Program Outcomes

(1) Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

(2) Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

(3) Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

(4) Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

(5) Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

(6) The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

(7) Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

(8) Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

(9) Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

(10) Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

(11) Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

(12) Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Vivekananda Road, Pipulpati, Hooghly.

04/11/23

Civil Engineering Department
H.E.T.C.
Hooghly

Program Specific Outcomes

The Program Specific Outcomes (PSOs) of Electronics and Communications Engineering Department are:

PSO1: The ability to absorb and apply fundamental knowledge of core Electronics and Communication Engineering subjects in the analysis, design, and development of various types of integrated electronic systems as well as to interpret and synthesize the experimental data leading to valid conclusions.

PSO2: Competence in using electronic modern IT tools (both software and hardware) for the design and analysis of complex electronic systems in furtherance to research activities.

PSO3: Excellent adaptability to changing work environment, good interpersonal skills as a leader in a team in appreciation of professional ethics and societal responsibilities.

DIC, ECE Deptt.
HETC, Hooghly.

HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE ECE Department

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PSO Of EE Department

Program Specific Outcome (PSO)

PSO 1: Able to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all electrical courses in particular to identify, formulate and solve real life problems faced in industries and/or during research work.

PSO 2: Able to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

PSO 3: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

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Electrical Engineering Department
H.E.T.C
Hooghly

Program Specific Outcomes (PSOs)

PSO 1: To excel in professional career & higher education by acquiring knowledge in mathematical computing and engineering principles.

PSO 2: Analyze real life problem in developing economically feasible and socially acceptable solutions of engineering problems.

PSO 3: To excel in professionalism, ethical and moral conduct and interpersonal skills and communication adaptable to current trends in technology as well as change in technology.

H.O.D.
Mechanical Engineering
Hooghly Engineering & Technology College

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Program Specific Outcomes (PSOs)

The Program Specific Outcomes (PSOs) of C.S.E. Department are:

PSO 1: Able to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO 2: Able to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

PSO 3: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

PSO 4: Able to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

H.O.D.
ter Science and Engineering
ngineering & Technology College

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Hooghly Engineering & Technology College

Civil Engineering Department

Program Specific Outcomes

PSO1: Competence in Civil Engineering: Educating students with fundamental mathematical, scientific, and engineering knowledge to have a significant and positive long-term impact on the field of civil engineering.

PSO2: Usage of Cutting-Edge Technology: Inspiring students and preparing them for successful professional careers using appropriate techniques, resources and modern attitudes and modeling to complex engineering activities and research.

PSO3: Ability to Coordinate and communicate in groups: Emphasizing the importance of working in a team effectively and to communicate properly within the team to achieve the desired outcome.

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Civil Engineering Department
H.E.T.C.
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Hooghly Engineering & Technology College

