PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2021-2022

Discipline: Electrical Engg. (SEEA) Engg. Semester: 4th

Name of the Teaching Faculty: Niranjan Behera

Analog Ckt. & OP-amp

Subject: Electrical Analog ETC & Op-amp No. of Days/per week class allotted 04

Semester From Date : 10-03-2022 To Date : 30-06-2022 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
11-03-2022	P-n junction diode	P-n junction diode	P-n junction diode	
12-03-2022	Working of diode	Working of diode	Working of diode	
15-03-2022	V-I Character of diode	V-I Charact of diode	V-I Charact of diode	
16-03	DC load line	DC load line	DC load line	
22-03	Ideal diode Knee voltage Breakdown voltage	Ideal diode Knee voltage Breakdown voltage	Ideal diode Knee & Break down voltage	
23-03	Clipping and clamping ckt	Clipping and clamping ckt	Clipping and clamping ckt	
25-03	Thermistor, sensor and barretter	Thermister Sensor and barretters	Thermisters Sensor and barretters	
26-03	Zener diode	Zener diode	Zener diode	
29-03	Tunnel diode	Tunnel diode	Working and application of tunnel diode	
02-04	PIN diode	PIN diode	PIN diode	
05-04	Revision of chapter-I	Revision of chapter-I	Revision of chapter-I	

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06-04	Rectifier	Rectifier	Rectifier and classification of ICs	
08-04	Half-wave rectifier	Half-wave rectifier and efficiency	Half-wave rectifier and efficiency	
09-04	Center-tapped fullwave rectifier	Center tapped FWR	Center tapped FWR	
12-04	Bridge type FWR	Bridge type FWR	Bridge type FWR	
13-04	Efficiency and ripple factor of FWR	Efficiency and ripple factor of FWR	Efficiency and ripple factor of FWR	
15-04	Filter and types	Filter and its types	Filter. LC filter.	
16-04	Bi-Polar junction trans. (BJT)	BJT	BJT and Construction	
19-04	Mode of operation of transistor	Mode of operation of transistor	Active, Saturation Cut-off and Inverted region	
20-04	Transistor working	Transistor working	Transistor working	
22-04	Transistor as an amplifier	Transistor as an amplifier	Transistor as an amplifier	
23-04	Current component in a transistor	Current component in a transistor	Current component in a transistor	

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24-04-2022	Transistor Configuration C-B Con	Transistor Configuration C-B	Transistor Configuration CB	
26-04	C-E Configuration	CE Configu	CE Configuration and B	
27-04	CC Configuration	CC Config	CC Config	
29-04	Transistor Biasing	Transistor Biasing	Transistor Biasing	
30-04	Stabilization	Satabilization	Stabilization	
01-05	Stability factor	Stability factor	Stability factor	
04-05	Types of Biasing	Types of Biasing	Types of Biasing	
06-05	Base resistor Biasing	Base resistor Biasing	Base register Biasing	
07-05	Feedback resistor biasing	Feedback resistor biasing	Feedback resistor biasing	
10-05	voltage divider biasing	voltage divider biasing	voltage divider bias	
11-05	Practical Cut of transistor amp	Practical cut of transistor amp	Practical Cut of transistor amp	

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13-05	DC load line and DC equivalent	DC load line and DC equivalent	DC load line and DC equivalent	
14-05	AC load line and AC equivalent	AC load line and AC equivalent	AC load line and calculation of gain	
17-05	Phase reversal H-parameter of transistor	Phase reversal H-parameter of transistor	Phase reversal H-parameter of transistor	
18-05	Simplified H-Parameter of transistor	Simplified H Parameter of transistor	Simplified H parameter of transistor	
20-05	Analysis of CB, CE & CC using generalised approx mode	Analysis of CB, CE & CC using approx mode	Analysis of CB, CE & CC approx mode	
21-05	Multi-Stage transistor amplifier	Multi-Stage transistor amplifier	Multi-Stage transistor amplifier	
24-05	R-C coupled and transistor coupled amp	R-C coupled and transistor coupled amp	R-C coupled and transistor coupled amp	
25-05	Feedback ampl. Negative feedback	Feedback amp Negative feedback	Feedback amp Negative feedback	
28-05	Power amplifier and classifi	Power amplifier and classificati	Power amplifi and classificati	
31-05	Transformer coupled class-A amp	Transformer coupled class A amp	Transformer coupled class A amp	
01-06	Oscillators & types	Oscillator and type	Oscillator and type	

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03-06	Different types of OSCI	Different type of OSCI	Different type of OSCI	
04-06	Filed effect transistor (FET)	FET	FET	
05-06	Advantage of FET over BJT	Advantage of FET over BJT	Advantage of FET over BJT	
07-06	Principle of operation of FET	Principle of operation of FET	Principle of operation of FET	
08-06	FET Parameter	FET parameter	FET parameter	
10-06	Biasing of FET	Biasing of FET	Biasing of FET	
11-06	OP-amp	OP-amp	OP-amp and Block diag of OP-amp	
12-06	Open loop OP-amp	Open-loop OP-amp	Open-loop OP-amp	
17-06	Revision of FET	Revision of FET	Revision of FET	
18-06	Closed loop OP-amp	Closed loop OP-amp	Closed loop OP-amp	
21-06	Inverting and Non-inverting OP-amp	Inverting and Non-inverting OP-amp	Inverting and Non-invert. OP-amp	

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22-06	Adder or Summing amplifier	Adder or Summing amplifier.	Adder or Summing amplifier	
24-06	Subtractor Integrator	Subtractor and Integrator	Subtractor and Integrator	
25-06	Differentiator and comparator	Differentiator and Comparator	Differentiator and Comparator	
26-06	Revision of op-amp	Revision of op-amp	Revision of op-amp	
28-06	Revision and Question discussion	Revision and Question discussion	Revision and question discussion.	