25	160920672025	BODDEM SIDDESHWAR YADAV	13	13	13	5	18
26	160920672026	M D AMER	13	12	13	5	18
27	160920672027	MOHD KHASIM	13	11	12	5	17
28	160920672028	AYESHA TABASSUM	13	12	13	5	18
29	160920672029	S RESHMA NIKHAT	13	13	13	5	18
30	160920672030	MOHD ZAHED ALI	14	12	13	5	18
31	160920672031	SYED IRFAN	14	11	13	5	18
32	160920672032	SYED IMAAD UDDIN HASSAN	14	15	15	5	20
33	160920672033	MD IMRAN	13	12	13	5	18
34	160920672034	SANA M	13	12	13	5	18
35	160920672035	MOHAMMED HUMAID AHMED	14	15	15	5	20
36	160920672036	MOHAMMAD SAQLAIN VAZEER	13	14	14	5	19
37	160920672037	MOHAMMED MAZHAR AHMED	13	14	14	5	19
38	160920672038	THOTLA SRIJA	13	12	13	5	18
39	160920672039	MD AASIF IQBAL	12	12	12	5	17
40	160920672040	RANGINENI RAHUL	13	A	7	5	12
41	160920672041	MD REHAN	14	12	13	5	18
42	160920672042	P PRATHISHTATHA	14	A	7	5	12
43	160920672043	VIKRAM NAGAVELLI	13	12	13	5	18
44	160920672044	SYED HAMMAD UDDIN	15	10	13	5	18
	160920672045	PRADIP YADAV	14	13	14	5	19
45	160920672046	KONDI NARESH	ABSENT				
Name of the Staff		Dr Syed Hamid Mohideen Anceeli	Signature of the Staff		Signature of the HOD		
			[Signature]		[Signature]		

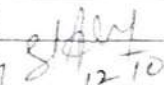
LECTURE SCHEDULE

Sl No	Date	No of Periods	TOPIC COVERED	Signature of HOD - Principal
1	3/6/21	1	Nature of business research	gldm 25/7
2	5/6/21	1	Criteria in business research reliability	
3	7/6/21	1	Research validity	
4	7/6/21	2	Research Design	
5	8/6/21	1	Modeling	
6	12/6	2	Modeling Problems	
7	14/6	2	Situational Model & choice	
8	15/6	1	Measurement of central Tendency	
9	19/6	2	Mean	
10	26/6	2	Mode	
11	28/6	2	Median	
12	29/6	2	Std Deviation	
13	1/7	1	Introduction to probability	
14	8/7	1	Problems on Prob	
15	10/7	1	Bayes Theorem	
16	13/7	1	Problems on Theorem	
17	14/7	1/2	Probable distributions: D.C.	
18	14/7	1/2	Binomial Dist	
19	17/7	1	Poisson Dist	
20	24/7	1	Normal Dist	
21	24/7	1/2	Scaling	
22	24/7	1/2	Types of scales	
23	26/7	1/2	Sources of Data	
24	26/7	1/2	Sampling	
25	27/7	1	Data collection Methods	
26	31/7	1/2	Hypothesis Testing	
27	31/7	1/2	The Errors in Testing	
28	7/9	1	T Test	
29	8/9	1	F Test	
30	9/9	1	chi square test	
31	14/9	1	Correlation Analysis	
32	16/9	1/2	Spurious correlation	
33	18/9	1/2	Rank Correlation	
34	21/9	1	Multiple Correlation	
35	22/9	1	Regression Analysis	

PRINCIPAL

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LECTURE SCHEDULE

S. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD, Institute
36	23/09	1	Single Regression	 12/10
37	29/09	1	Multiple Regression	
38	29/09	1	properties of regression	
39	1/10	1	Time series Analysis	
40	2/10	1	Multiple models	
41	7/10	1	Mixed models	
			CVS	

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(UGC AUTONOMOUS INSTITUTE)

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Accredited 'A' grade by NAAC Accredited by NBA


DEPARTMENT OF MANAGEMENT STUDIES

Lesson Plan: BRM

Course Code : - MB 203	Course Title: Business Research Methods	
Mid Marks : 20	External Marks: 80	Total Marks: 100
Teaching Hrs : 60hrs	Exam Duration: 3 hrs.	Credits: 3

