

CRITERION 1	CURRICULAR ASPECTS	100 MARKS

CRITERION 1 (Curricular Aspects)

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including academic calendar and conduct of continuous internal assessment.

Table of Contents

S. No.	Title	Page no.
1	IKGPTU Academic Calendar	3
2	DAVIET Academic calendar	4
3	Load Allocation	6
4	Timetable	9
5	Syllabus	11
6	Course Outcomes (COs)	12
7	CO-PO Mapping	13
8	CO-PSO Mapping	14
9	Course Information Sheet	15
10	Lecture Delivery Plan	16
11	Syllabus Coverage Report	20
12	Assignments	21

13	Tutorials	24
14	Quiz	26
15	Teaching-Learning Activities	28
16	Project Report Front Page	49
17	MST Circular	50
18	MST Date sheet	52
19	MST Q paper	53
20	Answer Sheet Front Page	55
21	MST Award Sheet	56
22	MST Report	57
23	MST Result Analysis	58
24	Extra Classes	60
25	Make Up Test Circular	61
26	Special/Makeup Test Date Sheet	62
27	Make Up Test	63
28	Internal Evaluation Criteria	64
29	Course Exit Survey	65
30	Student Feedback on Faculty Questionnaire	66
31	Summary of Faculty Feedback	67
32	Appreciation Letter by affiliating university for conduct of classes during COVID	68
33	Faculty as chairman/member (BoS) for curriculum development and assessment	69

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

ACADEMIC CALENDAR

Session: 2017-18

	Odd Semester						
Sr. No.	Description	Period					
1	Session (Old students)	12 th July, 2017- 13 th November, 2017					
2	Session (1 st semester)	17 th July, 2017- 13 th November, 2017					
3	First Mid Semester Examination	September, 2017 (4 th – 6 th)					
4	Second Mid Semester Examination	November, 2017 (1 st - 3 rd)					
5	Preparatory Holidays	November, 2017 (13 th – 19 th)					
6	End Semester Examination	November, 2017 (20 th)					
7	*End Semester Practical Examination	December , 2017 (15 th – 20 th)					
8	Winter Vacations	December , 2017 (21st - 31st)					

	Even Semester						
Sr. No.	Description	Period					
1	Session	02 nd January, 2018 – 21 st April, 2018					
2	First Mid Semester Examination	February, 2018 (26 th - 28 th)					
3	Second Mid Semester Examination	April, 2018 (9 th – 11 th)					
4	Preparatory Holidays	April, 2018 (22 nd -24 th)					
5	End Semester Examination	April, 2018 (25 th) - May 2018 (14 th)					
6	*End Semester Practical Examination	May, 2018 (14 th –19 th)					
7	Institutional Training/ Workshop Training	May 2018 (21 st) - July 2018 (6 th)					
8	Vacations for Faculty	May 2018 (21 st) - July 2018 (6 th)					

Note 1. *Practical examinations for all the branches will start immediate after the end of regular examinations.

2. Number of days falling short of 90 should be compensated by making Saturdays Working by the institutions.

	ACADEMIC CALENDAR FOR EVEN SEMESTER OF T	iab (India) HE SESSIO)N (2017-18)
	EPABX-0181-2207650 Fax: 2205851-52	E-mail: da	viet@davietjal.org
S. No.	Activity	Deptt.	Schedule
-	Registration for Even Semester (ALL)	1	a she sa
11	08 th January, 2018 Commencement of Classes (ALL)		and the second s
	09 th January, 2018		Listh i soio
1	Expert Talk on Cloud Computing	п	17 th January,2018
2	Karaoke Fun Event	EE	17" January,2018
3	Inauguration of American Society of Civil Engg. Student Chapter	CE	19 ^m January,2018
4	FDP on NABL in collaboration with NITTR, Chandigarh	CE	20 th -23 rd January,2018
5	Expert lecture in Chemistry	AS	23rd January, 2018
6	Mock Gate Exam by TechLit Club	ME	23rd January, 2018
7	Technical Quiz- on CN & Database (6th Sem)	CSE	23rd January, 2018
8	Poster Making Competition	EE	24th January, 2018
9	Virtual Quiz	EE	28th January, 2018
10	Aptitude Test	MCA	29th January, 2018
11	Electro Vision	ECE	29th January, 2018
12	Industrial Visit of MBA 1 st Year	MBA	29th January, 2018
13	Aptitude Test (6th Sem)	CSE	2 nd February, 2018
14	Workshop on Devops	IT	6th February, 2018
15	Expert Talk on Advertising	MBA	6th February, 2018
16	Basket Ball Tournament (Inter Departmental)	EE	7th- 9th February, 2018
17	Industry Week	ECE	12th -16th February, 201
18	(Expert Talk & Workshop + Industrial visit) Technical Ouiz on DS & C++ (4 th Sem)	CSE	12th February 2018
10	Ad Show	MBA	13 th February 2018
20	Evnart lacture in Division	AS	16 th Eebruary 2018
20	Expert fecture in Physics	, AS	16 th Cohmany, 2018
21	Comparing a Company Tracking Callson of the Company	CE	16 February, 2018
22	Seminar on Emerging Technologies (4" /6" Sem)	CSE	10 February, 2018
23	Industry Week (Expert Talk & Workshop + Industrial visit)	EE	19" -23" February, 201
24	Paper Presentation	MCA	21st February, 2018
	MST-I		
25	Expert Talk on Export and Import	MBA	2 nd March, 2018
26	Technical Quiz (DBMS)	MCA	2 nd March, 2018
27	Role Play	EE	2 nd March, 2018
28	Industry Week	MBA	5th -9th March, 2018

Industry Week (Expert Talk & Workshop on Emerging Technologies + Industrial visit) Science Day Celebration CSI Event Expert Lecture by Adjunct Faculty Expert Lecture involved GD by Tech Lit Club Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	CSE AS IT ECE ME ME AS MBA	5 th -9 th March, 2018 6 th March, 2018 8 th March, 2018 9 th March, 2018 12 th -15 th March, 2018 13 th March, 2018 16 th March, 2018 16 th March, 2018
CSI Event Expert Lecture by Adjunct Faculty Expert Lecture involved GD by Tech Lit Club Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	AS IT ECE ME ME AS MBA	6 th March, 2018 8 th March, 2018 9 th March, 2018 12 th –15 th March, 2018 13 th March, 2018 16 th March, 2018 16 th March, 2018
CSI Event Expert Lecture by Adjunct Faculty Expert Lecture involved GD by Tech Lit Club Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	IT ECE ME ME AS MBA	8 th March, 2018 9 th March, 2018 12 th -15 th March, 2018 13 th March, 2018 16 th March, 2018 16 th March, 2018
Expert Lecture by Adjunct Faculty Expert Lecture involved GD by Tech Lit Club Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	ECE ME ME AS MBA	9 th March, 2018 12 th -15 th March, 2018 13 th March, 2018 16 th March, 2018 16 th March, 2018
Expert Lecture involved GD by Tech Lit Club Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	ME ME AS MBA	12 th -15 th March, 2018 13 th March, 2018 16 th March, 2018 16 th March, 2018
Quiz by Robotics Club Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	ME AS MBA	13 ^h March, 2018 16 th March, 2018 16 th March, 2018
Expert Talk in Math Role Play Workshop on Stress Management Expert Talk on Renewable Energy	AS MBA	16 th March, 2018 16 th March, 2018
Role Play Workshop on Stress Management Expert Talk on Renewable Energy	MBA	16th March, 2018
Workshop on Stress Management Expert Talk on Renewable Energy	MBA	
Expert Talk on Renewable Energy	MUDA	19th March, 2018
	EE	19th March, 2018
DAVitya		
22 nd -23 rd March, 2018 Mock Placement Drive	EE	26th -27th March, 2018
Industry week	MCA	27th -31st March, 2018
(Expert Talk & Workshop + Industrial visit)	incri	
Aptitude Test (4 th Sem)	CSE	27 ^{en} March, 2018
Biz Quiz Contest	MBA	27 th March, 2018
Expert talk in C. English	AS	28 th March, 2018
Technical Quiz (DS/DCN/OS)	MCA	29th March, 2018
Industry Week (Expert Talk & Workshop + Industrial visit)	IT	2 nd -6 th April, 2018
Tech Quiz by Tech Lit Club	ME	3 rd April, 2018
Poster & Paper Presentation (Environmental & Scientific Issues)	AS	3 rd April, 2018
Debate (Recent trends in electronics & communication)	ECE	4 th April , 2018
Expert Talk on Modern Power System	EE	4 th April, 2018
Workshop on Cyber Security (4th/6th Sem)	CSE	5 th - 6 th April, 2018
Practical Robotics Making Competition by Robotics Club	ME	6 th April, 2018
Alumni/Student Interaction	MCA	6 th April, 2018
Coding event by PRISMA Club	CSE	9 th April, 2018
Annual Function 12 th April, 2018	60.	
Expert Talk/Workshop on Linux	IT	19 th April, 2018
MST-II		30 10 10 10
I	Expert Talk on Renewable Energy DAVitya 22 nd -23 rd March, 2018 Mock Placement Drive Industry week (Expert Talk & Workshop + Industrial visit) Aptitude Test (4 th Sem) Biz Quiz Contest Expert talk in C. English Technical Quiz (DS/DCN/OS) Industry Week (Expert Talk & Workshop + Industrial visit) Tech Quiz by Tech Lit Club Poster & Paper Presentation (Environmental & Scientific Issues) Debate (Recent trends in electronics & communication) Expert Talk on Modern Power System Workshop on Cyber Security (4 th / 6 th Sem) Practical Robotics Making Competition by Robotics Club Alumni/Student Interaction Coding event by PRISMA Club Expert Talk/Workshop on Linux MST-II 19 th -21 ^{tt} April, 2018	Expert Talk on Renewable Energy EE DAVitya 22 nd -23 nd March, 2018 Mock Placement Drive EE Industry week (Expert Talk & Workshop + Industrial visit) MCA Aptitude Test (4 th Sem) CSE Biz Quiz Contest MBA Expert talk in C. English AS Technical Quiz (DS/DCN/OS) MCA Industry Week (Expert Talk & Workshop + Industrial visit) IT Tech Quiz by Tech Lit Club ME Poster & Paper Presentation (Environmental & Scientific Issues) ME Debate (Recent trends in electronics & communication) ECE Expert Talk on Modern Power System EE Workshop on Cyber Security (4 th / 6 th Sem) CSE Practical Robotics Making Competition by Robotics Club ME Alumni/Student Interaction MCA Coding event by PRISMA Club CSE Annual Function 12 th April, 2018 IT

Dr. Sonte Chawla Dean (Academics)

Dr. Manoj Kumar (Principal)

DAV Institute of Engineering and Technology, Jalandhar

Department of Mechanical Engineering

Ref. No. DAVIET/2018-19/ME- 352 21.12.2018

Dated:

Circular

Faculty Name	Subject	Class / Sem	Con	tact Ho	urs/Week	Total/Week	Sig
Dr. Course Di			L	T	P		
Dr. Gauray Dhuria	MP-II	ME-4th	4	1	4	10	
Dr. Canica Cali	Advisory	ME-6th			2	1	
Dr. Sanjeev Saini	NDT (DE)	ME - 6th	4			10	
	Manufacturing Practice (MP)	ECE -A 2 nd Sem	1				
	MP	ECE - B 2nd	1				
	MP	EE 2 nd Sem	1				
	MP	ME 2 nd Sem	1				
	Advisory	ME-4 th			2		
Sh. Pankaj Sadana	HT	ME-6th	4	2	4	14	
	Mentoring & Professional Dev.	ME - 2 nd Sem			4		
Sh. R. S. Johal	EGD	CSE 2nd	1		6	15	
	Dome – II	ME-6 th	4	4			
Dr. D. Priyadarshi	Fluid Machinery	ME-6th	3	2	4	11	
	Minor Project Coordinator	ME -6th			2		
Sh. S. K. Uppal	EGD	CE 2nd	1		6	13	
	SOM-II	ME - 4th	4	2			
Sh. Ankush K ohli	FM	ME - 4th	3	2	4	16	
	EGD	CE 2nd	1		6		
h. Chetan Darshan	AT-II	ME-4 th	4	4		15	
	EGD	CSE 2nd	1		6		
Sh. Aman Maini	NTM (DE)	ME 6 th	4			11	
	EGD	IT 2 nd	1		6		
h. Gurveen Singh	EGD	IT 2 nd	1		6	17	
	TOM-II	ME-4th	4	2	4		

Teaching load assigned to other Departments

Subject	Class	L	T	Deptt.
SNME	ME-6 th	3	2	Applied Sciences

Head of the Department

Copy to : The Principal, for kind information

Dean Academics

Head of Department (AS)

Faculty/Staff members of ME Department

Sh. Chetan Darshan, Department Time Table Incharge

DAV Institute of Engineering & Technology, Jalandhar Department of Computer Science and Engineering

Load of Even Semester (Jan'18 - Apr'18)

Ms. Harpreet Kaur Bajaj

S.No	Class	Strength of Students	Subject	L	Т	Р	Total
1	CSE 4 th Sem	72	Computer Networks-1	3	1(2)	3(2)	11
TOTAL							11

Mr. Parveen Kakkar

S.No	Class	Strength of Students	Subject	L	Т	Р	Total
1	M.Tech- CSE 2nd Sem	8	Adv. Operating Systems	3	1	-	4
2	MCA 2 nd Sem	6	Data Communication	4	1	-	5
3	2 nd Sem Gp1	20	FCPIT	-	-	2(2)	4
TOTAL							13

Dr. Vinay Chopra

S.No	Class	Strength of Students	Subject	L	T	Р	Total
1	M.Tech CSE 2nd Sem	8	Soft Computing	3	1	-	4
2	CSE 6 th Sem	71	Simulation and Modeling	3	-	2(2)	7
3	2 nd Sem Gp3	20	FCPIT	-	-	2(2)	4
TOTAL							15

Ms. Shaveta Kalsi

S.No	Class	Strength of Students	Subject	ject L T		Р	Total
1	M.Tech CSE 2 nd Sem	ech CSE 2 nd Sem 8 Data Warehous Mining		3	1	-	4
2	CSE 6 th Sem	71	RDBMS-II	3	1(2)	3(2)	11
		ΤΟΤΑ	L				15

Mr. Sahul Goyal

S.NO	CLASS	Strength of Students	SUBJECT	L	Т	Р	Total
1	CSE 4th Sem	72	Operating Systems	3	1(2)	2(2)	9
2	MCA2		EWA	4	1	1(2)	7
		TOTAL	L				16

S.NO	CLASS	CLASS Strength of SUBJECT Students		L	Т	Р	Total
1	CSE 6th Sem	71	Ethical Hacking	3	1(2)	3(2)	11
2	M Tech 2 nd Sem	8	Research Methodology	3	1	-	4
3	CSE 6th Sem	36	Computer Networks-I	-	-	1(2)	2
5		TOTA	L.				17

Ms. Sonali Talwar

W15. SOIL	III Laiwai							
S.NO	CLASS	Strength of Students	SUBJECT	L	Т	Р	Total	
1	CSE 6th Sem	71	Software Engineering		-	2(2)	7	
2	CSE 6th Sem	71	HRM	3	1(2)	-	5	
3	CSE 6th Sem	35	RDBMS-II	-	-	1(2)	2	
4	CSE 6 th Sem	35	Ethical Hacking	-	-	1(2)	2	
5	ECE 2A & 2B		DBMS	2	-	-	2	
	TOTAL							

Ms. Amanjot Kaur

S.NO	CLASS	Strength of Students	SUBJECT	L	L T		Total
1	CSE 2nd Sem Gp1	40	FCPIT	3	-	2(2)	7
2	CSE 4th Sem	72	System Programming	3	1(2)	2(2)	9
3	ECE 2A & 2B		C+++	2	-	-	2
		тот	AT				18

8

Time Table In-charge

Harpreel Kour Bajaj Asstt. Prof & HpOD (CSE)

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR TIME TABLE FOR IT DEPARTMENT w.e.f JAN 2018 TO JUNE 2018