Attainment

Electronics & Communication Engineering Department

Hooghly Engineering & Technology College

Electronics and Communications Engineering Department

Session: 2018-2019

Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I (Gr-A)/ Chemistry-I(Gr-B)	BS-PH101/ BS-CH101	2.0	1.3	0.8	0.9	1.0	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.5	0.5	0.7
2	1st	Mathematics –IA*/ Mathematics –IB *	BS-M101/ BS-M102	1.0	1.0	0.7	0.4	0.4	-	-	-	-	-	-	-	-	0.5	0.4	0.5
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	_	0.3	_	_	0.3	_	0.4	1.0	0.4	_
4	1st	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B)	BS-PH191/ BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	_	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.8	2.4	2.2	1.0	2.0	2.4	2.6	2.2
7	1st	Physics-I (Gr-B)	BS-PH201	1.0	0.4	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
8	1st	Mathematics –IIA#/ Mathematics –IIB #	BS-M201/ BS-M202	1.0	1.0	1.0	0.3	0.3	-	-	-	-	-	-	-	0.5	0.6	0.3	-
9	1st	Programming for Problem Solving	ES-CS201	3.0	2.0	3.0	2.0	1.8	2.8	2.8	2.8	2.3	3.0	2.5	2.0	3.0	2.0	2.3	2.5
10	1st	English	HM-HU201	3.0	-	-	-	-	-	0.8	0.0	1.5	1.5	3.0	1.5	0.8	0.0	0.8	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.3	1.0	0.0	-	1.1	0.0	0.0	0.0	1.1	0.8	0.8	0.8	1.9	0.0	1.5
12	1st	Programming for Problem Solving	ES-CS291	4.0	1.4	1.8	2.4	1.4	2.2	1.4	1.8	1.4	1.6	2.0	2.0	2.4	2.8	2.0	2.0
13	1st	Workshop/Manufacturing Practices(Gr-B)	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.6	1.0	1.4	1.4	1.0	1.4	1.0	4.0	3.4	3.0
14	1st	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	4.0	1.0	-	1.0	-
15	2nd	Numerical Methods	M(CS)301	2.0	2.0	1.5	-	1.3	-	-	-	-	-	-	-	0.5	1.3	1.0	-
16	2nd	Mathematics-III	M302	2.0	2.0	1.7	1.3	0.8	-	-	-	-	-	-	-	-	1.5	1.0	-

17	2nd	Circuit Theory & Networks	EC301	1.0	0.6	0.4	0.5	0.6	-	-	-	-	0.8	-	0.7	0.7	0.7	-	0.5
18	2nd	Solid State Device	EC302	2.0	2.0	1.0	_	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5
19	2nd	Signals & Systems	EC303	2.0	1.8	1.3	1.3	_	_	_	_	_	1.0	2.0	_	1.3	1.7	1.0	_
20	2nd	Analog Electronic Circuits	EC304	2.0	1.3	0.8	0.0	0.5	0.7	1.0	_	0.5	0.5	1.0	_	1.0	1.1	0.8	0.5
21	2nd	Nunerical Lab	M(CS)391	3.0	2.3	2.4	2.0	1.7	2.3	2.0	1.7	1.7	2.3	1.8	1.4	2.4	1.5	1.8	2.1
22	2nd	Circuit Theory & Network Lab	EC391	4.0	2.3	1.5	1.0	1.0	1.3	1.5	_	1.0	1.0	2.0	1.0	2.0	2.3	1.3	1.0
23	2nd	Solid State Devices	EC392	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.0	2.0
24	2nd	Signal System Lab	EC393	4.0	2.8	2.7	1.3	_	2.0	1.0	_	_	1.3	1.8	1.2	_	2.8	1.5	_
25	2nd	Analog Electronic Circuits Lab	EC394	3.0	2.0	1.1	1.1	0.8	_	_	_	_	0.8	_	0.8	_	2.1	0.8	0.8
26	2nd	Values & Ethics in Profession	HU401	3.0	-	-	-	-	-	2.2	2.2	2.4	-	2.3	-	2.7	-	-	2.5
27	2nd	Physics-II	PH401	2.0	0.8	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
28	2nd	Basic Environmental Engineering & Elementary Biology	CH401	2.0	1.3	0.8	0.9	1.0	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.5	0.5	0.7
29	2nd	EM Theory & Transmission Lines	EC401	2.0	1.3	0.8	0.5	_	0.7	1.0	_	_	0.5	0.9	_	0.8	1.3	0.7	0.5
30	2nd	Digital Electronic & Integrated Circuits	EC402	2.0	2.0	1.0	1.0	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5
31	2nd	Technical Report Writing & Language Lab Practice	HU481	4.0	-	-	-	-	-	1.0	-	2.0	2.0	4.0	2.0	1.0	-	3.0	-
32	2nd	Physics-II Lab	PH491	4.0	1.7	1.3	0.0	1.5	1.5	0.0	0.0	0.0	1.5	1.0	1.0	1.0	2.5	0.0	2.0
33	2nd	EM Theory & Tx Lines Lab	EC491	4.0	2.8	2.3	2.3	1.0	1.5	0.8	1.5	1.5	4.0	3.0	_	_	4.0	2.3	2.5
34	2nd	Digital Electronic & Integrated Circuits Lab	EC492	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.0	2.0
35	3rd	Economics for Engineers	HU-501	2.0	_	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5