S.No.	SYLLABUS	Periods	Methodology	Text book/reference web references and additional to book referen
UNIT - I				
1.	Nature of Business Research, Criteria in Business Research	1	Online Zoom app	T1
2	Research Designs	1	Online PPTS	T1
3.	Exploratory research	1	Online PPTS	T1
4.	Descriptive & Diagnostics Studies.	2	Online PPTS	T1
5.	Measures of Central Tendency - Mean, Median - Mode	4	Online PPTS	T1
UNIT - II				
6.	Dispersion-Standard Deviation.	1	Online PPTS	T1
7.	Probability - Concepts and Definition.	3	Online PPTS	T1
8.	Addition and Multiplication Theorems, Baye's Theorem and its Applications.	2	Online PPTS	T1
9.	Binomial and Poisson's Distribution and Applications.	3	Online PPTS	T1
10.	Normal Probability Distribution - Properties and Applications.	2	Online PPTS	T2
UNIT - III				
11.	Measurement and Scaling Techniques, Nominal, Ordinal, Interval and Ratio Scales. 2	2	Online PPTS	T1
12	Primary and Secondary	1	Online Zoom app	T1
13	Purpose and Benefits of Sampling,	3	Online PPTS	T2
14	Techniques of Sampling,	2	Online PPTS	T1


Signature of Faculty


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Sy.No. 32, Himayath Segar, Hyderabad-500099
Signature of Principal


Signature of HOD

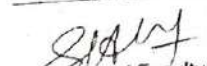
15	Questionnaires Design.	1	Zoom App	T1
UNIT - IV				
16	Data Analysis I Hypothesis Testing : Type-I, Type-II Errors.	2	Online PPTS	T2
17.	Statistical Estimation, Point and Interval Estimation.	2	Online PPTS	T1
18.	Properties of Good Estimator. Confidential Interval.	1	Online PPTS	T2
19.	Large Sample Test: Test for one and Two Means.	1	Online PPTS	T2
20	Test. for One and Two Proportions. Small Sample Test	1	Online PPTS	T1
21	T-Distribution, properties and Applications, Paired T-Test	1	Online PPTS	T2
22	Analysis of Variance -	1	Online PPTS	T1
23	One way and Two way Anova.	1	Online PPTS	T1
24	Test for Goodness of fit.	1	Online PPTS	T1
25	Chisquare Distribution.	1	Online PPTS	T1
UNIT - V				
26	Correlation Analysis.	2	Online PPTS	T2
27.	Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation.	2	Online PPTS	T2
28	Regression Analysis-Concepts.	1	Online PPTS	T1
29	Least Square Fit of a Linear Regression, Two Lines of Regression.	2	Online PPTS	T1
30	Properties of Regression Coefficients. Basics of Multiple Regression.	1	Online PPTS	T1
31	Tend analysis.	1	Online PPTS	T1
32	Report writing-	1	Online PPTS	T1
33	Report Preparation and Presentation.	1	Zoom App	T1
34	Referencing Styles and Citation in Business Management Research.	1	Zoom App	T2
GRAND TOTAL		52		

Recommended Books:

R.L., Rubin S. David, "Statistics for Management", 2000, 7th Ed. Pearson. (T1)

S.C, "Fundamentals of Statistics", 2010, 6th Ed. HPH.(T2)

Arma, "Business Statistics", 2010, 2nd Ed. Pearson(T3)


Signature of Faculty


PRINCIPAL
Lords Institute of Engineering & Tech.
Signature of Principal
Sy.No. 32, Himayath Sagar, Hyderabad-500 091


Signature of HOD



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DEPARTMENT OF MECHANICAL ENGINEERING