ESIER :	Even		Date of Is	ssue:	
DAY	TIME	IT-	4th SEM	IT- 6th S	SEM
M	9:00	SP	(RV) R-8	HRM (JD)R-10
<u> </u>	10:00	DS	(AS) R-8	CC(RK)	R-10
N	11:00	MP	(RW) R-8	SE (PS)	NP(RJ) R-10
D	12:00		BREAK	LAB-5	HRM (JD) R-10
A	1:00	MP(BJ) Jab	OS(RJ) R-9	BREA	K
Ŷ	2:00		DS(AS)R-8	NP(RJ)	R-10
	3 00	CN-L(RV)	MOOC/Virtual LAB/OS (RK)	EST(Aptitude)	(DD) R-10
	4 00	Lab-6	Lab-4	WT(AB)	R-10
T	9.00	SP	(RV) R-8	NP(RJ)	R-10
U	10 00	SP(RV) R-8	MP(RW) R-9	SE (PS)	R-10
E	11:00	05	S(RJ) R-8	CC(RK)	R-10
5	12:00	MP(RW) R-8	CN-I(PS) R-9	HRM (JD)) R-10
D	1 00		BREAK	BREA	AK
А	2.00	CN	-I (PS) R-8	ISRM(RV) R-10
Y	3 00			WT(AB)	SE(PS) R-10
	4.00			LAB-6	CC(RK) R-10
Ŵ	9.00	CN	(PS) R-8	NP(RJ)	WT(AB)
E	10.00	DS(AS)R-8	SP(RV) R-10	LAB-4	LAB-5
D	11:00	CN (PS)R-8	CN-I(DK)	WT(AB)	R-10
N	12:00	OS(RJ) R-8	LAB-6	EST(Aptitude) (DD)R-10	
E	1:00		BREAK	BREAK	
S	2.00			SE (PS) R-10
D	3:00	CN-I(PS)	SP (RV)	ISRM(R)	V) R-10
A	4:00	LAB-6	LAB-5	HRM (JD) R-10	
T	9.00	03	S(RJ) R-8	WT(AB) R-10
H	10.00	Ch	N(PS) R-8	EST(Aptitude	e) (DD) R-10
U	11 00	SP (RV)	CN-I(DK)	NP(RJ	I) R-10
R	12:00	LAB-5	LAB-6	SE (PS	S) R-10
S	1.00		BREAK	BR	EAK
D	2.00	MF	P(RW) R-8	NP(RJ) R-	Virtual LAB/WT(A
A	3.00	DS	6 (AS) R-8	CC(RK) R-10	(LAB-4)
Y	4:00				
E	9.00	SF	P(RV) R-8	Virtual LAB/WT(AB)	SE(PS)
Ð	10.00	DS	6 (AS) R-8	LAB-4	LAB-5
1	11:00	0	S(RJ) R-8	HRM (JD)R-10
1	12:00	MF	P(RW) R-8	CC(RI	K) R-10
Ú.	12.00		BREAK	BR	REAK
A	1 00			ISRM(F	RV) R-10
Y	2:00		MP(BJ) lab	SE(PS) R-10	NP(RJ)
	3.00	LAB-2			

	Maan IRV=Dr. Raieev Vashisht	AB=Ms. Avani Bhatia	RK= Mr. Rajesh Kochher
DK = Dr. Diriesh Kumar (HCPS - DI. PS	swinder Dhillon RW= Mr. Rajesh Wadhwa	BJ=Ms. Bindia Jain	AS= Mr. Amit Sharma
RJ= Ms. Rajindervir Kaur JD- Mil. Jas	Swinder Dritton (Kr)		
DD=Dikshant Dawar			

PRINCIPAL

DEPARTMENT HE

9/2/18 TIME TABLE INCHARGE

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR DEPARTMENT OF CIVIL ENGINEERING

Tir	ne "T	able Ian	A == 2010 (E	DEPAR	TMENT OF C	IVIL ENGINEI	ERING				
7	ne - I	able Jan-	Apr.2019 (Eve	n SEMI.)			1		w.e.i. //01/201/		
Day	No.	Time	CI	E-4	0	CE-6	(CE-8	M.TECH-II		
	1	9:00-10:00	SA-I (F	23) SC	NMCE	(R-24)NK	TE-II	(R31)MB	WQM(R30) T- MKK		
	2	10:00-11:00	IE-I(R2	3)MSB	PP(I	R-24)SJ	DM	(R31)SN	EE(R30) -GK		
X	3	11:00-12:00	FM-II (R	23) MKK	EEE (R24) SC	DSS-II(R31)SG		ATE(R30) MSB		
Q	4	12:00-1:00	DCS-I(I	R23)GK	FE(R	-24)SN	IE-II	(R31)SJ	ERM(R-30)MB		
MO	5	1:00-2:00		A State	And Annual States	BREAK		the fail of the			
-	6	2:00-3:00	DCS-I(R-29)GK	SA-I(R23)SC	EE LAB (MKK)	FE(R24)SN	TE-II(R30)MB	IE-II(R31)SJ ·			
	7	3:00-4:00	IE-1 (R31)MSB	SA-I(R23)SC		PP(R-24)SJ	DSS-II(R30)SG	TE-II (R-33)MB			
	8	4:00-5:00	142								
	1	9:00-10:00	CMWM	(R23) SJ	DCS-II	(R24)GK	PSC(R31)SG	ATE(R30) MSB		
	2	10:00-11:00	IE-I(R2	3)MSB	EE-II (F	24) MKK	DM(R31)SN	ERM(R-30)MB		
X	3	11:00-12:00	SA-I (R	(23) SC	PP(F	R-24)SJ	TE-II(R31)MB	WQM(R30) MKK		
SDA	4	12:00-1:00	GEOMATIC	CS(R23)MB	FE(R	-24)SN	H&D(I	R31)MSB	IND.STR. (R30) SG		
UE	5	1:00-2:00	And And And			BREAK					
L	6	2:00-3:00	FM-II (R23) MKK	SALAR (SC)	NMCE(R-24)NK		H&D(R-29)MSB	DSS-II(R-31)SG	EE(R30) T-GK		
	7	3:00-4:00	CMWM (R23)SJ	SA LAB (SC)	EE-II(R-24)MKK	CASD LAB (MB)	PSC(R31) SG				
	. 8	4:00-5:00			PP(R-24)SJ			1			
	1	9:00-10:00	CMWN	A(23)SJ	DCS-II	(R24)GK	H&D(R31)MSB		H&D(R31)MSB		ERM(R-30)MB
	2	10:00-11:00	GEOMATIC	CS(R23)MB	EEE (I	R24) SC	DSS-II	(R31)SG	WQM(R30) MKK		
AY	3	11:00-12:00	DCS-I(I	R23)GK	FE(R	-24)SN	IE-II(R31)SJ	ATE(R30) T- MSB		
ESD	4	12:00-1:00	IE-I(R2	3)MSB	NMCE(R-24)NK	TE-II(R31)MB		TE-II(R31)MB		IND.STR. (R30) SG
DN	5	1:00-2:00	Sterrer Berlin	1][[]] 料用世		BREAK					
WE	6	2:00-3:00	DOCLAD (CAL)	GeoMat (R23)MB	PP(R	-24)SJ		H&D(R-31)MSB	EE (R30) GK		
	7	3:00-4:00	DCS LAB (SN)	IE-1 (R23)MSB	EEE (R24) SC	DCS-II(R31)GK	PROJECT				
	8	4:00-5:00	GeoMat (R-23)MB		EEE (R24) SC	PP(R-31)SJ	PRO	JECT			
	1	9:00-10:00	DCS-I(I	R23)GK	EE-II (R	24) MKK	PSC(R	31)SG	ATE(R30) MSB		
	2	10:00-11:00	DCS-I(F	R23)GK	FE(R-	-24)SN	IE-II(R31)SJ		ERM T (R30) MB		
IV	3	11:00-12:00	SA-I (R	23) SC	NMCE(R-24)NK	DSS-II(R31)SG			
SDA	4	12:00-1:00	FM-II (R	23) MKK	DCS-II(R24)GK	PROJECT		IND.STR. (R30) SG		
UR	5	1:00-2:00	ADD - CREATE			BREAK		A State State	the second		
TH	6	2:00-3:00	SA-I(R23)SC	FM-II (R30) MKK	DCS-II(R24)GK	EEE (R-31) SC	IE-II(R31)SJ	PSC(R-29)SG			
	7	3:00-4:00		DCCLAR (SC)	FE(R24)SN		PRO	JECT			
	8	4:00-5:00	· · · · · · · · · · · · · · · · · · ·	DCS LAB (SG)	PP(R-24)SJ	EE LAB (IVISB)	PRO	JECT			
	1	9:00-10:00	GEOMATIC	CS(R23)MB	EE-II (R	24) MKK	PSC(R	31)SG	EE(R-30)GK		
	2	10:00-11:00	CMWM	(R23)SJ	DCS-II(R24)GK	H&D(R	31)MSB	IND.STR. (R30) T- SG		
	3	11:00-12:00	FM-II (R	23) MKK	EEE (F	(24) SC	PRO	JECT			
AA	4	12:00-1:00	SA-I(R23)SC	DCS-I(R-29)GK	NMCE(R-24)NK	DSS-II(R31)SG	WQM(R30) MKK		
RU	5	1:00-2:00				BREAK					
H	6	2:00-3:00	SALAB (SC)	CMWM (R23)SJ		EE-II(R-24)MKK	DM(R	31)SN			
	7	3:00-4:00	SA LAB (SC)		CASD LAB (GK)	NMCE(R-24)NK	DM(R	31)SN			
1	8	4:00-5:00				EEE (R24) SC					
	Fact SN SG MSE MKI NK	ılty: K	Sanjeev Naval Sanjay Goel M S Bedi MK Kaushik Nitin Kalra	Ċ.,?	SC MB GK SJ	Sonia Chutani Manish Bhutani Gobind Khurana Sudhir K Jala		Lab Tech.: VP	Vinay Prashar Harvinder Kumar		
	Bept	t. Time Table :	Incharge Ti	e Talle Incharge	Lever Alla	HODIER			Artificipal		

Syllabus

Course contents as per IKG PTU curriculum:

Detailed Contents	Contact
TL.:4 T	hours
Unit-1 Statistics and Probability: Introduction to Statistics – Origin of Statistics, Features of Statistics, Scope of Statistics, Functions of Statics, Uses and importance of Statistics, Limitation of Statistics, Distrust of Statistics Collection of Data: Introduction to Collection of Data, Primary and Secondary Data, Methods of Collecting Primary Data, Methods of Secondary Data, Statistical Error Rounding off Data (Approximation) (CO1)	12hours
Statistical Errors, Rounding on Data (Approximation). [CO1]	
Classification of Data Frequency Distribution: Introduction Classification of Data, Objectives of Classification, Methods of Classification, Ways to Classify Numerical Data or Raw Data. Tabular, Diagrammatic and Graphic Presentation of Data: Introduction to Tabular Presentation of Data, Objectives of Tabulation, Components of a Statistical Table, General Rules for the Construction of a Table, Types of Tables, Introduction to Diagrammatic Presentation of Data, Advantage and Disadvantage of Diagrammatic Presentation, Types of Diagrams, Introduction to Graphic Presentation of Data, Advantage of Graphic Presentation, Types of Graphs. [CO2]	12hours
<u>Unit –III</u> Measures of Central tendency: Introduction to Central Tendency, Purpose and Functions of Average, Characteristics of a Good Average, Types of Averages, Meaning of Arithmetic Mean, Calculation of Arithmetic Mean, Merit and Demerits of Arithmetic Mean, Meaning of Median, Calculation of Median, Merit and Demerits of Median, Meaning of Mode, Calculation of Mode, Merit and Demerits of Mode, Harmonic Mean- Properties, Merit and Demerits. [CO3]	12 hours
Unit-IV Measures of Dispersion: Meaning of Dispersion, Objectives of Dispersion, Properties of a good Measure of Dispersion, Methods of Measuring Dispersion, Range Introduction, Calculation of Range , Merit and Demerits of Range, Mean Deviation, Calculation of Mean Deviation , Merit and Demerits of Mean Deviation, Standard Deviation Meaning, Calculation of Standard Deviation , Merit and Demerits of Standard Deviation, Coefficient of Variation, Calculation of Coefficient Variance, Merit and Demerits of Coefficient of Variation. [CO4] [CO5]	12 hours

Prerequisite: Students must have the basic knowledge of mathematic terms.

CAY: 2021-2022

Textbooks:

- 1. Statistics and Data Analysis, A.Abebe, J. Daniels, J.W.Mckean, December 2000.
- 2. Statistics, Tmt. S. EzhilarasiThiru, 2005, Government of Tamilnadu.
- 3. Introduction to Statistics, David M. Lane.
- 4. Weiss, N.A., Introductory Statistics. Addison Wesley, 1999.
- 5. Clarke, G.M. & Cooke, D., A Basic course in Statistics. Arnold, 1998.

Reference Books:

1. Banfield J.(1999), R-web: Web-based Statistical Analysis, Journal of Statistical Software.

2. Bhattacharya,G.K. and Johnson, R.A.(1997), Statistical Concepts and Methods, New York, John Wiley & Sons.

E-Books/ Online learning material:

1. <u>http://onlinestatbook.com/Online_Statistics_Education.pdf</u>

- 2. https://textbookcorp.tn.gov.in/Books/12/Std12-Stat-EM.pdf
- 3. https://3lihandam69.files.wordpress.com/2015/10/introductorystatistics.pdf

Course Objectives

- 1. Understand the basic concepts of mathematics and its usage
- 2. Introduce students to the basic word processing, Spreadsheet and Presentation related softwares and skills.
- 3. Learn basic internet applications including email, online secure transactions and advanced computing related concepts.

Course Outcomes: After studying this course, students will be able to:

CO#	Course Outcome
CO1	Highlight the need of studying & analyzing Statistics.
CO2	Identify visualization tools for representing data.
CO3	Describe various statistical formulas.
CO4	Compute various statistical measures.
CO5	Compare result of different statistical measures.

CAY: 2021-2022

Mapping of syllabus with Course Outcomes

Syllabus/ Contents/ unit	CO1	CO2	CO3	CO4	CO5
Unit 1: Introduction to Statistics	3				
Unit 1: Collection of Data	3				
Unit 2: Classification of Data & Frequency Distribution	1	3			
Unit 2: Tabular, Diagrammatic and Graphic Presentation of Data	1	3			
Unit 3: Measures of Central tendency	1	1	3		
Unit 4: Measures of Dispersion	1	1	1	3	3

Mapping may be done using numbers 1, 2 & 3

1- Slight(Low)2- Moderate (medium)3- Substantiate (High)

Mapping of COs with PO(s)

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	1	1						1
CO2	3	2	3	1						1
CO3	3	3	1	1						1
CO4	3	2	3	1						1
CO5	3	3	1	1						1

1- Slight(Low)

2- Moderate (medium)

3- Substantiate (High)

CAY: 2021-2022

Mapping of COs with PSO(s)

PSO's	PSO1	PSO2	PSO3
CO's			
CO1	1		
CO2	2	1	
CO3	2	1	
CO4	1		
CO5	1		

1- Slight(Low)

2- Moderate (Medium)

3- Substantiate (High)

CAY: 2021-2022

COURSE INFORMATION SHEET

PROGRAMME: BCA	
COURSE: Fundamental of Statistics (FOS)	SEMESTER: 1 st CREDITS: 4
COURSE CODE: UGCA1907	COURSE TYPE: Compulsory
COURSE AREA/ DOMAIN: Computer Application	CONTACT HOURS: 48 L T P
	3 1 4
Internalmax.marks:40	Theory/Practical: Theory
Externalmax.marks:60	Duration ofEnd SemesterExam: 3hrs
Totalmarks:100	Electivestatus:core/elective:Core
CORRESPONDING LAB CODE: UGCA1911	LAB COURSE NAME: FOS Lab

