Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
			'-cteristics, P	
42	09/11/2023	I	faraday Rotation,	
43	10/11/2023	II	Ferrite components – Gyrator,	
44	11/11/2023	IV	Isolator,	
			scattering matrix-	
45	14/11/2023	IV	scattering matrix properties,	
46	16/11/2023	III	Directional couplers – 2 Hole,	
47	17/11/2023	II	Bethe Hole,	
48	18/11/2023	VI	[S] matrix of Magic Tee and circulator.	
			Microwave Measurements-	
49	20/11/2023	III	Description of microwave Bench- Different Blocks and their features,	
50	21/11/2023	IV	errors and precautions,	
51	22/11/2023	I	measurement of Attenuation, frequency.	
52	25/11/2023	V	standing wave measurements,	
53	28/11/2023	II	measurement of low and High VSWR,	
54	29/11/2023	I	cavity Q,	
55	29/11/2023	IV	Impedance measurements,	
			optical fiber Transmission modes-	
56	30/11/2023	II	optical fiber types,	
57	30/12/2023	IV	Light propagation,	
58	1/12/2023	V	optical fiber configurations,	
59	1/12/2023	VI	optical fiber classifications,	
60	2/12/2023	IV	Losses in optical fiber cables,	
61	2/12/2023	I	Light sources,	
62	4/12/2023	III	optical sources	
63	4/12/2023	II	Light Detectors	
64	5/12/2023	V	LASERS,	
65	5/12/2023	IV	WDM concepts,	

Teaching Diary
2022-23

Measurements and Instrumentation

Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
	10/9/22	1	Unit I: Introduction to Measur-	
	12/9	1	ing Instruments & types.	
	13/9-14/9	2	classification-deflecting, control	
	14		and damping torques, Ammeters	
	15/9-19/9	3	and voltmeters, PMMC, MI type	
			instruments, expression for the	
			deflecting torque and control	
	20/9	1	torque, Errors and compensations,	
	26/9-26/9	3	extension of range using Shunts	
			and series resistance, electro-	
	27/9-29/9	3	static voltmeters, electro-	
			meter type and attracted disc	
			type, extension of range of	
			E.S. Voltmeters.	
	1/10	1	Numericals	
	10/10/22	1	Unit II: potentiometers and	
			Instrument transformers.	
	11/10/22-17/10	3	Principle and operation of D.C.	
			Crompton's potentiometer, Stand-	
			ardisation, Measurement of	
			unknown resistance, current,	
	18/10-27/10	5	voltage, A.C. potentiometers.	
			Polar and coordinate types,	
			Standardisation, applications.	
	29/10-3/11	5	C.T. and P.T. Ratio and	
			Phase angle errors.	
	5/11/22	1	Numericals	
	7/11/22	1	Unit III: Measurement of	
			Power and Energy	
	7/11-19/11	8	1-ϕ dynamometer wattmeter, LPF	
			and UPF, double element and 3	
			element dynamometer wattmeter,	
			expression for deflection and	

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Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
			control torques, extension of range of wattmeter using instrument transformers.	
	21/11 – 23/11	3	Measurement of active and reactive powers in balanced and unbalanced systems.	
	24/11 – 28/11	3	1-ϕ induction type energy meters driving and braking torques, errors and compensations, testing by phantom loading using R.S.S. meter, 3-ϕ energy meter, tri-vector meter, maximum demand meters.	
	29/11 – 30/11	2		
	1/12/22	1	Numericals	
	3/12/22	1	Unit IV : DC & Ac Bridges.	
	5/12/22	1	Method of measuring low, medium and high resistance,	
	6/12 – 10/12	4	Sensitivity of wheat-stone's bridge, Carey Foster's bridge, Kelvin's double bridge for measuring low resistance,	
	12/12	1	measurement of high resistance - loss of charge method.	
	13/12 – 15/12	3	Measurement of inductance - Maxwell's bridge, Hay's bridge Anderson's bridge, Owen's bridge.	
	17/12 – 21/12	4	Measurement of capacitance and loss angle: Desauty's bridge, Klien's bridge, Schering bridge	
	22/12	1	Numericals	
	24/12/22	1	Unit 5 - Transducers	
			Definition of transducers, Classification of transducers.	