LAB TIME TABLE: 2020-2021

W.e.f: 01-02-2021

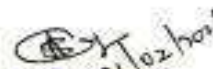
BE-MECHANICAL ENGINEERING

III-SEMESTER

PERIOD \ DAYS	9:30 AM to 11:15 AM	11: 15 AM to 01:00 PM	1:00PM to 1:30PM	01:30 PM to 4:30 PM
MON	EM	TD	L	MOS LAB- Batch-2/ MMS LAB- Batch-3/ MDM LAB - Batch-1
TUE	MMS	TD	U	MOS LAB- Batch-1/ MMS LAB- Batch-2/ MDM LAB - Batch-3
WED	EM	TD	N	MOS LAB- Batch-3/ MMS LAB- Batch-1/ MDM LAB - Batch-2
THUR	M-III	TD	C	MOS LAB- Batch-2/ MMS LAB- Batch-3/ MDM LAB - Batch-1
FRI	ETCE	FA	H	MOS LAB- Batch-1/ MMS LAB- Batch-2/ MDM LAB - Batch-3
SAT	BE	EM		MOS LAB- Batch-3/ MMS LAB- Batch-1/ MDM LAB - Batch-2

Subject Code	SUBJECT	ACRONYM	NAME OF THE FACULTY
HS201EG	EFFECTIVE TECHNICAL COMMUNICATION IN ENGLISH	ETCE	Ms. GRACE KUMARI ANCHA
HS202CM	FINANCE AND ACCOUNTING	FA	Ms. K.VANITHA
BS209MT	MATHEMATICS-III (PDE, PROBABILITY & STATISTICS)	M-III	Mr. SYED NASEERUDDIN
ES211CE	ENGINEERING MECHANICS	EM	Dr. MOHAMMED ANWARULLA/ Mr. MADHUKAR
ES214EC	BASIC ELECTRONICS	BE	Mr. HAKSHAYARDHAN VELAGAPUDI
PC221ME	METALLURGY AND MATERIAL SCIENCE	MMS	Mr. SIMHANA DEVI DUNGA
PC225ME	THERMODYNAMICS	TD	Mr. RAMAYATH SUNAN
PC251ME	METALLURGY AND MATERIAL TESTING LAB	MMS-LAB	Mr. MD MISBAHUDDIN (MOS) Mr. R. SIMAN Mr. SIMAN DEVI (MMS) Mr. PRASHANT
PC252ME	MACHINE DRAWING AND MODELLING LAB	MMD-LAB	Mr. MOGID KHALID AHMED Mr. SWAMY


T.T. INCHARGE


Head of the Department
Mechanical Engineering
Lords Institute of Engg. & Tech.
Hyderabad-500091.



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BE III Semester ,

Name of the Subject: Metallurgy and material
Science (Subject Code:PC221ME)

(Branch-Mechanical Engineering)

BTL1 -Remember

BTL2 -Understand

BTL3 -Apply

BTL4-Analyze

BTL5 -Evaluate

BTL6

-Create

*Part-A 06 Compulsory questions (6 Marks)

* Part-B 2 questions to be answered out of 3 questions, each question for 7 Marks.

Part-A compulsory questions (6x1 Mark=6 Marks)

Q.No.	Question	Marks	Bloom TaxonomyLevel	CO Mapping
1.	Define unit cell?	1M	BTL1	CO1
2.	Write about Packing Factor?	1 M	BTL1	CO1
3.	Compare creep and fatigue?	1M	BTL2	CO2
4.	Explain about Ductile to brittle transition?	1M	BTL2	CO2
5.	What is a solid solution?	1 M	BTL1	CO3
6.	Classify different solid solutions?	1 M	BTL4	CO1

Part-B Choice based questions (2 x 7 marks=14 Marks)

7.	Derive packing efficiency for simple cubic crystal structure?	7M	BTL5	CO1
8.	Explain the following terms: h) Ductility i) Brittleness j) Malleability k) Creep l) Fatigue m) Toughness n) Stiffness	7 M	BTL2	CO2
9.	List out Hume-Rothery Rules In details?	7 M	BTL1	CO3

LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY (C.C-1609)