COURSE PLAN

Unit No.	Detailedcontents	Contacthours
Unit-I	Statistics and Probability: Introduction to Statistics – Origin of Statistics, Features of Statistics, Scope of Statistics, Functions of Statist, Uses and importance of Statistics, Limitation of Statistics, Distrust of Statistics Collection of Data: Introduction to Collection of Data, Primary and Secondary Data, Methods of Collecting Primary Data, Methods of Secondary Data, Statistical Errors, Rounding off Data (Approximation). [CO1]	12 hours
Unit-II	Classification of Data Frequency Distribution: Introduction Classification of Data, Objectives of Classification, Methods of Classification, Ways to Classify Numerical Data or Raw Data. Tabular, Diagrammatic and Graphic Presentation of Data: Introduction to Tabular Presentation of Data, Objectives of Tabulation, Components of a Statistical Table, General Rules for the Construction of a Table, Types of Tables, Introduction to Diagrammatic Presentation of Data, Advantage and Disadvantage of Diagrammatic Presentation, Types of Diagrams, Introduction to Graphic Presentation of Data, Advantage and Disadvantage of Graphic Presentation, Types of Graphs. [CO2]	12 hours
Unit -III	Measures of Central tendency: Introduction to Central Tendency, Purpose and Functions of Average, Characteristics of a Good Average, Types of Averages, Meaning of Arithmetic Mean, Calculation of Arithmetic Mean, Merit and Demerits of Arithmetic Mean, Meaning of Median, Calculation of Median, Merit and Demerits of Median, Meaning of Mode, Calculation of Mode, Merit and Demerits of Mode, Harmonic Mean- Properties, Merit and Demerits. [CO3]	12 hours
<u>Unit-IV</u>	Measures of Dispersion: Meaning of Dispersion, Objectives of Dispersion, Properties of a good Measure of Dispersion, Methods of Measuring Dispersion, Range Introduction, Calculation of Range, Merit and Demerits of Range, Mean Deviation, Calculation of Mean Deviation, Merit and Demerits of Mean Deviation, Standard Deviation Meaning, Calculation of Standard Deviation, Merit and Demerits of Standard Deviation, Coefficient of Variation, Calculation of Coefficient Variance, Merit and Demerits of Coefficient of Neuropean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient of Variation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Opean Deviation (Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits of Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits of Coefficient (Coefficient Variance), Merit and Demerits (Coefficient Variance), Merit	12 hours

CAY: 2021-2022

Lecture Delivery Plan

-

Subject:Fundamental of Statistics

Faculty: Mr. Ashwani Kumar

Subject Code:UGCA1907

Branch/Semester: BCA/2nd

Sr N.	Name of Topics to be	I/T	Date	Date	Teaching	COs	Self
	Covered/Planned	L/ 1	(Planned)	(Actual)	Aid Used	Mapped	Remarks
1.	Introduction and Meaning of Statistics, Origin & various definitions of Statistics	L1	21Feb, 2022	21Feb, 2022	Chalk & Board	CO1	
2.	Various forms of Statistics: Descriptive and Inferential Statistics (&singular, plural) and examples	L2	22Feb, 2022	23Feb, 2022	Chalk & Board	CO1	
3.	Various features of Statistics	L3	23Feb,202 2	24Feb, 2022	Chalk & Board	CO1	
4.	Importance and Functions of Statistics	L4	25Feb, 2022	25Feb, 2022	Chalk & Board	CO1	
5.	Scopes of Statistics, Limitations of Statistics	L5	28Feb, 2022	28Feb, 2022	Chalk & Board	CO1	
6.	Distrust on Statistics causes and treatment	L6	02 Mar, 2022	02 Mar, 2022	Chalk & Board	CO1	
7.	Statistics is an art or Science?	L7	03 Mar, 2022	03 Mar, 2022	Chalk & Board	CO1	
8.	Necessarily of Empirical and Quantitative analysis of data and types of data	L8	04 Mar, 2022	04 Mar, 2022	Chalk & Board	CO1	
9.	Sources of Primary and Secondary data and merits and demerits	L9	07 Mar, 2022	14 Mar, 2022	Chalk & Board	CO1	
10.	Methods of collection of Primary data with merits and demerits	L10	09 Mar, 2022	17 Mar, 2022	Chalk & Board	CO1	
11.	Methods of collection of Secondary data with merits and demerits	L11	10 Mar, 2022	10 Mar, 2022	Chalk & Board	CO1	Timetable revised
12.	Questionnaire versus schedule and Drafting Questionnaire	L12	11 Mar, 2022	11 Mar, 2022	Chalk & Board	CO1	

13.features: Inroduction & objective1.132.022 20222022 2022Board BoardCO214.Modes of classification and statistical series1.1416 Mar, 202216 Mar, 2022Chalk & BoardCO215.Frequency distributions-1 requency distributions-21.1517 Mar, 202217 Mar, 2022Chalk & BoardCO216.Frequency distributions-2 resentation of data: Tabulation, classification versus Tabulation, classification versus Tabulation tables1.1723 Mar, 202223 Mar, 2022Chalk & BoardCO218.Features of good table, components, rules of constructions of various types of tables1.1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and metris/demerits1.20 28 Mar, 202225 Mar, 202225 Mar, 2022Chalk & BoardCO220.Sigrammatic presentation: Pictograms and Cartograms1.20 28 Mar, 202228 Mar, 202228 Mar, 2022Chalk & BoardCO221.Histogram, frequency polygon and frequency curve1.21 30 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Hotiograms and Cartograms1.22 202230 Mar, 20222022Chalk & BoardCO223.Diagrammatic vs Graphical presentations1.2330 Mar, 20222022 <th></th> <th>Classification of data and its</th> <th></th> <th>14 Mar</th> <th>14 Mar</th> <th>Chalk &</th> <th></th> <th></th>		Classification of data and its		14 Mar	14 Mar	Chalk &		
objectiveIntermIntermIntermInterm14.Modes of classification and statistical series1.1416 Mar, 20221022BoardCO215.Frequency distributions-11.1517 Mar, 202217 Mar, 2022Chalk & BoardCO216.Frequency distributions-21.1621 Mar, 202221 Mar, 2022Chalk & BoardCO217.Presentation of data: Tabulation, its objectives and limitations, Classification versus Tabulation table, components, rules of constructions of various types of tables1.1824 Mar, 202224 Mar, 2022Chalk & BoardCO218.Hole, components, rules of constructions of various types of tables1.1825 Mar, 202225 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and presentation. Bar charts, various types and merits/demerits1.2028 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: reciperams and Cartograms1.2028 Mar, 202220 Mar, 2022Chalk & BoardCO221.Histogram, frequency polygon and frequency curve distributions and ogives1.2130 Mar, 202220 Mar, 2022Chalk & BoardCO222.Comulative frequency distributions and ogives1.2330 Mar, 202220 Mar, 2022Chalk & BoardCO223.Diagrammatic presentation: classina frequency curve distributions and ogives1.	13.	features: Introduction &	L13	2022	2022	Board	CO2	
14.Modes of classification and statistical series1.1416 Mar, 202216 Mar, 2022Chalk & BoardCO215.Frequency distributions-11.151.7 Mar, 202221 Mar, 2022Chalk & BoardCO216.Frequency distributions-21.1621 Mar, 202221 Mar, 2022Chalk & BoardCO217.Frequency distributions, classification versus Tabulation, Classification versus Tabulation, classification versus Tabulation1.1723 Mar, 20222022Chalk & BoardCO218.Features of good tables1.1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of timitations, Bar charts, various types and merits/demerits1.1825 Mar, 202225 Mar, 2022Chalk & BoardCO220.Square, circular diagrams and Pic tograms and Cartograms1.2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Histogram, frequency polygon and frequency curve distributions and ogives1.2130 Mar, 202228 Mar, 2022Chalk & BoardCO222.Caraplical presentation: Histogram, frequency polygon and frequency curve1.2130 Mar, 20222022BoardCO223.Diagrammatic vs Graphical presentations1.2330 Mar, 20222022Chalk & BoardCO224.Advantages and Disadvantages of Graphs1.2330 Mar, 20222022Chalk & BoardCO2		objective				20000		
statistical series2022022BoardCO215.Frequency distributions-1L1517 Mar, 2022Chalk & BoardCO216.Frequency distributions-2L1621 Mar, 20222022BoardCO217.Presentation of data: Tabulation, to objectives and limitations, Classification versus Tabulation ablesL1723 Mar, 2022Chalk & BoardCO218.Features of good table; components, rules of constructions of various types of tablesL1824 Mar, 20222022BoardCO219.Diagrammatic presentation of the data: 'Libity, qualities and limitations, tabulation versus types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation, Bar charts, various types and merits/demeritsL1928 Mar, 20222022Chalk & BoardCO220.Prectarts, pie charts evaluation, Pictograms and Grappenstation:L2028 Mar, 20222022Chalk & BoardCO221.Graphical presentation:L2028 Mar, 20222022Chalk & BoardCO222.Cmark frequency polygon and frequency ourveL2130 Mar, 20222022BoardCO223.Diagrammatic vs Graphical presentation:L2220242022BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 2022Chalk & BoardCO224.Mathematical averages	14.	Modes of classification and	L14	16 Mar,	16 Mar,	Chalk &	CO2	
15.Frequency distributions-1L1517 Mar, 202217 Mar, 2022Chaik & CO216.Frequency distributions-2L1621 Mar, 20222022BoardCO217.Presentation of data: Tabulation, its objectives and limitations, Classification versus TabulationL1723 Mar, 20222022BoardCO218.Features of good table, components, rules of constructions of various types of tablesL1824 Mar, 20222022BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chaik & BoardCO220Diagrammatic presentation: square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chaik & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curve distributions and ogivesL2130 Mar, 20222022BoardCO222.Cumulative frequency distributions and ogivesL2231 Mar, 2022Chaik & BoardCO223.Diagrammatic vs Graphical presentation: distributions and ogivesL2304Apr, 2022Chaik & BoardCO223.Mathematical averages definitions, meaning of central tredency of dataL2606Apr, 2022Chaik & BoardCO224.Mathematical averages definitions, meaning of central tendency of dataL2608Apr, 06Apr, 2022Chaik & Board <t< th=""><th></th><th>statistical series</th><th></th><th>2022</th><th>2022</th><th>Board</th><th></th><th></th></t<>		statistical series		2022	2022	Board		
16.Frequency distributions-2 Presentation of data: Tabulation, its objectives and limitations, Classification versus Tabulation (Lassification versus Tabulation) tablesL1621 Mar, 2022Chalk & BoardCO217.Presentation of data: Tabulation, its objectives and limitations, Classification versus TabulationL1723 Mar, 202223 Mar, 2022Chalk & BoardCO218.Features of good tablesL1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and imitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pic cograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency pulycon and frequency curveL2130 Mar, 20222022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 20222022Chalk & BoardCO223.Diagrammatic vs Graphical presentation: Cumulative frequency distributions and ogivesL2304Apr, 202204Apr, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages	15.	Frequency distributions-1	L15	17 Mar,	17 Mar,	Chalk &	CO2	
16.Prequency distributions-2L1621 Mar, 21 Mar, 2022BoardCO2Presentation of data: Tabulation, its objectives and limitations, Classification versus TabulationL1723 Mar, 20222022BoardCO218.Features of good table, components, rules of tablesL1824 Mar, 20222022BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types of pictore, rules of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation: Square, circular diagrams and Pic charts, pic charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Histogram, frequency polygon and frequency curve distributions and ogivesL2130 Mar, 20222022BoardCO223.Diagrammatic resentation: cumulative frequency distributions and ogivesL2130 Mar, 2022Calk & BoardCO223.Diagrammatic of craphical presentation: distributions and ogivesL2304Apr, 20222022BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO224.Mathematical averages definitions, meaning of central tendency of dataL2607Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency		Eroquonov distributions 2		2022 21 Mar	2022 21 Mor	Challe &		
Image: Note of the section of data: Tabulation, its objectives and limitations, Classification versus TabulationL1723 Mar, 202220022DotateChalk & BoardCO218.Features of good table, components, rules of constructions of various types of tablesL1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation. Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Hitsogram, frequency polygon and frequency curve distributions and ogivesL2130 Mar, 20222022BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 20222022BoardCO223.Diagrammatic vs Graphical presentation: Cumulative frequency distributions and ogivesL2304Apr, 20222022BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202204Apr, 2022BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022BoardCO225.Mathematical averagesL2507Apr, 2022BoardCO226.Simple arithmetic meanL2608Apr, 2022Chalk & CO3CO2	16.	Trequency distributions-2	L16	21 Mar, 2022	21 Mar, 2022	Board	CO2	
17.17.18. objectives and limitations, Classification versus TabulationL1723 Mar, 202223 Mar, 2022Chalk & BoardCO218.Features of good table, components, rules of constructions of various types of tablesL1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus 		Presentation of data: Tabulation		2022	2022	Doard		
11.112.120222022BoardCO218.Features of good table, components, rules of constructions of various types of tablesL1824 Mar, 20222022BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 20222022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pic tograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 20222022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2608Apr, 202208Apr, 2022Chalk & CO3CO3	17.	its objectives and limitations	L17	23 Mar,	23 Mar,	Chalk &	CO2	
Features of good table, components, rules of constructions of various types of tablesL1824 Mar, 202224 Mar, 2022Chalk & BoardCO218.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 20222022Chalk & BoardCO222.Graphical presentation: Unulative frequency distributions and ogivesL2231 Mar, 20222022Chalk & BoardCO223.Diagrammatic v Graphical presentationsL2304Apr, 20222022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO224.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 2022Chalk & BoardCO225.Simple arithmetic meanL2608Apr, 08Apr,Chalk & BoardCO3		Classification versus Tabulation	217	2022	2022	Board	002	
18.table, components, rules of constructions of various types of tablesL1824 Mar, 202224 Mar, 2022Chalk & BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pietograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: (cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO224.Mathematical averages definitions, meaning of central tendercy of dataL2608Apr, 202207Apr, 2022Chalk & BoardCO3		Features of good						
18.constructions of various types of tablesL1820222022BoardCO219.Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pic tograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO223.Graphical presentation: Cumulative frequency distributions and ogivesL2331 Mar, 202231 Mar, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202204Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2608 Apr, 202207 Apr, 2022Chalk & BoardCO226.Simple arithmetic meanL2608 Apr, 202208 Apr, 2022Chalk & CO3CO3	10	table, components, rules of	T 10	24 Mar,	24 Mar,	Chalk &	COA	
tablesImage: constraint of the data:Image: constraint of the d	18.	constructions of various types of	L18	2022	2022	Board	CO2	
Diagrammatic presentation of the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Umulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2608Apr, 202207Apr, 2022Chalk & BoardCO2		tables						
19.the data: Utility, qualities and limitations, tabulation versus presentation, Bar charts, various types and merits/demerits11925 Mar, 202225 Mar, 2022Chalk & BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and Cartograms12028 Mar, 202228 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curve12130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogives12231 Mar, 202231 Mar, 2022CO2CO223.Diagrammatic vs Graphical presentations12304Apr, 20222022CO2CO224.Advantages and Disadvantages of Graphs12406Apr, 202206Apr, 2022CO2CO225.Mathematical averages definitions, meaning of central tendency of data12507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic mean12608Apr, 202208Apr, 2022Chalk & Chalk & BoardCO3		Diagrammatic presentation of						
19.limitations, tabulation versus presentation, Bar charts, various types and merits/demeritsL1920 (100) 202220 (20) 2022BoardCO220.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 202228 Mar, 2022CO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2607Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3		the data: Utility, qualities and		25 Mar	25 Mar	Chalk &		
presentation, Bar charts, various types and merits/demeritsDoub 2022BoundBound20.Diagrammatic presentation: Square, circular diagrams and Pie charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & 2022CO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr, 08Apr,Chalk & CO3CO3	19.	limitations, tabulation versus	L19	25 Wiar, 2022	25 Wiar, 2022	Board	CO2	
types and merits/demeritsImage: constraint of the section of the sectio		presentation, Bar charts, various		2022	2022	Doard		
Diagrammatic presentation: Square, circular diagrams and Pic charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2130 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022CO2CO225.Mathematical averages definitions, meaning of central tendency of dataL2608Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3		types and merits/demerits						
20.Square, circular diagrams and Pic charts, pie charts evaluation, Pictograms and CartogramsL2028 Mar, 202228 Mar, 2022Chalk & BoardCO221.Graphical presentation: Histogram, frequency curveL2130 Mar, 202230 Mar, 2022CO2CO222.Graphical presentation: Cumulative frequency distributions and ogivesL2130 Mar, 202230 Mar, 2022CO2CO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022CAlk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022CO2CO225.Mathematical averages definitions, meaning of central tendency of dataL2607Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr, 08Apr,Chalk & CO3CO3		Diagrammatic presentation:						
Pie charts, pie charts evaluation, Pictograms and Cartograms20222022BoardBoard21.Graphical presentation: Histogram, frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022CO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022CO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022CO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3	20.	Square, circular diagrams and	L20	28 Mar,	28 Mar,	Chalk &	CO2	
Prectograms and CartogramsImage: Constraint of the section of the secti		Pie charts, pie charts evaluation,		2022	2022	Board		
21.Graphical presentation: Histogram, frequency polygon and frequency curveL2130 Mar, 202230 Mar, 2022Chalk & BoardCO222.Graphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3		Pictograms and Cartograms						
21.Histogram, frequency polygon and frequency curveL21 20222022BoardCO2and frequency curveGraphical presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3	01	Graphical presentation:	T 01	30 Mar,	30 Mar,	Chalk &	CO 2	
and frequency curveindex	21.	Histogram, frequency polygon	L21	2022	2022	Board	C02	
22.Chapmean presentation: Cumulative frequency distributions and ogivesL2231 Mar, 202231 Mar, 2022Chalk & BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr,Chalk & CO3CO3		and frequency curve						
22.Cumulative frequency distributions and ogivesL2220222022BoardCO223.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022CO2CO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022CO2CO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022CO3CO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr,Chalk & Chalk & CO3CO3	22	Graphical presentation:	1 22	31 Mar,	31 Mar,	Chalk &	CO2	
23.Diagrammatic vs Graphical presentationsL2304Apr, 202204Apr, 2022Chalk & BoardCO224.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022CO2CO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022CO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr, 08Apr,Chalk & CO3CO3	22.	distributions and ogives	L22	2022	2022	Board	02	
23.Diagrammate visionaplicationsL23Orapit, 2022Orapit, 2022Chark & CO224.Advantages and Disadvantages of GraphsL2406Apr, 2022BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & Board26.Simple arithmetic meanL2608Apr, 08Apr, Chalk & CO3CO3		Diagrammatic vs Graphical		044 nr	044 nr	Chalk &		
24.Advantages and Disadvantages of GraphsL2406Apr, 202206Apr, 2022Chalk & BoardCO225.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr, 08Apr,08Apr,Chalk & CO3CO3	23.	presentations	L23	2022	2022	Board	CO2	
24.Advantages and DisadvantagesL24SourphySourphySourphySourphyChain CCof GraphsMathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chaik & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chaik & CO3CO3		Advantages and Disadvantages		06Apr.	06Apr.	Chalk &		
25.Mathematical averages definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3	24.	of Graphs	L24	2022	2022	Board	CO2	
25.definitions, meaning of central tendency of dataL2507Apr, 202207Apr, 2022Chalk & BoardCO326.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3CO3		Mathematical averages						
tendency of data20222022Board26.Simple arithmetic meanL2608Apr,08Apr,Chalk & CO3	25.	definitions, meaning of central	L25	07Apr,	07Apr,	Chalk &	CO3	
26.Simple arithmetic meanL2608Apr,08Apr,Chalk &CO3		tendency of data		2022	2022	Board		
	26.	Simple arithmetic mean	L26	08Apr,	08Apr,	Chalk &	CO3	

