

**ROUTINE  
DEPARTMENT OF ELECTRONICS  
W.E.F.: AUGUST, 2022**

	10.15AM	11.00AM	11.45AM	12.30PM	1.15PM	2.00PM	2.45PM	3.30PM	4.15PM	5.00PM
<b>Monday</b>			SEM-I (AS) SEM- III(MC) ←	SEM-I (AS) SEM- III(MC) SEM-V PRAC (KS) →	SEM-III (MC) ® →	SEM-V (AS) ←	SEM-V (AS) ←	←	SEM-III PRAC (MC/KS) →	
<b>Tuesday</b>	SEM-I (AS) ←	SEM-I (AS) SEM- III PRAC (KS) SEM-V (SKB)	→ SEM-V (SKB)	SEM-III (SKB) SEM-V (KS)	SEM-III(SKB) SEM-V (KS)	←	SEM-V PRAC (SKB/KS)	SEM-III(RS) →	SEM-III(RS)	
<b>Wednesday</b>	← SEM-III (RS)	SEM-I PRAC (SKB) SEM-III (RS)	→ SEM-III (MC) SEM-V (RS)	← ←	SEM-III PRAC (RS/SKB) SEM-V PRAC (AS)	SEM-I (MC) → →	SEM-I (MC) LIBRARY [SKB]	←	SEM-I PRAC (AS/RS)	→
<b>Thursday</b>	SEM-III (KS) ®	SEM-III (KS)	← SEM-I (MC)	SEM-I (MC) SEM-III PRAC (KS)	→ SEM-V (AS) ®	← SEM-V (AS)	SEM-I PRAC (MC/SKB) SEM-V (RS) ®	→ SEM-V (RS)	SEM-V (RS)	
<b>Friday</b>	SEM-V(KS)	LIBRARY [SKB] SEM-V(KS)	SEM-V (SKB) ®	SEM-V (SKB)	←	SEM-I (AS) ® SEM-III (KS) SEM-V PRAC (RS/SKB)	SEM-I (MC) ® SEM-III (KS) →	←	SEM-III PRAC (RS/AS)	→
<b>Saturday</b>	←	SEM-I PRAC (SKB/RS)	→ SEM -V (KS) ®	SEM-I (MC) SEM -V (RS) ®	SEM-I (MC)					

® = REMEDIAL CLASS



**Dr. Kunal Sinha**  
Head of the Department,  
Department of Electronics,  
Asutosh College.



## ROUTINE ANALYSIS\_ODD SEMESTER\_2022

NAME / SEMESTER	I H (TH)	I H ®	I H (P)	III H (TH)	III H ®	III H (P)	V H (TH)	V H ®	V H (P)	TOTAL
DR. SOURAV KUMAR BHOWMICK			9	2		3	3	1	6	24
DR. KUNAL SINHA				3	1	9	4	1	6	24
DR. RABIA SULTANA			6	4		6	3	2	3	24
SRI. ARNAB SAMADDER	4	1	3			3	3	1	3	18
MS. MADHURIMA CHATTERJEE	5	1	3	3	1	3				16

THEORY	TH
REMEDIAL CLASS	®
PRACTICAL	P



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**Department of Electronics**  
**Distribution of Syllabus, 2022 (Odd semester)**

**Semester-V**

Sl. No	Paper Code	Topic	Faculty	Marks
<b>Honours</b>				
1	CC-11	Electronic Instrumentation	<b>Theory:</b> Dr. Sourav Kumar Bhowmick <b>Practical:</b> Dr. Sourav Kumar Bhowmick	100
2	CC-12	Microprocessor and Microcontroller	<b>Theory:</b> Arnab Samadder <b>Practical:</b> Arnab Samadder	100
3	DSE-1-A-2	Control System	<b>Theory:</b> Rabia Sultana <b>Practical:</b> Rabia Sultana	100
4	DSE-2-B-2	Power Electronics	<b>Theory:</b> Dr. Kunal Sinha <b>Practical:</b> Dr. Kunal Sinha	100

**Semester-III**

Sl. No	Paper Code	Topic	Faculty	Marks
<b>Honours</b>				
1	CC-5	Semiconductor Devices	<b>Theory:</b> Dr. Kunal Sinha <b>Practical:</b> Dr. Kunal Sinha	100
2	CC-6	Electronic Circuits	<b>Theory:</b> Dr. Rabia Sultana <b>Practical:</b> Dr. Rabia Sultana	100
3	CC-7	Electromagnetics	<b>Theory:</b> Madhurima Chatterjee <b>Practical:</b> Madhurima Chatterjee	100
4	SEC-1-A-1	Design and Fabrication of Printed Circuit Board	<b>Theory:</b> Dr. Sourav Kumar Bhowmick <b>Practical:</b> NA	100



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**Semester-I**

Sl. No	Paper Code	Topic	Faculty	Marks
<b>Honours</b>				
1	CC-1	Basic Circuits and Network Analysis	<b>Theory:</b> Madhurima Chatterjee <b>Practical:</b> Arnab Samadder, Madhurima Chatterjee	100
2	CC-2	Mathematical Foundation for Electronics	<b>Theory:</b> Arnab Samadder <b>Practical:</b> Dr. Sourav Kumar Bhowmick	100