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B.E. III SEMESTER - I CONTINUOUS INTERNAL EVALUATION, NOV, 2020

BRANCH: **MECH** Name of the Subject: **BEE**

Sl. NO.	Roll NO.	Name of the student	ICPE (Max. Marks 30)									Average Marks (10 Marks)	TOTAL
			Internal Test (20 Marks)						PART-B				
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9		
1	160919736001	ABDUL KHALIQUE	1	1	1	1	1	1	3	4		9	22
2	160919736002	ABDUL NADEEMUDDIN	1	0.5	1	0.5	1	1	4	3		9	21
3	160919736003	ABDUL RAHEEM	1	1	1	1	1	1	3	3		8	18
4	160919736004	ABDUL RAZZAQ	0.5	0.5	1	1	1	1	3	3		8	20
5	160919736005	ABDUL RAZZAQ	1	1	1	1	1	1	3	3		6	18
6	160919736006	ABSHAR HUSSAIN BAIG	1	1	1	1	1	1		3	3	7	19
7	160919736007	ATIF YAHYA KHAN	1	1	1	1	1	1		4	4	8	22
8	160919736008	IBRAHIM HABEEB HASHIM	1	0.5	0.5	1	1	1	3	3		7	18
9	160919736009	MD IMRAN	1	1	1	1	1	1		3	3	7	18
10	160919736010	MD SAKLAIN RAZA	1	1	1	1	1	1		3	3	6	18
11	160919736011	MD SOHAIL	← AB →									10	10
12	160919736012	MOHAMMAD SAAD SHABIR	1	0.5	0.5	1	1	1		4	4	8	21
13	160919736013	MOHAMMED ASLAM	← AB →									10	10
14	160919736014	MOHAMMED AWAIS	1	1	1	1	1	1		3	2	9	20
15	160919736015	MOHAMMED ILYAS	← AB →									10	10
16	160919736016	MOHAMMED KASHIF	1	1	1	1	1	1		3	3	6	18
17	160919736017	MOHAMMED MUNEEM AHMED	1	0.5	0.5	1	1	1	4	3		6	18
18	160919736018	MOHAMMED MUSLEHUDDIN MUSHEEM	1	1	1	1	1	1		3	4	7	20
19	160919736019	MOHAMMED MUSTAFA	1	1	1	1	1	1	3	3		7	20
20	160919736020	MOHAMMED OMER MUSADDAQ	1	0.5	0.5	1	1	1	5		2	8	20
21	160919736021	MOHAMMED SALMAN AZMAT ULLAH	1	1	1	1	1	1		3	3	9	21
22	160919736022	MOHD HABEEB ARIF	← AB →									10	10

Sl. No.	HT.NO.	Name of the student	PART-A						PART-B			Assignments / Quizzes (10 Marks)	TOTAL
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9		
24	160919736024	SHAIK ALWAAZ	1	1	1	1	1	1		3	3	9	21
25	160919736025	SHAIK ARBAAZ	← AB →									10	10
26	160919736026	SHAIK SOHAIL	1	1	1	1	1	1	2	3		8	19
27	160919736027	SHAIK. HAYATH TAPAZZUL	1	1	1	1	1	1		3	3	8	20
28	160919736028	SHAIKH SOHEL	← AB →									10	10
29	160919736029	SYED SUMAIR	1	1	1	1	1	1	2	3		10	21
30	160919736030	SYED ABDUL MUQEED	1	1	1	1	1	1		3	4	8	21
31	160919736031	SYED SAFI UDDIN	← AB →									10	10
32	160919736032	SYED SARFARAZ	0.5	1	0.5	1	1	1		3	4	9	21
33	160919736033	SYED SHAFI UDDIN IRFAN	1	1	1	1	1	1		4	3	7	22
34	160919736034	SYED ZAHEER UDDIN	0.5	1	0.5	1	1	1	3	3		8	19
35	160919736035	SYED ZAKARIA AHMED	1	1	1	1	1	1		3	4	8	21
36	160919736036	WALI MOFIAMMED IMRAN	1	1	1	1	1	1	3	3		7	19
37	160919736037	WASIM RAHMAN	0.5	0.5	1	1	1	1		3	3	6	17
38	160919736038	MD SOHRAB ALAM	1	1	1	1	1	1	4		2	7	19
39	160919736039	MUJTABA ABDUL RASHEED	0.5	0.5	1	1	1	1	2	3		7	17
40	160919736040	MOHAMMAD MUATAZ ALMOUSLI	1	1	1	1	1	1		3	3	8	20
41	160919736041	NAKHLESH	← AB →									10	10
Name of the Staff			Signature of the Staff						Signature of the HOD				
→ V. Harsha Vardhan			↓ V. Harsha						↓ 				

Lesson Plan:

Course Code : PC221ME	Course Title: Metallurgy and material science	
L-T-P-D-C : 3-0-0-0-3	Credits: 3	Contact Hrs: 03
Mid Marks : 25	External Marks: 75	Total Marks: 100
Teaching Hrs : 48	Exam Duration: 3 hrs.	