		l –				1	l
	(ungrouped data, grouped data		2022	2022	Board		
27	Merits and demerits, properties	T 27	11Apr,	11Apr,	Chalk &	CO3	
27.	of mean		2022	2022	Board	005	
•	deviation and step deviation	T 3 0	13Apr,	13Apr,	Chalk &	002	
28.	methods	L28	2022	2022	Board	CO3	
	Combined, weighted arithmetic		18Apr.	18Apr.	Chalk &		
29.	mean	L29	2022	2022	Board	CO3	
	accreating arithmatic mean and		2022 20 A pr	2022 20 A p.r.	Challe &		
30.	finding arithmetic mean and	L30	20Apr,	20Ap1,		CO3	
	Thraing missing frequencies		2022	2022	Board		
	Positional Averages meaning		21Apr.	21Apr.	Chalk &		
31.	and definition, Median: grouped	L31	2022	2022	Board	CO3	
	and ungrouped data		2022	2022	Dourd		
22	Merits, demerits and properties	1 22	22Apr,	22Apr,	Chalk &	CO3	
52.	of median	L32	2022	2022	Board	005	
	Mode and its findings, merits		25Apr,	25Apr,	Chalk &	G Q Q	
33.	demerits and properties of mode	L33	2022	2022	Board	CO3	
	Method of groupings to find						
34	Mode in grouped data (bimodal	I 34	27Apr,	27Apr,	Chalk &	CO3	
5-1.	trimodal)	1.34	2022	2022	Board	005	
	Cranhia presentation of mean						
	Graphic presentation of mean,		20.4	20.4	CI 11 0		
35.	median and mode, empirical	L35	28Apr,	28Apr,	Chalk &	CO3	
	relation between mean, median,		2022	2022	Board		
	mode and symmetry						
	Harmonic Mean-Properties,						
26	merits and demerits and	1.20	29Apr,	29Apr,	Chalk &	C02	
30.	miscellaneous problems on	L30	2022	2022	Board	COS	
	central tendency						
	Meaning of measures of						
	dispersion Objective and		02May	02May	Chalk &	CO4	
37.	properties of good measure of	L37	2022 2022	2022	Board	CO5	
	dispersion		2022	2022	Doald	005	
•	Absolute and relative measures,		04 May,	04 May,	Chalk &	CO4,	
38.	Range and coefficient of range:	L38	2022	2022	Board	CO5	
	calculations						
	Merit and demerits of range and		05 Mav.	05 Mav.	Chalk &	CO4,	
39.	examples	L39	2022	2022	Board	CO5	
		ļ			Dourd		
40	Mean deviation about mean,	T 40	06 May,	06 May,	Chalk &	CO4,	
40.	median and mode: calculations	L40	2022	2022	Board	CO5	

-							
41.	Properties, merits and demerits of mean deviation about averages	L41	09 May, 2022	09 May, 2022	Chalk & Board	CO4, CO5	
42.	Standard deviation and variance and their calculations	L42	11 May, 2022	11 May, 2022	Chalk & Board	CO4, CO5	
43.	Properties of Standard Deviation and Variance	L43	12 May, 2022	12 May, 2022	Chalk & Board	CO4, CO5	
44.	Merits and demerits of Standard Deviation and Variance	L44	13 May, 2022	13 May, 2022	Chalk & Board	CO4, CO5	
45.	Coefficient of Variation: calculations and examples	L45	16 May, 2022	16 May, 2022	Chalk & Board	CO4, CO5	
46.	Properties, merits and demerits of Coefficient of Variation	L46	18 May, 2022	18 May, 2022	Chalk & Board	CO4, CO5	
47.	Various miscellaneous problems on measures of dispersion	L47	19 May, 2022	19 May, 2022	Chalk & Board	CO4, CO5	
48.	Various miscellaneous problems on measures of dispersion	L48	20 May, 2022	20 May, 2022	Chalk & Board	CO4, CO5	
49.	Extra lectures for revision		onwards	onwards			

CAY: 2021-2022

Syllabus Coverage Report:

MST-I

Give Details of Chapter's / syllabus covered before MST-1

<u>Unit-I</u>

Statistics and Probability: Introduction to Statistics – Origin of Statistics, Features of Statistics, Scope of Statistics, Functions of Statics, Uses and importance of Statistics, Limitation of Statistics, Distrust of Statistics

Collection of Data: Introduction to Collection of Data, Primary and Secondary Data, Methods of Collecting Primary Data, Methods of Secondary Data, Statistical Errors, Rounding off Data (Approximation). **[CO1]**

<u>Unit-II</u>

Classification of Data Frequency Distribution: Introduction Classification of Data, Objectives of Classification, Methods of Classification, Ways to Classify Numerical Data or Raw Data. Tabular, Diagrammatic and Graphic Presentation of Data: Introduction to Tabular Presentation of Data, Objectives of Tabulation, Components of a Statistical Table, General Rules for the Construction of a Table, Types of Tables, Introduction to Diagrammatic Presentation of Data, Advantage and Disadvantage of Diagrammatic Presentation, Types of Diagrams, Introduction to Graphic Presentation of Data, Advantage and Disadvantage of Graphic Presentation, Types of Graphs. **[CO2]**

MST-II

Give Details of Chapter's / syllabus covered before MST-2

<u>Unit -III</u>

Measures of Central tendency: Introduction to Central Tendency, Purpose and Functions of Average, Characteristics of a Good Average, Types of Averages, Meaning of Arithmetic Mean, Calculation of Arithmetic Mean, Merit and Demerits of Arithmetic Mean, Meaning of Median, Calculation of Median, Merit and Demerits of Median, Meaning of Mode, Calculation of Mode, Merit and Demerits of Mode, Harmonic Mean-Properties, Merit and Demerits. **[CO3]**

<u>Unit-IV</u>

Measures of Dispersion: Meaning of Dispersion, Objectives of Dispersion, Properties of a good Measure of Dispersion, Methods of Measuring Dispersion, Range Introduction, Calculation of Range, , Merit and Demerits of Range, Mean Deviation, Calculation of Mean Deviation, Merit and Demerits of Mean Deviation, Standard Deviation Meaning, Calculation of Standard Deviation, Merit and Demerits of Standard Deviation, Coefficient of Variation, Calculation of Coefficient Variance, Merit and Demerits of Coefficient of Variation. **[CO4] [CO5]**

No. of proposed lectures= 48 No. of proposed Assignments=4

No. of proposed MST=2 No. of Quiz = 2

Assignment no. 1

Class: BCA (Semester: 1st) Level of difficulty: Average Date of Issue: 1 Apr, 2022

Subject: Mathematics (UGCA1907) Max Marks: 12 Date of Submission: 10 Apr, 2022

Q No					Questi	ion						CO's, RBT Level	Mark s	
1	Define Statistics. E What are the difference Define tabulation Explain different le	Define Statistics. Elaborate its features, functions, scopes and limitations. What are the different modes of classification of data? Define tabulation Explain different levels of measurements of data with example.												
2	Frame a question pandemic.		CO1, L2	1										
3	A researcher wish	ge		1										
	company, the data	85 0												
		79 0	50 5	61 0	62 0	65 0	68 0	35 0	53 0	49 5	58 5			
		48 0	69 5	61 0	71 0	81 0	52 5	53 0	68 0	70 5	69 0			
		37 0	76 0	59 0	70 5	30 0	59 0	39 0	46 0	59 0	67 0	CO1,		
		45 0	54 0	69 0	48 0	42 0	41 0	59 5	75 0	62 0	56 0	LU		
	 a. What type b. Classify the curve c. Classify the curve histogram 	of data ne data the data	is the a into dis a in co	bove da screte fi ontinuo	ata? requenc us free	cy distri quency	bution distri	and rep	oresent i	it into p present	oolygon it into			
4	The following dat random sample of	a were of 50 day	collecte s.	d on the	e numb	er of blo	ood te	sts a hosj	pital con	nducted	for a		1	
	F		Nun	nber of	F	Frequence	су							
			tests	per day 25	/	(days) 5								
				27		9								
				29 21		11						CO1,		
	$\begin{vmatrix} 31 \\ 33 \end{vmatrix} = \begin{vmatrix} 15 \\ 6 \end{vmatrix}$											L2		
				35		3								
				37		1								
	What type of data i a. Bar Diagra b. Frequency c. Frequency	s the ab am 7 Curve 7 Polygo	ove data	a? Repr	esent tl	he data a	as in tl	ne follow	ving:					

	d.	Histog	ram															
	e. f.	Pie Cha Pictogr	art am															
		1 leto Bi																
5 A i eith	A mathematics achievement test contained 40 questions for which the answers were marked either right or wrong. The distribution below summarizes the results.												marked		1			
			No. of	f Cor	rrect	Ansv	vers			F	reque	ncy						
				1	10-8						04	v						
				8	8-16						10							
				1	6-24						18							
	24-32 06											CO1,						
				3	2-40						02						L2	
	 what type of data is the above data? Represent the data as in the following: a. Bar Diagram b. Frequency Curve c. Frequency Polygon d. Histogram e. Pie Chart f. Pictogram 																	
8 Da	ta on	vehicles	s passing	thro	ugh s	seven	differ	ent h	ighwa	avs d	uring	a dav	v and	the r	num	ber of		1
acc	cident	s are giv	ven belov	v. Co	ompu	te the	coeff	icien	t of co	orrela	ation.	-	,				CO3	
N	o. of	Vehicles	s (in 000s ts roport	5) X od V	9	11	14	15	16	19	21						L4	
	0.01	acciaci		cui	50	140	00	70	05	55	110	<u>′</u>						
9																		1
Gi	ven tł	ne follov	ving:								T		_		_			
	rithm		22								X-se	ries	Y-9	series				
A	ssum	ed Mea	n								69.0	0	11	2.00			CO3.	
S	tanda	rd Devia	ation								13.0)7	15	.85			L4	
N	o. of	pairs of	observat	tions							8		8					
SI Ca	umm: Iculat	ation of	the prod	ucts	of de	eviatio	ons of	X an	d Y se	eries	217	6	21	76				
Cu	Iculu	e the re	urr r curs	511 5 (00011	lelent	01 00	iieiu	.1011									
.0	uan th	a fallou	ing room	1to.														1
	ven u		vilig iesu	115.	X-se	ries	Y-se	ries										
Ν	lo. of	Observa	ations		20		20											
A	rithm	etic Me	an		15		20										CO3,	
	tanda	rd Devia	ation correlatio		4	^ /	<u> </u>										L4	
At	At the time of checking it was observed that one item 27 was wrongly taken as 17 in X-serie										5							
and	1 35 i	nstead o	of 30 in c	ase of	f Y-s	series.	Find	the c	orrect	ted c	oeffici	ent o	of co	rrelat	ion.			
l 1 Ob	tain t	he rank	correlatio	on co	oeffic	ient b	etwee	en the	e varia	able 2	X and	Y fro	om tl	ne fol	lowi	ng	CO3,L	1
pai	rs of	observe	d values:		,				1							-	4	1
X	:	50	55	65		50	55	5	60		50	65	5	70		75	11	

	Y:	110	110	115	125	140	115	130	120	115	160		
	Differe												
12													1
	Given t												
	X:	75											
	Y:	110	110	115	125	140	115	130	120	115	160		
	a)	Obtain	regressio	on equati	ons of Y	on X an	d X on Y	(CO3,L	
	b)	Why w	e have ty	vo regres	sion line	es? How	would ye	ou establ	ish coeff	icient of		4	
		correla	tion fron	the two	regressi	on lines?							
	c) Use above result to calculate coefficient of determination.												
	d)	Estima	te Y whe	n X is 88	and X	when Y i	s 56						

CAY: 2021-2022

Tutorial No. 1

Subject: Mathematics-I (UGCA1907) Date of Issue: 15 March, 2022

Semester: 1st Date of Submission: 22 March, 2022

Q		CO's,	
No.	Question	RBT	Marks
		Level	
1	Define statistics in its different senses and explain it briefly.	CO1, L2	0.5
2	Write any six definitions of statistics along with the name of the proposer. Which definition do you think to be the best and what does it define?	CO1, L2	0.5
3	Elaborate the characteristics of statistics in singular and plural senses.	CO1, L5	0.5
4	Differentiate statistics in plural and singular senses.	CO1, L2	0.5
5	Explain the functions of statistics.	CO1, L2	0.5
6	Explain the scope and importance of statistics in different fields.	CO1, L2	0.5
7	What are the merits and demerits of statistics?	CO1, L2	0.5

CAY: 2021-2022

Tutorial No. 2

Subject: Mathematics-I (UGCA1907) Date of Issue: 22 March, 2022

Semester: 1st Date of Submission: 29 March, 2022

1	What are the various sources of data? Briefly explain.	CO1, L2	0.5
2	Explain the types of data with merits and demerits.	CO1, L2	0.5
3	Differentiate between primary and secondary data.	CO1, L4	0.5
4	Explain various methods of collection of primary and secondary data.	CO1, L2	0.5
5	Form a questionnaire to analyze the consumer preference over various types of eating habits of customers.	CO1, L6	0.5

B. Tech. Mechanical Engineering 4th Sem Subject: Material Engg. (BTME-404-18) Quiz-2 (02/05/2022) Topic: Phase Diagrams Max. Marks: 10