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Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
			advantages of electrical	
	27/12-28/1	2	transducers, cl's and choice	
			of transducers, principle operation	
	29/12-4/1	5	of LVDT and capacitor transducers,	
			LVDT applications, Strain gauge	
			and its principle of operation	
			gauge factor, Thermistors,	
	5/1-7/1	3	Thermocouples, piezo electric	
			transducers, photo voltaic,	
			photo conductive cells and photo	
			diodes.	
	8/1-11/1	6	Introduction to smart and	
			Digital ~~Marketing~~ metering;	
			Digital Multi-meter, True	
			RMS meters, clamp-on meters	
			Digital storage oscilloscope.	
	12/1/23	2	Revision.	

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Cloud Computing

Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
1	5/8/2022	UNIT-I V	High-performance computing	
2	8/8/2022	IV	parallel computing	
3	10/8/2022	VII	Distributed computing	
4	13/8/2022	I	cluster computing	
5	17/8/2022	VII	Grid computing	
6	20/8/2022	I	cloud computing	
7	23/8/2022	II	Bio computing	
8	24/8/2022	VII	Mobile computing	
9	26/8/2022	V	Quantum computing	
10	29/8/2022	IV	Optical computing	
11	30/8/2022	II	Nano computing	
12	2/9/2022	UNIT-2 V	Motivation for cloud computing	
13	5/9/2022	IV	The Need for cloud computing	
14	6/9/2022	II	Defining a cloud computing	
15	9/9/2022	V	Definition of cloud computing	
16	12/9/2022	IV	cloud computing is a service	
17	14/9/2022	VII	cloud computing is a platform	
18	16/9/2022	V	principles of cloud computing	
19	19/9/2022	IV	Five Essential characteristics	
20	21/9/2022	VII	Four cloud Deployment Models	
21	23/9/2022	UNIT-3 II	cloud Architecture	
22	10/10/2022	IV	Layers	
23	12/10/2022	VII	Anatomy of the cloud	
24	14/10/2022	V	Network connectivity in cloud computing	
25	18/10/2022	II	Applications on the cloud	
26	21/10/2022	V	Managing the cloud Infrastructure	
27	28/10/2022	V	Managing the cloud Application	
28	31/10/2022	IV	Migrating Application to cloud	
29	7/11/2022	IV	Phases of cloud Migration Approaches	
30	9/11/2022	VII	for cloud Migration	
31	11/11/2022	UNIT-4 V	Infrastructure as a service	
32	12/11/2022	I	Characteristics of IaaS	
33	14/11/2022	IV	Suitability of IaaS	

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Sl. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
34	15/11/2022	II	Proc and cons of Paas	
35	16/11/2022	VII	Summary of Paas providers	
36	18/11/2022	V	platform as a service	
37	19/11/2022	I	characteristics of Paas	
38	22/11/2022	II	Suitability of paas	
39	23/11/2022	VII	pros and con's of paas	
40	25/11/2022	V	Summary of paas provider	
41	26/11/2022	I	Software as a service	
42	28/11/2022	IV	characteristic of saas	
43	29/11/2022	II	Suitability of saas	
44	30/11/2022	VII	pros and cons of saas	
45	2/12/2022	V	Summary of saas providers	
46	3/12/2022	UNIT-5 I	EMC	
47	5/12/2022	IV	EMC IT	
48	6/12/2022	II	captiva cloud Toolkit	
49	7/12/2022	V	Google	
50	9/12/2022	VI	cloud platform	
51	10/12/2022	I	cloud storage	
52	12/12/2022	IV	Google cloud connect	
53	13/12/2022	II	Google cloud print	
54	14/12/2022	VII	Gogle App Engine	
55	16/12/2022	V	Amazon web service	
56	17/12/2022	I	Amazon Elastic compute cloud	
57	19/12/2022	IV	Amazon simple storage service	
58	20/12/2022	II	Amazon simple Queue service	
59	21/12/2022	VII	Microsoft	
60	23/12/2022	V	windows Azure	
61	24/12/2022	II	Microsoft Assessment & planning Toolkit	
62	28/12/2022	VII	share point	
63	30/12/2022	V	IBM	
64	31/12/2022	I	cloud Models	
65	2/1/2023	IV	IBM smart cloud	
66	3/1/2023	II	Applabs.	

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