L · No.	Syllabus	Periods	Methodology	Text book/references /web references and additional text book reference
UNIT - I				
Crystal Structure				
1.	Introduction: Introduction to Materials engineering, classification of materials- metals and alloys, ceramics, polymers and composites.	1	Online/Chalk & Talk	SR1, SR2, W1
2	Space lattice, unit cell, crystal structure, crystal directions and planes	1	Online/Chalk & Talk	SR2, W2
3.	crystal imperfections- point defects, line defects, surface defects, volume defects, Types of dislocations	1	Online/Chalk & Talk,	SR2, W2
4	Effect of slip and twinning on the plastic deformation, Jogs and its effect on yield phenomenon,	1	Online/PPT	SR1, SR2, W1
5	Hall-Petch equation, Orange peel effect, cold and hot working, strain hardening and Bauchinger effect	1	Online/Chalk & Talk	SR2, W2
6	Recovery, Recrystallisation, Grain growth and its effect on mechanical properties of metals.	1	Online/Chalk & Talk	SR1, W1
7.	Mechanical properties of materials- Tensile properties, stress-strain diagrams, elasticity, plasticity,	1	Online/Chalk & Talk,	SR2, W2
8	ductility, toughness, modulus of elasticity, resolved shear stress, tensile and compression test, hardness and its measurement	1	Online/Chalk & Talk	SR2, W2

9	Bonds in solids(Gap)	1	Online/PPT	SR2,W2
UNIT -II Fracture, Fatigue and Creep				
10	Fracture: Ductile and Brittle fracture, modes of fracture, ductile to brittle transition,	1	Online/Chalk & Talk	SR2,W2
11	crack initiation and propagation.	1	Online/Chalk & Talk	SR2,W2
12	Fatigue: S-N curve, Structure of fatigue fracture specimen, Fatigue crack propagation,	1	Online/Chalk & Talk	SR1,W2
13	Effect of metallurgical variables on fatigue of metal,	1	Online/Chalk & Talk	Sr1,SR2,W2
14	Experimental determination of fatigue strength (RR-Moore Test).	1	Online/Chalk & Talk	SR2,W2
15	Creep: Creep strength, Creep curve,	1	Online/Chalk & Talk	SR1,W2
16	Creep deformation mechanisms, Creep Test,	1	Online/ PPT	SR1, SR2,W1
17	Differences between creep curve and stress rupture curve.	1	Online/Chalk & Talk	SR1,W2
UNIT -III Structure of Alloys				
18	Structure of Alloys: Types of solid solution,	1	Online/Chalk & Talk	SR1, SR2,W1
19	Substitutional solids	1	Online/Chalk & Talk,PPT	SR1,W2
20	Hume Rothary's rules for solid solution,	1	Online/Chalk & Talk	SR2,W2
21	Construction and interpretation of Binary equilibrium diagram,	2	Online/Chalk & Talk	SR1, SR2,W1
22	Isomorphous, Eutectic and Peritectic diagrams	1	Online/Chalk & Talk	SR1,W2
23	Intermediate phases and phase rule, Iron-Iron Carbide equilibrium diagram.	1	Online/Chalk & Talk	SR2,W2
24	construction and interpretation	1	Online/Chalk & Talk	SR1, SR2,W1
25	Types of Plain Carbon Steels,.	1	Online/Chalk & Talk	SR1,W2
26	Cast Iron and their properties and Characteristics	1	Online/Chalk & Talk	SR2,W2