- 1. How many types of systems are applicable for phase diagrams? (CO3/RBTL2)
- (1 Point)
- One
- Two
- Three
- Four
 - 2. Separation of single-phase solid regions from two-phase solid regions is done by _____. (CO3/RBTL3)
- (1 Point)
- C Solidus line
- Solidus line
- C Solvus line
- Eutectic point
 - 3. During solidification of a pure molten metal, the grains in the casting near the mould wall are. (CO3/RBTL2)
- (1 Point)
- C coarse and randomly oriented
- [©] fine and randomly oriented
- fine and ordered
- Coarse and ordered
 - 4. The reaction in which liquid phase transforms into two different solid phase is called. (CO3/RBTL2)
- (1 Point)
- C Eutectoid reaction
- Peritectic reaction
- C Eutectic reaction
- O Peritectoid reaction
 - 5. A specific body of material or a series of alloys with the same compositions is/are known as _____. (CO3/RBTL1)
- (1 Point)
- Component
- System

- _{Alloy}
- Solute
 - 6. Which of the following cannot be obtained using a phase diagram? (CO3/RBTL2)
- (1 Point)
- ^O Melting temperatures of various phases
- Temperature range for solidification
- C Equilibrium solid solubility
- O Purity of materials
 - 7. The reaction in which a liquid phase transforms into two different solid phases is called _____ (CO3/RBTL3)
- (1 Point)
- C Eutectoid reaction
- Peritectic reaction
- C Eutectic reaction
- Peritectoid. reaction
 - 8. Which of the following is not a name for phases present in a system of material in various conditions? (CO3/RBTL2)
- (1 Point)
- O Phase diagram
- Equilibrium diagram
- Interstitial diagram
- C Constitutional diagram
 - 9. How is Gibb's rule defined? (CO3/RBTL3)
- (1 Point)
- C+P+1
- _{C+P+2}
- © _{C-P+2}
- _{C-P}

10. The point at which two liquidus lines meet is known as _____. (CO3/RBTL3)

- (1 Point)
- Eutectic point
- isothermal point
- Solvus point
- O Peritectic point

Name of Activity	Mind Map: Problem Solving (Hypothesis Testing)			
Class	B. Tech. (CSE) Semester: 2			
Academic Year	2021-22			
Course name	Probability & Statistics: BTAM204-18			
Semester	2 nd	Date: 10 May, 2022		
Faculty Coordinator	Ashwani Kumar (Department of Applied Sciences)			

Context: Planned activity is the group activity. Basically student involvement, thinking on problem statement, group discussion among the team and identification of solution is done.

Five groups of 5-5 students formed as per the choice of students and comfort zone to get better outcome. Each group has assigned a group leader (on the bases of performance in the previous assessments) and given a **problem to solve**. The problem statements will be different for each group so that the group members concentrate on their own problem. Leader first explain the topic to the group to which the problem is concerned and the method to solve the problem (if required) so that every member become a master to solve the problem. Then leader of the group will discuss the given problem with the group members and decide and distribute the tasks among the group members for timely submission of task. This will help students to **work in a team** and the leader member to enhance his/her leadership qualities. During their task of problem solving students are kept free to ask any doubt or query with the teacher. After all satisfactory discussion, students sit together (group wise) and prepare a solution for the given problem statement. Once the flowchart of the methodology and problem solution is ready, students have to draw the complete details on a chart paper and present in front of the complete class. It is kept mandatory for every member of the group to present a part of the problem solution which will **enhance the communication skill** of every individual student and will **remove** the stage fear of the students. The instructor and other students are expected to ask the cross questions and get involve in each other's work.

Activity Description

Step1- A lecture on the topic was earlier delivered

Step 2- Selection of team members as per choice and comfort level and assigning a leader.

- Step 2- Assigning problem to solve to each group
- Step 4- Discussion on topic related to problem within group by the leader
- Step 4- Discussion on solution to the problem and explain methodology of it within group.
- Step 3- Distribution of tasks by leader in coordination of team members
- Step 5- Finalization of most suitable solution
- Step 6- Drawing the complete flow chart, solution and key points on chart
- Step 7- Presentation of the solution to problem given and chart in front of the class
- Step 8- Discussion and answering the questions by friends and teacher.

Practice (Problem Statement, Rubrics)

- 1. This activity will be in class activity. **This will be graded activity**. Students groups will be formed with 5 students per group. Problem statement is given well in advance to students so that they can get prepared well and come with the required solution. 15-20 minutes will be given for understanding topic and discussion among the members after giving problem before presentation.
- 2. After 15 mins instructor will announce the time and take review on student's performance. Students will be instructed to present the work in front of complete class.
- 3. Faculty will coordinate and will help students in clarifying the understanding of the problem statement and the topic anytime.
- 4. Faculty then will invite each group to present their poster and explain the flowchart and problem solving methodology. Likewise every group will be evaluated.
- 5. Faculty will give feedback (reflections on performances) on every group's performance.
- 6. All groups will be asked to submit a chart on the activity including flowchart, problem solution and the key points.
- 7. Forum will kept open for suggestions and discussions.
- 8. Questions sample:

Sr.	Problem Statements	COs	RBT
No.			Level
1	In a hospital 475 female and 525 male babies were born in a week. Do	CO3	L6
	compared to female babies?		
2	In a city a sample of 1000 people were taken and out of them 540 are	CO3	L6
	vegetarian and the rest are non-vegetarian. Lan we say that the both		
	city at (i) 1% level of significance (i) 5% level of significance?		
3	325 men out of 600 men chosen from a big city were found to be	CO3	L6
	smokers. Does this information support the conclusion that the majority		
	of men in the city are smokers?		
4	would like to have a school near their residence, 200 men and 325	CO3	L6
	women were in favour of proposal. Test the hypothesis that the		
	proportion of men and women in favour or the proposal are same at 5%		
	level of significance.		
5	In a town A, there were 956 births of which 52.5% were males while in	CO3	L6
	towns A and B combined, this proportion in total of 1406 births was		
	0.496. 1s there any significant difference in the proportion of male births		
	in the two towns?		
6	A sample of 1000 students from a university was taken and their average	CO3	L6
	mean weight of students in the nonulation be 120 nounds?		
7	A random sample of 200 measurements from a large population gave a	CO3	16
	mean value of 50 and a S D of 9 Determine 95% confidence interval for	005	гo
	the mean of population.		
	F-F		

Criteria	Ratings				Pts
Gifteria	10	08	06	04	
Flowchart making & problem solution	Correct Solution with proper explanation and correct answers to all logical asked questions during presentation	Correct Solution with good explanation but failed to answer two OR more than two basic questions asked during explanation	Partially correct solution to the problem with limited explanation but answer all questions	Partially correct solution with partial explanation and failed to answer two or more questions	10
	5	4	3	2	
Chart making and presentation	Good Poster prepared with correct Flowchart & neat & complete explanation	Moderately good Poster prepared with correct flowchart & good explanation	Poster prepared with Partially correct design and good explanation	Poster prepared with partially correct design and partially good explanation	05
	·	<u>.</u>		Total	15

Evidence of Success / Outcome / Post reflection:

This activity basically help the students in developing the various essential qualities among them like, team work, group discussion, involvement, thinking and learning critical topics, presentation skills, communication skills and leadership qualities and removal of stage fear of the students. Students are motivated to work well and produce good results. Also it is always desired that all the team members are involved and participated equally. Definitely student's involvement was always good and satisfactory performance is observed during the presentations.

PHOTOS OF THE ACTIVITY:



Students having a discussion in group



Mind map-chart preparation by students



Groups presented on stage one by one



Mind maps-charts prepared by students

Critics:

Following are the observation related to Mind map activity

Feedback has been taken from students orally as well as through Google form:

https://forms.gle/B25mkL6ntaK3tpeA8

Positive observations -

- Students are groomed to enhance the Communication skill and presentation skills
- Students start thinking to find solution of problem on their own way
- Enhance the team work, leadership and social responsibilities
- Students are groomed to reduce their stage fear
- Most of the students are active in this activity
- Most students like the idea of involving activities in teaching-learning

Negative observations -

• In many group it has been observed that few students are inactive and not much involved.

D.A.V Institute of Engg. & Technology B.Tech Electrical Engineering- 4th Semester Batch: 2020-2024 Name of Activity: JIGSAW Date: 10.05.22

<u>Context</u>: Jigsaw helps students learn cooperation as group members share responsibility for each other's learning by using critical thinking and social skills to complete an assignment. Subsequently, this strategy helps to improve listening, communication, and problem-solving skills.

Step 1: Divide students into groups of 4 people per group. ...

Step 2: Divide your content into 4 chunks. ...

Step 3: Assign one chunk of content to each person in the Jigsaw Group. ...

Step 4: Have students meet in Expert Groups. ...

Step 5: Students return to Jigsaw Groups. ...

Step 6: Assess all students on all the content.
Phase 1: Students meet in home groups



Phase 2: Students meet in expert groups



Phase 3: Students return to home groups to teach

1	2
3	4

1	2
3	4

1	2
3	4

1	2
3	4

Practice (Problem Statement , Rubrics)

Home Group

For the first part of the activity, students require to group into their HOME group. Each HOME group consists of four students which has been assigned different topics of Minimization Technique. The classification of sub topics are as follows:

- 1. Boolean Algebra
- 2. De-Morgan's Theorem
- 3. 4-Variables K-Map
- 4. 5-Variables K-MAP

	Student 1,	Student 2,	Student 3,	Student 4,	
	Expert on	Expert on	Expert on	Expert on	
Minimizations	Boolean	De-	4-Variables	5-Variables K-	
Techniques	Algebra	Morgan's Theorem	К-Мар	MAP	

JIGSAW ACTIVITY PICS







EXPERT GROUP

In the next phase, students need to go to the EXPERT group (Group with the same topic) where they are sharing their own opinions and explanations regarding the assigned topics. After they achieved a good understanding regarding the topics, they will proceed to sketch the notes interactively to enable their HOME group to understand their given topics.

JIGSAW ACTIVITY PICS





JIGSAW ROTATION

In the last part of the activity, students need to return to their respective HOME group. After that, each student will explain the given subtopics to their fellow HOME group members based on the designed notes in the previous procedure. Their fellow group members can ask any questions and they can make a short discussion regarding the explained topics.

Q.	Question Description	Marks	CO	Bloom
No.			Mapped	Taxonomy
1				
1	Prove that if A+B= A+C and	5	2	6
	A'+B=A'+C, Then B=C			
	Draw Circuit Diagram			
2	By using De-Morgan's theorem			
_	implement the following			
	equation and also implement the	5	2	6
	circuit using AOI			
	[(ABC+AB')' + BC]'			
3	Minimize the following			
	expression using K-Map and			
	implement the circuit using	5	2	6
	NAND gates only			
	Y = ∑m(2,3,4,5,13,15) +			
	∑d(8,9,10,11)			
4	Minimize the following using K-			
	map:			
		5	2	6
	Y(A,B,C,D,E) =			
	Лт(0,5,7,10,11,14,15,16,21,26,2			
	7,30,31)			
	Total	20		
			1	

Rubrics of the Activity

Criteria	Ratings			marks
This criterion	5-	2.5 marks for	0 marks	
is linked to a	Marks	Solution	for no	
course process.	Solve and	2.5 marks for Draw the	description	5-Marks
Draw Circuit	Draw	circuit		
Diagram		diagram		
This criteria	5-	2.5 marks for	0 marks	
is linked to a	Marks	Solution	for no	
course			description	
process	Solve	2.5 marks for Draw the		5-Marks
ylady	Draw	circuit		
Demorgan's		diagram		
theorem				
Implement the circuit by using AOI				
This criteria	5-	2.5 marks for	0 marks	
is linked to a	Marks	Solution	for no	
course			description	
process	Solve and	2.5 marks for Realization by		5-Marks
Minimization	Draw	using NAND		
by using K-		gates		
Map(4-				

5- Marks	2 marks for	0 marks	
Solvo	representation	description	
and	3 marks for		
Draw	minimize the		5-Marks
	5- Marks Solve and Draw	5- 2 marks for Marks Graphical representation Solve and 3 marks for Draw minimize the function.	5- Marks2 marks for Graphical representation0 marks for no descriptionSolve and Draw3 marks for minimize the function

1	DAV Institut	e of Engineerin	ig & Technology	, Jalandhar					
	De	partment of Elec	ctrical Engineering	;					
	Class	: B.Tech EE- 4th S	em Batch: 2020-20)24					
Sul	bject: Digital Ele	ectronics S	ubject Incharge: Dr.	Neeru Malhotra					
Activity Name: Jigsaw									
S.No.	Class Roll No.	Signature							
1	302/20	2003695	Drishti Bhatia	apporta					
2	303/20	2003696	Kishpreet Kaur	kishprut.					
3	304/20	2003697	Navraj Singh	Nawey Singh					
4	305/20	2003698	Rajanpreet Singh	Ab.					
5	306/20	2003699	Rajat	Regat Arrorg					
6	307/20	2003700	Sahit Devgan	Sphit peugan					
7	308/20	2003701	Shifali Sharma	Shihali Sharma					
8	309/20	2003702	Tushar Gill	Tusher					
9	371/19	1903741	Kaushal Kumar	Ab.					
10	311/20	2103332	Abhihek Prasher	Johenek					
11	312 /20	2103333	Akhil Sharma	April Shaema					
12	313 /20	2103334	Amandeep Kaur	Aman					
13	314 /20	2103335	Ashish Koundal	ALATH					
14	316 /20	2103337	Deepak Kumar	Dumex					
15	317 /20	2103338	Dheeraj Kumar	Thead Furgal.					
16	318/20	2103339	Jujhar Singh	Jusher Silhen					
17	320 /20	2103341	Nikhil Kumar	Ab.					
18	321 /20	2103342	Prabhat	Parkhat					
19	322 /20	2103343	Rahul Sahota	Ret III A					
20	323 /20	2103344	Tarun Sharotry	Jarum					
21	324 /20	2103345	Vishal	Ab.					
22	354/19	1903688	Sonu Singh	Ab.					

Nor Near Malholas

DAV Institute of Engineering & Technology, Jalandhar Department of Electrical Engineering

Note on Role Play

Role-play is a technique that allows students to explore realistic situations by interacting with other people in a managed way in order to develop experience and trial different strategies in a supported environment. It is a very flexible teaching approach because it requires no special tools, technology or environments. The students of 7th semester, Electrical Engineering organized role plays on 27th September, 2018 for B.Tech. Electrical Engineering 5th and 7th semester students in a seminal hall. Dr. Sudhir Sharma (HoD – EE), Dr. Chintu Rza (AP), Mr. Baljit Singh (AP), Mr. Mani Bansal (AP), Mr, Rahul Sharma (AP), Mr. Inderdeep Singh (AP) were present at the event. Topics for role play were i) System protection and ii) Working of alternator. The basic idea of "System protection" was to show how different types of protective schemes like relays, fuse, circuit breaker etc. are used for protection and also the role of an electrical engineer in clearing the fault. Similarly the basic idea of "Working of alternator" was to show how different parts of alternator like stator, rotor, exciter, prime mover etc., worked together to generate output and also to show the precautionary measures when there is fault in transformer. At the end, Dr. Sudhir Sharma (Head – EE) encouraged all the participants with his kind words. He appreciated the efforts done by the department of Electrical Engineering and motivated the students to participate more in future.



Role Play: System Protection













Crossword Puzzle

Class: B. Tech. Subject: EM&I Date of Issue: 28-9-18/27-9-18

Semester: 3rd Tutorial Sheet No. 5 Date of Submission: 28-9-18/27-9-18

Solve the crossword Puzzle

Across

- 4. Bridge modification of wheatstone bridge
- 6. force required to move pointer from its zero position
- 9. damping used in galvanometers

11. It is control which can be used in vertical mounted instruments

13. In PMMC, first M stands for_____

14. modern day potentiometer

Down

1. second name of universal shunt

2. employed to extend the range of voltmeter

3. used as detector in bridge circuits

5. used to extend the range of ammeter.

