



**SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHA
VIDYALAYA**
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : K.SARASWATHI
Designation : ASSISTANT PROFESSOR
Department : EIE
Subject : ANALYTICAL INSTRUMENTATION
Year / Semester : III/V

LECTURE PLAN

Sl. No	Day	Topics to be Covered	Date
1.	1	Introduction to Analytical Instruments and Spectrophotometer. Beer-Lambert Law.	10.8.2020
2.	2	UV Visible spectrophotometers – single beam and double beam method of Instrumental arrangements.	12.8.2020
3.	3	Working of various types of Sources used for UV Visible spectrophotometers.	13.8.2020
4.	4	Working of various types of Detectors used for UV Visible spectrophotometers.	14.8.2020
5.	5	IR Spectrophotometer and its types.	17.8.2020
6.	6	Atomic absorption Spectrophotometer-working.	19.8.2020
7.	7	Attenuated Total Reflection Flame Photometer-working.	20.8.2020
8.	8	FTIR Spectrophotometer-working.	22.8.2020

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LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : Dr. T. SUNDAR

Designation : ASSISTANT PROFESSOR

Department : ELECTRONICS AND INSTRUMENTATION ENGINEERING

Subject : INSTRUMENTATION AND CONTROL IN PETROCHEMICAL INDUSTRIES (ELECTIVE - II)

Year / Semester : 4TH YEAR / 7TH SEMESTER

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Introduction of Petrochemical Industries, Distillation columns, Distillation equipment	11-08-2020
2.	2.	Variables and degrees of freedom	12-08-2020
3.	3.	Measurement and control of column pressure, liquid distillate	14-08-2020
4.	4.	Vapour distillate and inserts	15-08-2020
5.	5.	Control of feed in reboiler and reflux	18-08-2020
6.	6.	Cascade and feed forward controls	19-08-2020
7.	7.	Instrumentation and control in chemical reactors	21-08-2020
8.	8.	Temperature and pressure control in batch reactors	22-08-2020

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LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : JANANI R
Designation : ASSISTANT PROFESSOR
Department : ELECTRONICS AND INSTRUMENTATION ENGINEERING
Subject : VIRTUAL INSTRUMENTATION (ELECTIVE)
Year / Semester : 4TH YEAR / 7TH SEMESTER

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Graphical System Design Model	10-08-2020
2.	2.	Virtual Instrument and Traditional Instrument	12-08-2020
3.	3.	Hardware and Software in Virtual Instrumentation	13-08-2020
4.	4.	Virtual Instrumentation in the Engineering Process	15-08-2020
5.	5.	Graphical Programming and Textual Programming	17-08-2020
6.	6.	Introduction to LabVIEW	19-08-2020
7.	7.	Software Environment Creating and Saving a VI	20-08-2020
8.	8.	Front Panel and Block Diagram Toolbar	22-08-2020

(20/July/2020)

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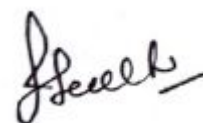
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LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : Dr. T.Lakshmibai
Designation : A.P
Department : EIE
Subject : Sensors and Actuators
Year / Semester : II/III

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Introduction – Syllabus flow	10-08-2020
2.	2.	Difference between sensor, transmitter and transducer; characteristics: Range, resolution, Sensitivity, error	11-08-2020
3.	3.	Characteristics: repeatability, linearity and accuracy, impedance, backlash, Response time, Dead band.	13-08-2020
4.	4.	Signal transmission - Types of signal: Pneumatic signal; Hydraulic signal; Electronic Signal.	14-08-2020
5.	5.	Primary measuring elements	17-08-2020
6.	6.	Principle of operation, construction details, characteristics and applications of Potentiometer, Proving Rings	18-08-2020
7.	7.	Strain Gauges	20-08-2020
8.	8.	Resistance thermometer, Thermistor	21-08-2020



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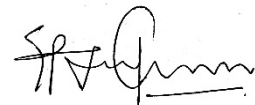
LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : Dr.G. Padmanabha Sivakumar
Designation : Assistant Professor
Department : EIE
Subject : Embedded Systems
Year / Semester : IV/VII

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Embedded Systems- Definition, Types, Characteristics & Challenges	10-08-2020
2.	2.	Designing of Embedded Systems & Embedded Environment.	11-08-2020
3.	3.	Embedded Networking & Processors- Types	13-08-2020
4.	4.	8051 Processor- Architecture, Instruction Set	14-08-2020
5.	5.	ARM Architecture Discussion	17-08-2020
6.	6.	ARM Instruction set - Overview	18-08-2020
7.	7.	ARM Programming Basics	20-08-2020
8.	8.	Communication & IO Types	21-08-2020

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(Dr G P Sivakumar)



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LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name : S S SARAVANA KUMAR
Designation : ASSISTANT PROFESSOR
Department : EIE
Subject : ELECTRONIC DEVICES & CIRCUITS
Year / Semester : II/III

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Semiconductor fundamentals, Energy Band Diagram, Intrinsic and Extrinsic semiconductors	10-08-2020
2.	2.	Working and description of PN diode and Varactor Diode	12-08-2020
3.	3.	Working and description of Zener diode, Avalanche Breakdown and Zener breakdown	13-08-2020
4.	4.	Photo diode, photo voltaic cell, LED	14-08-2020
5.	5.	LCD & LDR	17-08-2020
6.	6.	Principle of transistor action, cut off, active and saturation regions of a transistor	19-08-2020
7.	7.	CE, CB and CC configurations	20-08-2020
8.	8.	Transistor as a switch and use of a heat sink	21-08-2020

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LECTURE PLAN FOR ONLINE CLASS (10.08.2020 TO 22.08.2020)

Faculty Name :K.Sugapriya
Designation : Assistant Professor
Department :Electronics and Instrumentation Engineering
Subject :Control Systems
Year / Semester : III year /Vsemester EIE and Mechatronics Engineering

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1	Introduction to control problem, Open loop systems and Closed loop systems	10/08/2020
2.	2	Block diagram of a feedback system	11/08/2020
3.	3	Block diagram algebra problems	13/08/2020
4.	4	Mason's gain rule explanation	15/08/2020
5.	5	Signal flow graph problem	17/08/2020
6.	6	Linear Time Invariant system (LTI)	18/08/2020
7.	7	LTI system Transfer function model	20/08/2020
8.	8	Mathematical model of Physical system	22/08/2020

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K.Sugapriya 20/07/2020



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Faculty Name : N C A BOOVARAHAN
Designation : ASSISTANT PROFESSOR
Department : EIE
Subject : POWER PLANT INSTRUMENTATION
Year / Semester : III/V

LECTURE PLAN

Sl.No	Day	Topic to be Covered	Date
1.	1.	Brief survey of methods of power generation hydro, nuclear and solar power	11-08-2020
2.	2.	Thermal power generation	12-08-2020
3.	3.	Wind power generation and importance of instrumentation in power generation	14-08-2020
4.	4.	Thermal power plants , Building blocks	15-08-2020
5.	5.	Details of boiler processes UP & I diagram of boiler	18-08-2020
6.	6.	Co generation	19-08-2020
7.	7.	Electrical measurements Current, voltage, power, frequency, power factor etc	21-08-2020
8.	8.	Non electrical parameters	22-08-2020

20-07-2020

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