UNIT- IV Alloy Steels				
27	Alloy Steels: Effects of alloying elements like Nickel,	1	Online/Chalk & Talk	SR2,W2,W1
28	Chromium	1	Online/Chalk & Talk	SR2,W2,W1
29	Manganese, Silicon and Tungsten,	1	Online/Chalk & Talk	SR2,W2,W1
30	Titanium. Study about Stainless steels, HSS, Maraging steels,	1	Online/Chalk & Talk	SR2,W1
31	Brass, Bronze, Muntz Metal, Invar,	1	Online/Chalk & Talk	SR2,W2,W1
32	Duralumin and Ti Alloy (Ti-6Al-4V) – their composition and Properties.	1	Online/Chalk & Talk,PPT	SR2,W2
33	Heat Treatment: Annealing, Normalising, Hardening.	1	Online/Chalk & Talk	SR2,W1
34	Tempering. Construction and interpretation of T.T.T Curve	1	Online/Chalk & Talk	SR2,W2
35	Austempering and Martempering, Case Hardening:	1	Online/Chalk & Talk	SR1,SR2,W2
36	Carburising, Nitriding, Carbo-nitriding.	1	Online/Chalk & Talk	SR1,SR2,W2
37	Flame Hardening, Induction Hardening. Brief introduction of Age Hardening	1	Online/Chalk & Talk	SR2,W2
UNIT- V				
38	Non-ferrous metals and alloys: Properties and applications of -Cu and its alloys,	1	Online/Chalk & Talk	SR2,W2
39	Al and its alloys, Age hardening, Ti and its alloys, Ni- based alloys	1	Online/Chalk & Talk	SR2,W2
40	Ceramics, Polymers and Composites:.	1	Online/Chalk & Talk	SR1,SR2,W2
41	Ceramics, crystalline ceramics	1	Online/Chalk & Talk	SR2,W2
42	glasses, properties and applications of ceramics,	1	Online/Chalk & Talk	SR1,SR2,W2
43	polymers-polymerization, thermoplastics and thermosetting plastics,.	1	Online/Chalk & Talk	SR1,W2
44	properties and applications of polymers	1	Online/Chalk & Talk,PPT	SR1,SR2,W2
45	Composites: concept of composites,	1	Online/Chalk & Talk	SR1,W2

46	matrix and reinforcement, rule of mixtures	1	Online/Chalk & Talk	SR1,SR2,W2
47	classification of composites, applications of composites.	1	Online/Chalk & Talk	SR1,SR2,W2
48	Miller indices(TBS)	1	Online/PPT	SR1,SR2,W2
Grand total:		48		

Suggested Reading (SR):

SR	Book Title/Author/Publication
SR1	V. Raghavan, "Material science and engineering", Prentice Hall of India Private Limited, 1999
SR2	S.H. Avner, Introduction to Physical Metallurgy, Tata McGraw Hill, 2nd Edn. 1997.
SR3	Kenneth G. Budinski and Michael K. Budinski, "Engineering materials", Prentice Hall of India Private Limited, 4 th Indian Reprint, 2002
SR4	U.C. Jindal, "engineering materials and metallurgy", Pearson, 2011

Web References:

W	Web References
W1	http://www.unidp.org/content/dam/india/docs/disaster_in_material_science.pdf
W2	https://www.researchgate.ac.in/publication/311435424_material_science

Teaching Aids/Teaching Methodology:

Zoom meeting (ZM)/ Google Classroom (GC)/ Chalk & Talk (CT)/ Power Point Presentation (PPT)/ Demonstration (Demo.)/ Animated Lectures (AL.)/ Guest lecture (GL.)/ Workshops (WS)/ Seminars (S)/ Pictorial sessions (PS)/ Quiz (Q)/ NPTEL Videos (NV)/ Open book test (OBT)/ Review web literature (RWL)/ Flipped Classroom (FC)/ Project- based learning (PBL)/ Real-time case studies (RTCS)/ Journal Review (JR)/ Research projects (RP)