7. foster bridge to determine the difference between

standard and unknown resistance

8. base unit of SI

10. used for null indication in measurements

12. In V.O.M, O stands for_____.



REINFORCE THE SOFT SOILS WITH GEOGRID AND ENCASED STONE COLUMNS: NUMERICAL INVESTIGATION

Major Project Report

Submitted in Partial Fulfilment of the Requirement for the award of Degree of Bachelor of Technology

(2017 - 2021)

Submitted By:

Antriksh Chander (1803983), Asim Amin (1803984), Dikshant (1803986) Karan (1803990), Karanveer Dhawan (1803991), Madhav Pahwa (1803992) Prince (1803995), Raghav Pahwa (1803996), Rahul Bhagat (1803997) 5/2/2020

Under the Guidance of Er. Sudheer Kumar Jala (Assistant Professor) Department of Civil Engineering



D.A.V. Institute of Engineering and Technology, Kabir Nagar, Jalandhar

MST-Circular

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/ 21-22/ edm 279

(ISO 900I:2008 CERTIFIED)

Dated : 05/10/21

Circular

It is for the information of all the students of B.Tech., B. Com., BBA, BCA, and MCA (5th & 7th semesters only) that **I**th **Mid Semester Tests** shall be held w.e.f. **11/10/2021** as per the schedule enclosed. A student failing to appear in any of the MSTs will lose the internal assessment related to that subject accordingly. Each MST shall be of 24 marks and 1.30 hrs duration.

Pattern of MSTs (Common to all streams)

- There will be six questions in each MST.
- Two questions (1&2) of 02 marks each, three questions (3, 4 & 5) of 04 marks each and one question (6) of 08 marks.
- Question Nos. 1 5 will be compulsory. Question no. 6 will have two choices and the student is required to attempt any one.
- Questions may have sub parts.
- Atleast 40% weightage shall be given to numerical based questions (if any).

Notes:

- 1. The students are advised to take their respective seats in the examination hall 15 minutes before the scheduled start of examination.
- 2. No extra sheet will be provided.
- 3. No student shall be allowed to leave the examination hall before half time; however, in case of an emergency a student can leave the examination hall early with the permission of the concerned invigilator.

Dr. Devinder Priyadarshi Controller of Examination

Copy to:-

- 1. Principal, for information please.
- 2. All HoD(s): To circulate the above information amongst the students of their respective departments.
- 3. Website Coordinator: To display the date sheet on the institute website.
- 4. Information corner, Departmental and Hostel notice boards.

Website : www.davietjal.org Email : daviet@davietjal.org

Ph.: 0181-2207650, 2200232, 2343400 Toll Free: 1860 180 0126

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/ 21-22/ Edam 280

THROUGH INNOVATION

(ISO 9001:2008 CERTIFIED)

Circular

Dated : 05/10/21

It is for the information of all the faculty members that Ist Mid Semester Tests of 5th and 7th semesters shall be held w.e.f. 11/10/2021 as per the schedule enclosed. A student failing to appear in any of the MSTs will lose the internal assessment related to that subject accordingly. Each MST shall be of 24 marks and 1.30 hrs duration.

General guidelines for framing the question paper:-

- The question paper shall be strictly in the format already circulated vide an O/o 5972 dated 23/08/2018.
- Questions of Mid Semester Test should be framed corresponding to various knowledge levels of Revised Bloom's Taxonomy.
- Questions of Mid Semester Test should be mapped with the course outcomes of the respective course.
- The course outcomes of the respective course shall also be printed on the question paper.
- 40% and 60% weightage shall be given to LOTS and HOTS respectively while setting the question paper.
- Atleast 40% weightage shall be given to numerical based questions if any.
- It shall be the duty of the faculty members to intimate the undersigned regarding requirement of any extra material like Log Tables/Graph paper/ Semilog paper/Steam tables/ I S Codes etc. well in time.

The concerned faculty members are requested to submit the required number of copies of the question paper corresponding to the strength of their class (in a sealed envelope) to the exam branch on or before 07/10/2020.

Dr. Devinder Priyadarshi Controller of Examination

Copy to:-

- 1. Principal, for information please.
- All HoD(s): To circulate the above information amongst the faculty/Staff members of their respective departments.

Website : www.davietjal.org Email : daviet@davietjal.org

Ph. : 0181-2207650, 2200232, 2343400 Toll Free : 1860 180 0126

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR

Date sheet for 1st Mid Semester Test- October 11, 2021 to October 13, 2021.

All Programmes

11.2	i in a	UGC Courses 5 th Sem.				B. Tech. 5 th Sem.					B. Tech. 7 th Sem.						
DATE	SHIFT	BBA	BCA	в сом.	MCA	CSE	IT	ECE	EE	ME	CE	CSE	ECE	EE	ME	п	CE
11 th Oct. 2021	1	OR	рнр	FM	MLDA	ERP	JAVA	ADC	PS-1	нт	EG	NS	loT/ PY	HSSM/ ETAS	MV	STQA	PP1.E
	11	ML	JAVA	GST	AWT	DBMS	DBMS	DSP	CS	DoM	EEE	DWM	BD/ AIML	EHV	лім	DWM	OB
12 th	1	CB/CA/ IRLL	CC	PFP/ BSM	NLP & SR	FLAT	FLAT	LIC	MP	MEE	CEM	WSN	AI/ SC	DG	FME	SPM	RWS
Oct. 2021	П	ASM/FM/ OCD	SPM	AFM/ ISM		SE	SE	CS	S&P/ RES	MP	EE	A S/W		ESS	DE	MCN	PGDH
13 th Oct. 2021	1					CN	CLIPR	R&S/ JAVA	2010 11-21		SE	OPEN	ELECTIV	E (MCN	/CS/E	ECA)	DHS
	п		N Presses			рр	UHV2	PM		BILLOV - Kr	GE	OPEN ELECTIVE (MSE/A1/RES)					

SHIFT TIMINGS:

Shift-I	10:00 a.m.	- 11:30 a.m.			
Shift-II	02:30 p.m.	- 04:00 p.m.			

Controller of Examination

Ι	DAV Institute of Engineering & Technology, Jalandhar									
	Department of Electrical Engineering									
Progr	am	B.Tech (EE))	Semester	0	5 th				
Subje	ct Code	BTEE- 502		Subject Title	9	Electric Gene	eration and Economics			
MST	No.	1		Course Coor	dinator	Ms. Shivani M	<i>M</i> ehta			
Max.	Marks	24		Time Durati	on	1 hour 30 mir	nutes			
Date of	of MST	5-9-18 (M)		Roll No.						
Note:	Attempt all que	estions					1	1		
Ques No.	Ques Question No.							Marks		
1	Rearrange the f	ollowing powe	r plants in	descending orde	er of capital	investment	CO1	2		
-	and fuel cost: st	team, hydro, hu	uclear and	diesel power pla	ants.		L2	2		
2	power generati	ent convention on.	ial and non	i-conventional e	nergy sourc	es used in		2		
3	Compare the st	raight line dep	reciation, s	inking fund dep	reciation an	d percentage	CO3	4		
	depreciation.						L4			
4	Compute the ge	eneration cost	per kWh fr	om the following	g data:		CO3	4		
	depreciatio	ty = 200 MW, t n = 12%, Fuel c	onsumptic	on = 0.6 per kWh	, Fuel cost =	= Rs.1230 per	L4			
	1000 kg, Ot	her operating o	costs = 30%	6 of fuel costs,						
	Peak load =	170MW, load	factor = 80)%.						
5	Draw and discus	ss the characte	ristics of d	ifferent types of	load for ty	pical summer	CO 2	4		
	and winter day.						L3			
6	a) Define the	terms: connect	ted load, m	haximum load, d	emand fact	or, load factor.	CO2	2,6		
	b) A residence	e has following	connected	l loads : 6 lamps	of 100W ea	ach, 6 lamps of	15			
	40W each,	5 fans of 60W	each, 2 po	wer plug points	1000W eac	n, 4 light plug	23			
	points 100	w eacn, one ge	eyser 3000	w.ine electricity	/ use on a si	ummer day can				
	Lamps- Op	e 100W Jamp fi	rom 5am tr	o 6am Blamps e	ach of 100V	V and 3 Jamps				
	each of 40	N from 7nm to	11nm · Fa	uns- Two fans us	ach of 1000 ad simultan	eously from				
	8 am to 11r	m : Power plu	Tipini, Ta Tipad- Nili	light plug load-	One noint i	used from 6am				
	to 8am 12	noon to 2nm a	and 7nm to	10nm : Gevser-	Qam to 10a					
	Plot the ch		d curve for	this residence f	or summer	and evaluate				
	the Maxim	um demand D	emand fac	tor Average loa	d Monthly	consumption				
	of electricit	uni demand, D		tor, Average loa	u, wontiny	consumption				
		L Y .		OR						
	a) Discuss	the importanc	e of divers	ity of loads in a l	nower syste	m				
	b) The loa	id on a power p	plant on ty	pical day is as ur	nder:		L2, L5			
	Time 12	-5am 5-9am	9-6pm (6pm-10pm	10pm-12am	ı				
	Load(MW)	20 40	80	100	2	0				
	Plot the chrono curve. Also com plant in 24 hour	logical load cur pute the load f rs.	rve, load du factor of th	uration curve, m ne plant and the	ass curve a energy sup	nd energy plied by the				

COURSE O	COURSE OUTCOMES (COs)						
Student w	Student will be able to						
1	CO 1: know the performance of different energy sources and organization of power sector.						
2	CO 2: to make use of load curves and related factors for determining power generation and selection of plants.						
3	CO 3: carry out the economic analysis of electrical energy generation for different power plants.						
4	CO 4: aware of different tariff plans with need and methods to improve power factor.						
5	CO 5: to demonstrate the engineering issues in scheduling of thermal and combined hydro & thermal power plants, cogeneration plants along with their environmental aspects.						

RBT Classification	Lower Order	Thinking Skills	(LOTS)	Higher Order Thinking Skills (HOTS)			
RBT Level	L1	L2	L3	L4	L5	L6	
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	

Car	9223 ANSV	VER S	HEE	Г			
amo	Manata Davi	Fatharla	Nomo	Much		A Theo	la se
anic		Fauler 5	Name	1.114.14	02242786	/	ALAR.
lass I	Roll No	1.10.15	75	Su	bject	<u></u>	ircui
ranch	Bechical Semester D	Ird		Sec	tion	mup (A	2
id Se	mester Test	-09-20	18		N	1	1
-					Signatores	er the Invi	gilator
1	NSTRUCTIONS FOR STUDENTS		MA	RKS	AWAR	DED	
1.	Write on both sides of the pages.	Q. No.	(2)	Sectio	ns (if any	(1)	Su
2.	No answer book or paper of any kind should be taken away from examination hall except the question paper.	1.	(a)	(0)	(0)	(0)	15
3.	No page of the answer sheet shall be torn out on any account.	2.					2
4.	Nothing should be written on the question paper/calculator/scale etc. except the Roll	3.					3
5.	The use of Mobile phone, programmable calculators, smart watch and digital diaries in	4.	2	1			3
	the examination hall is not permitted & their usage shall be considered illegal. However the use of scientific calculator is allowed.	5.	12	£			3
6.	The student must write in Blue/Black ink only in the answer book.	6.	2	92			6
7.	No extra sheet will be provided in any case.	Total m	arks in fig	ures:	q	-	
8.	Rough work, if any, should be done on the last page of the answer book.				d	0	
9.	The possession of book, paper or any reference material of any kind by the student shall be treated as a case of unfair means according to the rules.	Total marks in words: Twenty only					
10.	This answer book must be handed over to the invigilator before leaving the examination hall even if no question has been attempted.	Signatu	res & Full	name o	f examine	r: am	

DAV Institute of Engineering & Technology, Jalandhar Award Sheet MST-II November-2021

Class: ECE-7th	C. Code:	BTEC-907D-18	Course Name: Python Programming
Total Students: 22	Absent: 3	Pass: 14	Pass(%) = 74

		Q. No		1	2	3	4	5	6	
		CO Mapped		CO2	CO4	CO4	CO1	CO2	CO3	Total
RBT Level		L2	L2	L3	L2	L3	L3			
		Max Marks		2	2	4	4	4	8	24
S.No.	Roll_No	Uni.Roll No.	Student		_	Marks A	warded	-		
1	204/18.	1803780	Manpreet Kaur	1.5	2	3	4	0.5	0	11
2	206/18.	1803782	MD Fayeem	1.5	0	2	2.5	0	0	6
3	209/18.	1803785	Pooja	1.5	0	3	3	1	1	10
4	210/18.	1803786	Priya	1	0	2.5	3	0	0	7
5	212/18.	1803788	Ravi Kumar	1	0	0	0	0	0	1
6	214/18.	1803790	Ritik Garg	2	2	2.5	3.5	2.5	7	20
7	215/18.	1803791	Ritvik Sharma	Absent						
8	216/18.	1803792	Riya Joshi	2	1.5	4	4	3.5	3	18
9	217/18.	1803793	Riya Vinocha	2	2	2	3	2	1	12
10	220/18.	1803796	Sahil Rana		-		Absent			
11	221/18.	1803797	Sahil Syal	1.5	1.5	4	3.5	3	3	17
12	222/18.	1803798	Sahil Parmar	2	2	4	4	4	8	24
13	223/18.	1803799	Samridh Khanna				Absent			
14	224/18.	1803800	Shaswat Thakur	2	0	3	2	0	6	13
15	225/18.	1803801	Souravpreet Singh	1.5	2	4	2	2	5.5	17
16	226/18.	1803802	Sukhdeep Singh	1.5	1.5	3.5	2	2	4	15
17	227/18.	1803803	Surbhi Joshi	1.5	2	3.5	4	3	6	20
18	228/18.	1803804	Sushant Dogra	2	2	3.5	3	3	6	20
19	230/18.	1803806	Vatanpreet Kaur	1	1.5	4	4	3	7	21
20	231/18.	1803807	Vikas	0	0	1.5	0	1.5	0	3
21	234/18.	1803810	Yogesh Kumar	1	0	0	2	0	0	3
22	235/18.	1819883	Muskan Roda	1.5	1.5	4	3.5	0	2	13

D.A.V Institute of Engineering & Technology, Jalandhar

Ref. No.: DAVIET/

U.P.C.

Dated:

To, Surinder Singh # 652, Janta Colony, Maqsudan Jalandhar City Punjab 144027

Subject: Attendance-cum-Performance Report - .MST1 Dear Sir/Madam,

The attendance and MST1 record of your ward Arshdeep Singh Roll No.309/18 studying in B.Tech-EE-3 Semester is as under

1.8	Attendance Record from - 16/Jul/2019 to 17/Sep/2019 Maximum Marks for each subject are 24									
S.n	o Subject	Theory		Tutorial		Practical		Percentage	Marks Obtained	Highest
		Att.	Del	Att.	Del	Att.	Del			
1	MENTORING & PROFF DEVELOPMENT STUDENTS	0	0	7	7	0	0	100.00		
2	ELECTRICAL MACHINES - I LABORATORY	0	0	0	0	12	15	80.00		
3	ANALOG ELECTRONICS LABORATORY	0	0	0	0	12	12	100.00		
4	ENGINEERING MECHANICS	21	22	3	3	0	0	96.00	21	21
5	INDIAN CONSITUTION	20	22	0	0	0	0	90.00	14	21
6	ELECTRICAL MACHINES - I	22	24	0	0	0	0	91.00	16	19
7	ANALOG ELECTRONICS	22	24	0	0	0	0	91.00	11	16
8	ELECTROMAGNETIC FIELDS	20	20	5	6	0	0	96.00	24	24
9	ELECTRICAL CIRCUIT ANALYSIS	24	24	9	9	0	0	100.00	16	21
Tot	al	129	136	24	25	24	27	94.15	PASS -	70.83 %

Minimum Attendance requirement is 75%

Passing Marks required for each subject is 40%

Remarks:

1) Your ward is quite regular in the classes. He/She has a chance to be a part of the elite excellent attendance rating by making an extra effor

2) Your ward is performing well. He/She has a potential to perform better. Encourage him/her for the same.

(V) Your ward is not participating in Co-/Extra Curricular activities. Please encourage him/her to participate in these activities. Note: You are requested to make a remark on this note i.e. seen and send it back with feed back/comments to the Institute at the earliest for our record purpose. You may also post your feedback at rahulruddra@gmail.com

ROHUL SHARMA 9780086665 (Class In-charge)

Remarks of Parents:

Pro Dr. Sudhir Sha 9872203726 *(H.O.D.)

