



Government of India

Ministry of Education

Department of Higher Education

Statistics Division

New Delhi

Certificate



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This is to certify that Dr Keya Ghosh of Asutosh College has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2021-2022.

(Shri R. Rajesh)

Deputy Director General

Dated: 19/01/2023

**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
Monday			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) →	
Tuesday	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)	
Wednesday	← 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)	→
Thursday	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)	
Friday	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)	→
Saturday	←	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
Honours				
1	CC-11	Electronic Instrumentation	Theory: Dr. Sourav Kumar Bhowmick Practical: Dr. Sourav Kumar Bhowmick	100
2	CC-12	Microprocessor and Microcontroller	Theory: Arnab Samadder Practical: Arnab Samadder	100
3	DSE-1-A-2	Control System	Theory: Rabia Sultana Practical: Rabia Sultana	100
4	DSE-2-B-2	Power Electronics	Theory: Dr. Kunal Sinha Practical: Dr. Kunal Sinha	100

Semester-III

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



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Semester-I

Sl. No	Paper Code	Topic	Faculty	Marks
Honours				
1	CC-1	Basic Circuits and Network Analysis	Theory: Madhurima Chatterjee Practical: Arnab Samadder, Madhurima Chatterjee	100
2	CC-2	Mathematical Foundation for Electronics	Theory: Arnab Samadder Practical: 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

Lecture Number	Proposed Topics to be taught
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

Lecture Number	Proposed Topics to be taught
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

Lecture Number	Proposed Topics to be taught
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

Lecture Number	Proposed Topics to be taught
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
TOTAL CLASSES ALLOTTED:	73	77	72	222
TOTAL CLASSES TAKEN:	69	78	70	217

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	
TOTAL	73	69	77	78	72	70	

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

TOTAL NUMBER OF TUTORIAL AND REMEDIAL CLASSES TAKEN		
SEMESTER	TUTORIAL CLASSES	REMEDIAL CLASSES
I	-	8
III	-	8
V	-	20