Prepared by

Mrs. D. Simhana Devi

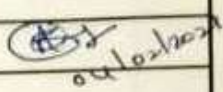
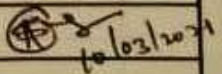
No.	Date	Periods	Topic
1.	12/10/2020	1	UNIT-I Introduction to Materials Engg, classification of materials
2	13/10/2020	1	Metals & Alloys
		2	Ceramic, polymers & composites.
3	14/10/2020	1	3 Space lattice unit cell, crystal structures & crystal directions
4	15/10/2020	1	4 & planes. crystal imperfections. point defects, line defects, surface defects
5	19/10/2020	1	5 Volume defects. Types of dislocations, Effect of slip
6.	20/10/2020	1	6 Twinning on the plastic deformation
7.	21/10/2020	1	7 Jogs & its effect on yield phenomenon Hall Petch Equation & grain size effect
8.	22/10/2020	1	8 Cold & hot working strain hardening, Baushinger's effect
9.	23/10/2020	1	9 Recovery, Recrystallisation
10.	24/10/2020	1	10 Grain growth, slip, effect on mechanical properties of metals
11.	3/11/2020	1	11 Tensile properties stress-strain diagram, elasticity, plasticity, ductility.
12.	4/11/2020	1	12 Toughness, modulus of elasticity, resolved shear stress, Tensile &
13.	5/11/2020	1	13 Compression test, hardness test & its measurement.
		1	UNIT-II Fracture (Brittle & ductile). Types of fracture,
14.	23/11/2020	1	14 ductile to brittle transition.
15.	24/11/2020	1	15 crack initiation & propagation, Effect of metallurgical variables of fatigue of metals. Fatigue S-N curve, structure of

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26	26/12/20	1	Effect of metallurgical variables on fatigue of metal.	
27	28/12/20	1	Experimental determination of fatigue strength (R-R-Hobe Test)	
28	29/12/20	1	Creep: Creep strength, creep curve, creep deformation mechanisms,	
29	31/12/20	1	Creep Test, Differences b/w creep curve & stress rupture curve	
30	5/1/2021	1	Creep Test, Differences b/w creep curve & stress rupture curve	
31	8/1/2021	1	(UNIT-III) Structure of alloys: Types of solid solution,	
32	10/1/2021	1	Substitutional & Hume Rothery's Rules for solid solution	
33	12/1/2021	1	Construction and interpretation Isoomorphous, Eutectic & peritectic diagrams, Intermediate phases & phase sub, Iron-Iron carbide equilibrium	
34	15/1/2021	1	Construction interpretation types of plain carbon steels, Cast iron & their practical characteristics	
35	17/1/2021	1	(UNIT-IV) Alloy Steel Effects of alloying elements like C, Mn, Si, Ti	
36	22/1/2021	1	Titanium, Study about Stainless steel, HSS, Maraging steel, Brass, Bronze, Muntz metal,	
37	5/1/12/21	1	INVAR, Duralumin, Ti alloys properties & composition	
38	07/1/12/21	1	Heat treatment: Annealing, Normalising, Hardening	
39	19/1/22	1		
40	28/1/2021	1		

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Sl. No.	Date	No. of Periods	TOPIC COVERED	Signature of HOD / Principal
41	20/12/21	1	Interpretation of TTT Annealing, normalizing	
42	21/12/21	1	Case Hardening, Carburizing Nitriding, Carbo-Nitriding Flame hardening, Induction hardening	
43	21/12/21	1	Brief introduction of age hardening <u>UNIT-V</u>	 02/02/2021
44	21/12/21	1	Non ferrous metal & alloys properties & applications of Cu & Al alloys	
45	21/12/21	1	Al & its alloys, Age hardening	
46	22/12/21	1	Ti & its alloys	
47	22/12/21	1	Ni based alloys. Ceramics, polymers &	
48	22/12/21	1	Composites, Ceramics	
49	23/12/21	1	Crystalline Ceramics, glasses properties & applications of	
50	26/12/21	1	Ceramics, polymers - polymerization thermoplastics & thermosetting plastics	
51	27/12/21	1	properties & applications of polymers	
52	21/12/21	1	polymers	
53	4/1/2022	1	Composites: Concept of composite matrix & reinforcement & role of	
54	13/1/21	1	matrix classification of	
55	10/1/21	1	(composites), appl. of FRP	 10/03/2021