Principal

Junn Signatu

57

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR **DEPARTMENT OF: APPLIED SCIENCE RESULT ANALYSIS OF: MST2**

Session:	202	0-2021
----------	-----	--------

Session: 2020-2021		Class: CE-1		Semester: S	econd Date	Date 22-07-2020	
Subject Wise	Analysis	3					
· Sr. No.	Subject	Subject Code	Appeared	Passed	Pass %age	Name of Faculty	
1	Engineering	BTAM-201/18	15	15	100	Dr. Neeru Sharma	

Classe CE 1

Consolidated Analysis

Maths -II

Total No. of Students	16
No. of Students Appeared	15
No. of Students Passed	15
No. of Students Failed	Nil
Pass Percentage	100%

Performance

Sr. No.	Percentage Slab	No. of Students
• 1	Above 75%	12
2	Above 60% and up to 75%	3
3	Above 50% and up to 60%	-
4	Below 50 %	-

Advanced Learners

Name of Student	Roll No	Percentage of marks	Remarks	
Taniya	605/20	92%		

Action Agenda & Follow up action plan

Suggested extra reading material for good position in university exams.

Slow Learners

Name of Student	Roll No	Result	Remarks
NIL			
			1

Action Agenda & Follow up action plan (Subject Wise) Students were motivated to improve their performance, given youtube links

have

Name & Signature of Subject In-charge

Name & Signature of HoD

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALNDHAR

RESULT ANALYSIS OF MST-1

Session: 2021-2022

Class: MBA

Semester: 3rd

Date: 25/11/21

Subject Wise Analysis

Sr. No.	Subject	Subject Code	Appeared	Passed	Pass %age	Name of Faculty
•	Human Values, De-addiction and Traffic Rules	BTAM- 201/18	53	50	94%	Dr. Shivani Vij

Subject Code: - HVDTR 101-18

Consolidated Analysis

Total No. of Students	59
No. of Students Appeared	53
No. of students Passed	50
No. of Students Failed	3
Pass Percentage	94%

Performance

S	r. No.	Marks Obtained	No. of Students
-	1	Above 75%	1
-	2	Above 60% and up to 75%	11
	3	Above 50% and up to 60%	13
	4	Below 50 %	28

Advanced Learners

Name of Student	Roll No	Percentage of Marks	Remarks
Jyoti Rawat	2122/20	87.5%	
Kanica Kaushal	2124/20	71%	
Neha sareen	2134/20	71%	
Pawni Arora	2139/20	71%	
Shivya goyal	2154/20	71%	
Jyoti Rawat	2122/20	71%	

Action Agenda & Follow up action plan

1. Previous Year Question papers and extra questions of higher level will be discussed thoroughly.

Slow Learners

Roll No	lo Name of Student		Remarks
Gautam kumar	2115/20	Fail	Low Attendance
Prabhjapan kaur	2140/20	Fail	Low Attendance
Abhinav Maheshwari	2102/20	Fail	Low Attendance

Action Agenda & Follow up action plan (Subject Wise)

1. Attention paid to students individually and counseled them to study the subject regularly.

2. Extra notes and guidance will be provided for the better results.

neurs

Name & Signatures of Subject In charge

91

Name & Signatures of HoD

DAV Institute of Engineering & Technology, Jalandhar Department of Electronics and Communication Engineering

Reference No. DAVIET/ECE/1709

Date: 29-08-2018

Time – Table (Extra Classes): Odd Semester (Session 2018-19)

Day: Saturday (01/09/2018, 15/09/2018, 29/09/2018, 06/10/2018 and 27/10/2018)

ECE-4A	ECE-4A ECE-4B		ECE-3B	ECE-2
me (R-15) (R-18)		(R-16)	(R-17)	(R-14)
SIP(PS)	NNFL(NSR)	DSP(GC)	DSP(JS)	ADC(RS)
OFC(LK)	ES(RS1) fs	MP(HS)	DCS(AM)	DCLD(NM)
CN(BJ)	SIP(PS)	LIC(RS)	ALIC(JSM)	NAS(AA)
NNFL(NSR)	OFC(LK)	DCS(AM)	LMP(HS)	OOPS(AB)
ES(RS1)	CN(BJ)	DS(GS)	DS(PR)	M-3 (AK)
	ECE-4A (R-15) SIP(PS) OFC(LK) CN(BJ) NNFL(NSR) ES(RS1)	ECE-4A ECE-4B (R-15) (R-18) SIP(PS) NNFL(NSR) OFC(LK) ES(RS1) CN(BJ) SIP(PS) NNFL(NSR) OFC(LK) ES(RS1) OFC(LK)	ECE-4A ECE-4B ECE-3A (R-15) (R-18) (R-16) SIP(PS) NNFL(NSR) DSP(GC) OFC(LK) ES(RS1) MP(HS) CN(BJ) SIP(PS) LIC(RS) NNFL(NSR) OFC(LK) DCS(AM) ES(RS1) CN(BJ) OFC(LK)	ECE-4AECE-4BECE-3AECE-3B(R-15)(R-18)(R-16)(R-17)SIP(PS)NNFL(NSR)DSP(GC)DSP(JS)OFC(LK)ES(RS1)MP(HS)DCS(AM)CN(BJ)SIP(PS)LIC(RS)ALIC(JSM)NNFL(NSR)OFC(LK)DCS(AM)MP(HS)ES(RS1)SIP(S)DS(GS)DS(PR)

NM: Dr. Neeru Malhotra; JSM: Dr. Jagjit Malhotra; JS: Dr. Jagroop Singh; BJ: Ms. Bindiya Jain; RS: Dr. Ramnik Singh; AA: Mr. Amit Arora; LK: Mr. Love Kumar; PS: Ms. Poonam Sethi; HS: Mr. Hari Singh; GC: Mr. Ganesh Chand; AM: Mr. Ashish Malhotra; NSR: Mr. N S Rekhi; RS1: Ms. Risha Sharma: AB: Ms. Avni Bhatia (IT); AK: Mr. Ashwani Kumar (AS); GC: Mr. Gursewak Singh (CSE); PR: Ms. Pariya (CSE)

Dr. Neeru Malhotra HoD

C/c:

- 1. The Principal for kind information
- 2. Dean (Academics)
- HoD (CSE IT and Applied Sciences)
 Notice board (ECE)
- 4. Notice board (ECE)

DAV INSTITUTE OF **ENGINEERING & TECHNOLOGY**

Kabir Nagar, Jalandhar, Punjab - 144 008

(ISO 9001:2008 CERTIFIED) Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Circular

Ref. No. : DAVIET/ 2/-22/ Exam/378

JGH INNOVATION

It is for the information of faculty and staff that as per the University guidelines, the performance of both the MST(s) is to be taken into account for the internal assessment awards. The entire record pertaining to the awarding of the internal assessment is to be maintained and will be verified by the rationalization committee constituted by the University. However, the students of 5th and 7th semesters who have already appeared in both the MSTs and their awards have been communicated to them may improve upon their performance in the makeup test(s), which shall be conducted from 16/12/21 to 18/12/21 by the respective subject incharges (Course Instructor).

A student shall adopt the following procedure for appearing in the makeup test.

- 1. The student desirous of appearing in the makeup test shall fill up the form (available on the website) and get it endorsed from the Exam Branch, DAVIET.
- 2. The student shall then take a photocopy of the form and deposit the requisite fee in the accounts office.
- 3. The photocopy of the form shall be retained by the accounts office.
- 4. The student shall then take the original application form and original receipt to the concerned course instructor for conducting the makeup test.

The last date for depositing the fee in the accounts office is 13/12/21. The student shall report to the course instructors latest by 10:00 a.m. on Wednesday, December 15, 2021.

The students applying for the makeup test in a particular course shall appear in a common test as planned by the concerned course instructor during the above mentioned dates only.

The course instructors shall maintain complete record of the makeup tests conducted by them and shall consider the performance of the students in the makeup test for awarding final internal assessment awards.

10/12/2021

Dated : 9/12/21

Dr. Manoj-Kumar Principal

10/2/21

Copy to:

All HoD(s)/HCD(s): For information and circulation amongst the faculty & students of CILAD their respective departments.

CoE DAVIET: For information and necessary action. Sr. Asstt. (Admn. & Accounts): For information and necessary action.

Sinta

61

Website : www.davletjal.org Email: daviet@davietjal.org

7650, 2200232, 2343400 Pb-:0181 Toll Free : 1860 180 0126

high

DAV Institute of Engineering and Technology, Jalandhar

Department of Electronics and Communication Engineering

Reference No. DAVIET/ECE/2018-19/19/10

Date: 22-011 2.11

Date Sheet (Special Test) - Even Semester (2018-19)

Date	B. Tech ECE (6th Semaster)	D Test ECD # th a	10.00
24/04/2019 (M)	VI SL	B. Iech. – ECE (4 "Semester)	1.10
24/04/2019 (E)	WCS	EMI	5
25/04/2019 (M)	Int Instr /ITC	LCSNX	
25/04/2019 (E)		EMA	44
26/04/2019 (M)		PWSS	£1.
26/04/2019 (E)		SAS	1d
	05	ACS	
Morning Timings:	9:30 AM - 11:00 AM	FCP Hill Sur	
Evening Timings:	2:00 PM – 3:30 PM		1

Morning Timings: 9:30 AM - 11:00 AM Evening Timings: 2:00 PM - 3:30 PM

Note: Students should get a written permission from the undersigned to appear in these examinations and submit a copy of the permission letter to the respective subject coordinators by Monday evening i.e. 22/04/2019.



DF. Neeru Malhotra Associate Professor & Hol)

C/c:

- The Principal for kind information
 Dean (Academics)
 Circulation amount for the 22 Content of the 22
- 3. Circulation amongst faculty members teaching ECE-4th & 6th Semester
- 4. Notice Board (ECE)

DAV Institute of Engineering & Technology, Jalandhar Department of Electronics & Communication Engineering

Program	mme	B. Tech. (ECE)	Semester	5 th		
Subject	Code	BTEC-504-18	Subject title	Control	Systems	
MST		Make-Up Test	Course Coordinator	Ms. Poo	nam Sethi	
Max. M	larks	24	Time Duration	1 Hour 3	30 Minutes	
Date of	MST	16.06.2022 (Shift-II)	Roll No.			
Note: A	ttempt a	Il questions.				
Ques. No.	Question	1			COs, RBT Level	Marks
1	Give an	n example of industrial control syst	em.		CO4, L2	2
2	For a stability	etermine	CO2, L4	2		
3	For a u given, c and uni	nction is unit step	CO2, L4	4		
4	Discuss		CO4, L3	4		
5	Draw N	bility.	CO2, L4	4		
6	Determ Block of gain for Derive second	ine the transfer function C\R for the diagram reduction technique and vertical and e^{-1} for the diagram reduction technique and vertical and e^{-1} for the diagram reduction technique and vertical and e^{-1} for the diagram reduction technique and vertical and vertical and e^{-1} for the diagram reduction technique and vertical an	the system shown in Finerity the answer using T	g. using Mason's mot for a	CO1, L6	8
Course Student 1. 2. 3. 4.	e Outcon ts will be Characte Investig Design v Solve lir	nes (COs): e able to erize a system and find its study st ate stability of a system using diffe various controllers near, non-linear and optimal contro	ate behaviour erent tests ol problems			

Internal Evaluation system followed by the institute as per IKGPTU

Internal Evaluation

Total Internal Marks	: 40	Attendances : <75%	:00
First Mid-term Examination	: 12	Marks breakup: 75% to 80%	: 02
Second Mid-term Examination	: 12	: 81% to 85%	: 03
Attendance	: 06	: 86% to 90%	: 04
Assignments	: 05	: 91% to 95%	: 05
Tutorials	: 05	: 96% to 100%	6:06

Course Exit Survey (Python Programming) Session 21-22

Timestamp	Name	Roll No	Read and	Develop	Define	Perform	Execute
			write	Python	Python	input/out	Searching,
			simple	programs	functions	put	sorting
			Python	with	and to	operation	and
			programs	condition	use	s with	merging
				als and	Python	files in	in Python.
				loops.	data	Python.	
					structures		
					and lists,		
					tuples,		
					dictionari		
					es.		
2022/04/28	Sahil Parmar	222	3	3	3	3	3
2022/04/28	Sahil Syal	221/18	3	3	3	2	2
2022/04/28	Sushant dogra	228/18	3	3	3	3	3
2022/04/28	Manpreet Kaur	1803780	3	2	3	3	2
2022/04/28	Sukhdeep Singh	226/18	3	2	2	3	2
2022/04/28	Muskan Roda	235/18	2	2	3	3	2
2022/04/28	Riya Vinocha	217/18	3	3	3	3	3
2022/04/29	Vatanpreet kau	230/18	3	3	3	3	2

Questionnaire for Student Feedback on Faculty

- **1.** The teacher had the thorough and comprehensive knowledge of subject.
- 2. Soft Skill of subject in-charge in handling of contents?
- **3.** Online learning materials/notes provided by the subject in-charge in enhancing my understanding of the subject?
- 4. The teacher thoroughly answered the student's questions?
- 5. There was positive interaction between students and teacher?
- 6. Quality of work was emphasized more than quantity?
- 7. You were encouraged to do extra reading about the course material?
- 8. The teacher gave assignments that were useful for learning subject matter?
- 9. Students were free to interrupt presentations if points needed clarifications?
- 10. Video, sound quality and duration of video lectures prepared by subject incharge?
- 11. Lectures were held regularly and on time?
- 12. Students were introduced with the relevant information viz, Registration and certification for MOOC based online course as a supplement activity to the course?
- **13.** Students were introduced with the relevant information on "Virtual Labs" for the course?
- **14.** The online teaching technologies used by the subject in-charge in enhancing my understanding of the subject?
- 15. Overall rating of the online teaching activities in this subject?

			FACU	JLTY	FEEDB.	ACK (M	ay 2022)			
			1	Name of D	epartment: ECE					
					students in	No. of students	% of students given	Comments/Suggesti	Overall	
Sr No.	Name of the faculty member	Course	Semester	Subject	class	given feedback	feedback	ons	performance	Rating
1	Dr. Bindiya Jain	B.TECH	6th	WCS	76	51	67%		80.00%	9
2	Dr.Kiran Ahuja/Mr Shaul Goyal	B.TECH	6th	WLAN	25	25	100%		93.00%	10
3	Dr Amit Arora	B.TECH	6th	MWA	76	55	72%		93.00%	10
4	Dr. Love Kumar	B.TECH	6th	OFC	76	57	75%		93.00%	10
5	Dr. Hari Singh	B.TECH	6th	COA	76	54	71%		93.00%	10
6	Mr. Ganesh Chand	B.TECH	6th	CN	76	50	66%		80.00%	9
7	Mr Sahul Goyal	B.TECH	6th	C#	51	33	65%		93.00%	10

С	
-	

		Departmen	t- Electro	onics and Communication Engg. Sem	-4th				
Sr N	o Name of the faculty m	Course	Semest	Subject	of studen	dents giver	dents given	erall performa	Rating
1	Dr.Jagjit Malhotra	B.TECH	4TH	Analog Circuits	35	27	77%	93.00%	9
2	Dr.Jagroop Singh	B.TECH	4TH	Signals and Systems	35	22	63%	95.00%	9
3	Dr.Dinesh Kumar	B.TECH	4TH	Data Structures & Algorithms	35	22	63%	93.00%	9
4	Ms.Poonam Sethi	B:TECH	4TH	Environmental Sciences 🕴	35	22	63%	89.00%	9
5	Dr.Hari Singh	B.TECH	4TH	Microprocessors and Microcontro	35	23	66%	95.00%	9
6	Mr.Ashish Malhotra	B.TECH	4TH	Universal Human Values – 2	35	22	63%	95.00%	10

Au esh Boelhur Ruiesh Boelhur Alus (All Neeur Malhota, HoD, ECE

r

ł

Prof. (Dr.) Vikas Chawla Dean (Academics)



איצו. מֿ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ Estd. Under Punjab Technical University Act, 1996 (Punjab Act No.1 of 1997)

Ref. No. 1KGPTU/DD/2904

Dated_22/06/2

Principal D A V Institute of Engineering and Technology, Kabir Nagar, Jalandhar

Subject: Appreciation letter for the conduct of the Online Classes during on-going Covid-19 pandemic

Sir/Madam,

Greetings from IKGPTU !