**Department of Electronics**  
**Teaching Plan for Semester – 3**

Name of Faculty: Dr. Kunal Sinha

Paper: CC – 5 (Semiconductor Device) (Theory)

Lectures Allotted: 56

<b>Lecture Number</b>	<b>Proposed Topics to be taught</b>
1 – 10	Semiconductor Basics
11 – 13	Carrier Transport Phenomenon
14 – 20	Physics of Junctions
21 – 26	PN junction Diodes
27 – 28	Application of Diode
29 – 38	Bipolar Junction Transistor
39 – 40	FET
41 – 43	JFET
44 – 50	MOSFET
51 – 56	Power Devices

Paper: CC – 5 (Semiconductor Device) (Practical)

Lecture Hours: 56

<b>Lecture Number</b>	<b>Proposed Topics to be taught</b>
1 – 8	I-V characteristics of PN junction diode and Zener Diode
9 – 14	I-V characteristics of CE mode BJT configuration
15 – 20	I-V characteristics of CB mode BJT configuration
21 – 26	I-V characteristics of SCR
27 – 32	I-V characteristics of DIAC
33 – 38	I-V characteristics of TRIAC
39 – 44	I-V characteristics of JFET / MOSFET
45 – 50	I-V characteristics of Solar Cell
51 – 56	Study of Hall Effect





**Department of Electronics**

**Teaching Plan for Semester – 5**

Name of Faculty: Dr. Kunal Sinha

Paper: DSE – B2 (Power Electronics) (Theory)

Lectures Allotted: 56

<b>Lecture Number</b>	<b>Proposed Topics to be taught</b>
1 – 5	Power Devices
6 – 12	Semiconductor Controlled Rectifier
12 – 14	Application of SCR
15 – 19	DIAC, TRIAC
20 – 22	IGBT
23 – 24	Power MOSFET
25 – 30	Power Inverters
31 – 36	Choppers
37 – 42	Regulators and Converters
43 – 56	Electromechanical Machines

Paper: DSE – B2 (Power Electronics) (Practical)

Lectures Allotted: 56

<b>Lecture Number</b>	<b>Proposed Topics to be taught</b>
1 – 5	I-V characteristics of DIAC
6 – 10	I-V characteristics of TRIAC
11 – 15	I-V characteristics of SCR
16 – 21	SCR as half wave and full wave rectifier
22 – 27	DC motor control using SCR
28 – 32	DC motor control using TRIAC
33 – 37	AC voltage controller using TRIAC using UJT triggering
38 – 42	Study of Parallel and Bridge Inverter
43 – 47	Design of Snubber Circuit
48 – 52	I-V characteristics of MOSFET and IGBT
53 – 56	Study of Chopper circuit



# ASUTOSH COLLEGE

## DEPARTMENTAL ACADEMIC PROGRESS REPORT

Academic Report from the Head, Department of ELECTRONICS, for the Month of November, Year 2022

	1ST SEM	3RD SEM	5TH SEM	TOTAL ALLOTTED & TAKEN
<b>TOTAL CLASSES ALLOTTED:</b>	<b>73</b>	<b>77</b>	<b>72</b>	<b>222</b>
<b>TOTAL CLASSES TAKEN:</b>	<b>69</b>	<b>78</b>	<b>70</b>	<b>217</b>

NAME OF TEACHER	1ST SEM (H)		3RD SEM (H)		5TH SEM (H)		OTHER ACTIVITIES / REMARKS
	TOTAL ALLOTTED	TOTAL TAKEN	TOTAL ALLOTTED	TOTAL TAKEN	TOTAL ALLOTTED	TOTAL TAKEN	
Dr. Sourav Kumar Bhowmick	9	9	8	8	12	12	Work related to Committee "Sparsha", and Solar Cell.
Dr. Kunal Sinha, HOD	0	0	34	34	28	28	Work related to Academic Sub Committee, AQAR Criteria 1 and Criteria 3 and Solar Cell.
Dr. Rabia Sultana	6	6	8	8	14	14	
Sri. Arnab Samadder	18	12	0	0	18	16	Works related to AQAR Criteria 5 and Criteria 6
Smt. Madhurima Chatterjee	40	42	27	28	0	0	
<b>TOTAL</b>	<b>73</b>	<b>69</b>	<b>77</b>	<b>78</b>	<b>72</b>	<b>70</b>	

TOTAL BOOKS ISSUED TO STUDENTS FROM SEMINAR LIBRARY	
SEMESTER	NUMBER OF BOOKS
<b>I</b>	<b>6</b>
<b>III</b>	<b>10</b>
<b>V</b>	<b>18</b>

TOTAL NUMBER OF TUTORIAL AND REMEDIAL CLASSES TAKEN		
SEMESTER	TUTORIAL CLASSES	REMEDIAL CLASSES
<b>I</b>	-	8
<b>III</b>	-	8
<b>V</b>	-	20