At the outset, I hope that all will be safe and healthy at your esteemed institution during this Covid-19 pandemic.

Further, in compliance to our letter No. IKGPTU/DA/2832 dated 19-05-2021; your good office has submitted the links of online classes along with the timetable of courses of the current semester in the prescribed format for virtual inspection by the University inspection team.

I understand that online teaching during this pandemic is a huge task for all the educational institutions. I am really glad to share with you that during virtual inspection by our inspection team, the report of your esteemed institute regarding conduct of online classes have been found satisfactory. The timetable of conduct of online classes has been prepared very meticulously by the team of your faculty members under your able guidance. The inspection team of the University is impressed with the teaching methodology of your faculty during the online classes. I really appreciate the way in which your faculty members are putting in a lot of effort to conduct online classes in an innovative way and also grab the attention of the far-flung students. Your institute has done a commendable job by providing quality education (by virtual mode also) to our budding students.

At the end, I extend my best wishes to your institute, faculty and staff who are earnestly doing their duty during these difficult times of Covid-19 pandemic and hope that your institute will continue this in future also for the benefit of the students and society.

With Regards,

Prof.(Dr.) Vikas Chawla Dean (Academics)

"Propelling Punjab to a Prosperous Knowledge Society"

I. K. Gujral Punjab Technical University

Jalandhar-Kapurthala Highway, Kapurthala -144 603 Ph.: 01822-282562 Email : vikas.chawla@ptu.ac.in, deanacad@ptu.ac.in Website : www.ptu.ac.in 68 <u>Teachers of the Institution participate in activities related to curriculum development and assessment of the affiliating</u> <u>University and/are represented on the following academic bodies during the last five years</u>

Session Name of teacher participated		Name of the body in which full time teacher participated				
2017-19	Dr. Sudhir Sharma	Member, BoS, IKG Punjab Technical University, Jalandhar				
2017-19	Dr. Jagroop Singh Sidhu	Member, BoS(ECE), IKG Punjab Technical University, Kapurthala				
2017-19	Dr. Kanchan L Singh	BoS (Physical Sciences), IKG Punjab Technical University, Jalandhar				
2017-19	Dr. Ashok Kumar	BoS (Chemical Sciences), IKG Punjab Technical University, Jalandhar				
2017-19	Dr. Dinesh Kumar	BoS CSE, IKG Punjab Technical University, Kapurthala				
2017-19	Dr. Sanjeev Naval	Member of BoS for Civil Engineering, MRSPTU, Bathinda				
2017-18	Dr. Love Kumar	Member, BoS Department of Electronics, Kanya Maha Vidyalaya, Jalandhar				
2018-19	Dr. Devinder Priyadarshi	BoS (Mechanical Engg. / Production Engg.), IKG Punjab Technical University, Jalandhar				
2019-21	Dr. Manoj Kumar	Chairman, BoS(ECE), IKG Punjab Technical University, Kapurthala				
2019-21	Dr. Jagjit Malhotra	Member, BoS(ECE), IKG Punjab Technical University, Kapurthala				
2019-21	Dr. Harpreet Kaur Bajaj	Member, BoS (CSE), IKG Punjab Technical University, JALANDAHR				
2019-21	Dr. Devinder Priyadarshi	BoS (Mechanical Engg. / Production Engg.), IKG PTU Jalandhar				
2019-21	Dr. Sanjeev Naval	Member of BoS for Civil Engineering, Environmental Science and Engg of IKG PTU Jalandhar				
2019-21	Dr. Sanjay Goel	Member of BoS for Civil Engineering, Environmental Science and Engg of IKG PTU Jalandhar				
2019-21	Dr. Kanchan L Singh	BoS (Physical Sciences), IKG Punjab Technical University, Jalandhar				
2019-21	Dr. Ashok Kumar	BoS (Chemical Sciences), IKG Punjab Technical University, Jalandhar				
2019-21	Dr. Dinesh Kumar	BoS CA, IKG Punjab Technical University, Kapurthala				
2021-22	Dr. Manoj Kumar	Member, BoS(ECE), IKG Punjab Technical University, Kapurthala				
2021-22	Dr. Jagjit Malhotra	Member, BoS(ECE), IKG Punjab Technical University, Kapurthala				
2021-22	Dr. Devinder Priyadarshi	BoS (Mechanical Engg./ Production Engg.), IKG PTU Jalandhar				
2021-22	Dr. Harpreet Kaur Bajaj	Member, BoS (CSE), IKG Punjab Technical University, JALANDAHR				
2021-22	Dr. Kanchan L Singh	BoS (Physical Sciences), IKG Punjab Technical University, Jalandhar				
2021-22	Dr. Ashok Kumar	BoS (Chemical Sciences), IKG Punjab Technical University, Jalandhar				
2021-22	Dr. Sanjeev Naval	Member of BoS for Civil Engineering, Environmental Science and Engg of IKG PTU Jalandhar				
2021-22	Dr. Sanjay Goel	Member of BoS for Civil Engineering, Environmental Science and Engg of IKG PTU Jalandhar				
2021-22	Mr. Nitesh Thakur	Member of BoS for Hotel Management, Tourism and Travel Management, IKG PTU Jalandhar				

<u>Teachers of the Institution participate in activities related to curriculum</u> <u>development and assessment of the affiliating University and /are represented</u> <u>on Academic council/BoS of affiliating university during the last five years</u>

IK Gujral Punjab Technical University Notification

Ref. No .: |KG PTU/Reg | NF/26

Date: 01/03/17

The Vice Chancellor of the IK Gujral Punjab Technical University is please to constitute the following Board of studies for a period of two years from the date of notification. The board of studies shall be under the guidance of concerned Faculties headed by Dean, Faculty. Board of studies listed in Part-A, shall function under the chairmanship of Head of Concerned Teaching Departments in the University Campus. In subjects for which Teaching Department are yet to be established in the University Campus as listed in Part-B, shall continue to function under the supervision of Dean (Academics) with one internal faculty member as BOS coordinator from IKGPTU internal system.

Part-A

	Name	Address	Phone	Email ID
Chairman (Ex-officio)	Dr. Y.S Brar	Head, Department of ECE, IKGPTU, Kapurthala	9478098013	braryadwinder@yahoo.co.in
Professors	Dr. Raja Singh Khela	DIET, Kharar	0160-5032525	qifoundaion@gmail.com
	Dr. Pramod Aggarwal	IIT, Roorkee	9927017873	dean.acadres@iitr.ac.in
	Dr. Shiv Narayan	PEC, Chandigarh	9417061712	shivnarayan@pec.ac.in
Associate Professors	Dr. Gagandeep Kaur	IKGPTU, Kapurthala	9478098118	gaganpitk@gmail.com
	Dr. Kanwardeep Singh	GNDEC, Ludhiana	9501411533	Kds97dee@gmail.com
	Dr. Sudhir Sharma	DAVIET, Jalandhar	0181-227650	Ss_daviet@yahoo.co.in
Assistant Professors	Dr. Jaspreet Singh Chahal	IKGPTU, Kapurthala	9465884841	jschahal@ptu.ac.in
	Dr. Deepika Bhalla	IKGPTU, Kapurthala	7508540590	deppikbhalla89@gmail.com
	Dr. Navneet Singh Bhangu	GNDEC, Ludhiana	9872827229	navneetbhangu@gndec.ac.in
Outside	Dr. Yogesh Vijay Hote	IIT, Roorkee	01332-285134	yhotefee@iitr.ac.in
experts	Dr. S. Gosh	Thapar University, Patiala	9872710783	smarajitg@hotmail.com
	Dr. Chakradhar Reddy	IIT, Ropar	9417034192	reddy@iitrpr.ac.in
Training Placements	S. Navdeepak Sandhu	IKGPTU, Kapurthala	9478098040	placements.ptu@gmail.com
Industrial Representative	CII Nominee	To be nominated by 0	CII	

1. Board of Studies, Electrical Engineering

1-1 1/3/14.

Page 1 of 18

	Name	Address	Phone	Email ID
Chairman (Ex-officio)	Dr. Avtar Singh Buttar	Head, Department of ECE, IKGPTU, Kapurthala	9478098153	danshavtar@redifmail.com
Professors	Dr. Sandeep Singh Gill	GNDEC, Ludhiana	9814801718	g@gndec.ac.in
	Dr. Charanjit Singh	RBIET, Hoshiarpur	9463569976	rbcentwh@rayatbahra.com
	Dr. Harbhajan Singh	SSIET, Derabssi	94174-23524	drharbhajansingh@gmail.com
Associate	Dr. Satbir Singh	IKGPTU, Kapurthala	9465884850	drsatbir.in@gmail.com
Professors	Dr. Jagroop Singh sidhu	DAVIET, Jalandhar	9915749651	roopasidhu@gmail.com
	Dr. Jaswinder Singh	BCET, Gurdaspur	9855550667	jaswinder.ece@bcetgsp.ac.in
Assistant	Dr. Dalveer Kaur	IKGPTU, Kapurthala	9478098066	Dn_dogra@redifmail.com
Professors	Dr. Rakesh Goyal	IKGPTU, Kapurthala	9988834220	errakeshgoyel@gmail.com
	Dr. Amit Gupta	IKGPTU, Kapurthala	9872223212	Amitgupta45@hotmail.com
Outside	Dr. Nina Gupta	PEC, Chandigarh	9815503245	Ng65@redifmail.com
Experts	Dr. Dharminder Singh	IIT, Rorkee	01332285695	dharmtec@iitr.ac.in
	Dr. A.K. Charterjee	Thapar University	9876389932	akchaterjee@thaper.edu
Training Placements	S. Navdeepak Sandhu	IKGPTU, Kapurthala	9478098040	placements.ptu@gmail.com
Industrial Representativ e	CII Nominee	To be nominated by C	II, President	

2. Board of studies, Electronics and Communication Engineering

5.	Board of Studies,	Physical	Sciences	(Material	Science/	Nano science	and	Technology)	
----	-------------------	----------	----------	-----------	----------	--------------	-----	-------------	--

	Name and Designation	Addresses	Phone	Email ID	
Chairman (Ex-officio)	Dr. Amit Sarin	Head, Physical Sciences, IKGPTU, Kapurthala	9872998760	amit.sarin@yahoo.com	
Professors	Dr. Devinder Mehta	PU, Chandigarh	9815973101	dmehta@pu.ac.in	
	Dr. R.K. Bedi	SIET, Amritsar	9814729284	rkbedi2008@gmail.com	
	Dr. Rakesh Dogra	BCET Gurdaspur	9872150166	rakesh.as@bcetgsp.ac.in	
Associate	Dr. Harpreet Kaur Garewal	GNDEC Ludhiana	9815657551	hkgrewal@gndec.ac.in	
	Dr. Arvind Kumar	BCET, Gurdaspur	9872615601	arvind.as@bcetgsp.ac.in	
	Dr. Kanchan L singh	DAVIET, Jalandhar	9914001756	kanchan_69@rediffmail.com	
Assistant	Dr. Hitesh Sharma	IKGPTU, Kapurthala	9478098060	dr.hitesh@ptu.ac.in	
Professors	Dr. Maninder Kaur	IKGPTU, Kapurthala	9915591468	Manisaini153@gmail.com	
	Dr. Rajiv Malhotra	BCET, Gurdaspur	9876114979	Rajeev_bcet@yahoo.co.in	
Outside Experts	Dr. Ranjan Kumar	PU, Chandigarh	8283084499	p.arumugam@gmail.com	
(11)	Dr. R. Armugam	IIT, Roorkee	8979890366	gdvarfph@iitr.ac.in	
	Dr.B.D. Gupta	IIT, Delhi	011-26591355	bdgupta@physics,iitd.ac.in	
Training Placements	S. Navdeepak Sandhu	IKGPTU -Kapurthala	9478098040	placements.ptu@gmail.com	
Industrial Representative	CII Nominee	To be nominated by CII			

6. Board of Studies, Chemical Sciences

	Name and Designation	Addresses	Phone	Email ID	
Chairman (Ex-officio)	Dr. Gaurav Bhargava	Head, Department of Chemical Sciences IKGPTU, Kapurthala	9478098058	gauravorganic@gmail.com	
Professors	Dr. R.K. Mahajan	GNDU, Amritsar	9872856579	Rakesh_chem@yahoo.com	
	Dr. R.P. Singh Grewal	GNDEC, Ludhiana	9815298388	Spsinghgrewal@gmail.com	
	Dr. Neeraj Kumar	CEC, Landran	9316162615	Kumarnk31@gmail.com	
Associate	Dr. Gurjaspreet Singh	PU, Chandigarh	9814302099	gjpsingh@pu.ac.in	
Professors	Dr. Ashok Kumar	DAVIET, Jalandhar	9915378828	dryadavashok@gmail.com	
	Dr. Anju Awasthi	BCET, Gurdaspur	88727-00517	anju.as@bcetgsp.ac.in	

Ma.

Page 4 of 18

Page 3
IKG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR **Minutes of Meetings**

A meeting of Board of Studies, Computer Science Engineering, was scheduled on 6th July 2017 at 11.30 a.m. in Seminar Hall, 2nd floor, Dept. of Academics, IKGPTU, Kapurthala. The agenda of the meeting was to discuss and finalize:

- Scheme and syllabi for M.Tech. (Big Data Analytics) 2016 batch
- Scheme and syllabi for M.Tech. (Computer science and Engineering) 2017 batch
- Scheme for B. Tech. (Computer science and Engineering) 2017 batch
- Equivalence of Ph. D. in Computer Applications with Ph. D in Computer Sc. and
- Engineering
- Any other matter with the permission of chair

Following Members were Present at the meeting:

- Dr. Monika Sachdeva, IKGPTU Main Campus, Chairman (Ex-officio)
- Dr. Akshay Girdhar, Professor, GNDEC, Ludhiana
- Dr. Baljit Singh, Professor, BBSEC, Fatehgarh Sahib Dr. Rajesh Bhatia, Panjab Technology University, Chandigarh, outside Expert
- Dr. Krishan Saluja, Panjab University, Chandigarh, outside Experi
- Dr. R.C. Gangwar, Associate Professor, BCET, Gurdaspur
- Dr. S.K. Gupta, Associate Professor, BCET, Gurdaspur
- Dr. Dinesh, Associate Professor, DAVIET, Jalandhar
- Dr. Anshu Bhasin, IKGPTU Main Campus. Member
- Dr. Sumesh Sood, IKGPTU Dinanagar campus, Member
- Dr. Raman, IKGPTU Dinanagar Campus, Member
- Mr. Vipin, Industry Expert, Special Invitee

Following members could not attend the meeting:

Dr. Parminder Singh, Professor, GNDEC, Ludhiana

Dr. Harsh Verma, NIT, Jalandhar, outside Expert Mr. Navdeepak Sandhu, Training and Placements, IKGPTU, Kapurthala

The Board took the agenda and following decisions were taken.

- 1. The scheme and syllabi for M Tech (Big Data Analytics) has been approved.
- The scheme for M Tech (CSE) for the batch 2018 has been finalized. 3. Every student has to earn 20%-25% credits through MOOCs courses. The department will decide the
- equivalency of existing courses with the MOOCs courses for online learning.
- An open elective may be introduced in third semester of M. Tech. (CSE).
- 5. Evaluation criteria for evaluating M. Tech. dissertation may be as follows:
 - a. Papers published in SCI/SCIE journals may be assigned grade 'O'.
 - Papers published in SCOPUS indexed journals may be assigned grade of the same assigned above grade "A+". Papers published in UGC approved journal list not covered a IEEE/Springer/ACM/Proceedia may not be assigned above grade "A". and covered above b.
 - c.
- d. Other grades may be assigned based on the performance of students below grade "A". 6. Due to shortage of time the scheme of B. Tech. (CSE) could not be taken up. However, the board was of
- opinion that a course "Soft Skills (covering all placement pre-requisites)" may be introduced from third
- The committee strongly recommended workshops/short term courses on latest technologies due to major 7. revisions in both B. Tech. and M. Tech. curriculum.
- The board was of view that Ph.D. in Computer Applications may be considered equivalent to Ph.D. in
- Computer Science. However, it'should be considered under Faculty of Sciences.

of 2