36	3rd	Analog Communication	EC-501	2.0	1.3	1.3	1.1	0.5	0.9	1.0	1.0	0.5	0.5	0.8	0.6	0.9	0.9	_	0.5
37	3rd	Microprocessors & Microcontrollers	EC-502	2.0	0.8	0.8	1.0	0.8	1.0	1.3	0.5	1.0	_	_	_	1.0	0.9	0.5	_
38	3rd	Control System	EC-503	2.0	1.4	1.1	1.3	_	_	1.0	1.5	1.0	1.0	1.5	_	1.0	1.4	1.0	_
40	3rd	Data structure & C	EC-504B	2.0	2.7	2.7	1.0	3.0	2.9	1.0	1.9	1.0	1.4	1.1	2.0	1.7	2.9	2.6	2.6
41	3rd	Analog Communication Lab	EC-591	4.0	3.0	1.0	_	_	1.0	_	_	_	3.0	1.0	1.0	2.0	2.2	2.0	_
42	3rd	Microprocessors & Microcontrollers*	EC-592	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
43	3rd	Control System*	EC -593	4.0	2.7	3.2	_	_	2.4	_	_	_	2.0	2.7	_	_	2.9	3.0	_
45	3rd	Data structure & C	EC-594B	4.0	2.0	2.3	2.8	2.0	2.3	2.8	2.0	2.0	2.0	2.5	2.3	2.3	2.5	2.3	2.0
46	3rd	Principles of Management	HU-601	2.0	_	_	_	_	_	1.5	1.5	1.6		1.8	_	2.0	_	_	1.7
47	3rd	Digital Communication	EC601	3.0	2.6	1.8	1.5	0.8	1.4	_	_	_	1.5	1.3	1.1	2.7	2.0	0.8	_
48	3rd	Digital Signal Processing	EC602	3.0	2.3	1.8	1.8	_	1.8	2.3	_	2.3	1.5	1.8	_	_	2.0	1.8	2.3
49	3rd	Telecommunication System	EC 603	3.0	2.0	1.0	2.0	1.3	1.3	-	-	-	-	2.1	-	2.2	-	-	1.5
51	3rd	Information Theory & Coding	EC-604B	3.0	2.7	1.3	2.0	1.6	_	_	_	_	_	_	_	_	1.9	_	_
52	3rd	Object Oriented Programming (IT)	EC-605A	3.0	2.0	1.2	0.9	1.4	1.4	1.4	1.5	1.2	0.9	1.7	1.2	0.9	1.7	1.4	0.9
55	3rd	Digital Communication Laboratory	EC 691	4.0	3.0	1.0	1.0	_	1.0	_	_	_	2.0	1.3	1.0	2.0	2.2	1.0	_
56	3rd	Digital Signal Processing Lab.	EC 692	4.0	2.7	1.7	1.0	_	1.2	_	_	_	2.0	1.9	_	1.0	2.5	2.0	_
57	3rd	Object Oriented Programming (IT) Lab.	EC-695A	4.0	3.6	3.0	2.2	1.6	1.2	-	-	-	-	-	2.6	2.4	2.8	2.0	2.4
60	3rd	Seminar	EC-681	4.0	1.5	_	_	_	1.0	1.0	_	1.0	2.7	2.3	_	_	1.7	1.0	1.0
61	4th	Wireless Communication & N/W	EC 701	2.0	1.0	1.1	0.7	0.8	1.0	_	0.5	_	0.5	0.8	1.0	0.7	1.1	1.0	_
62	4th	Microelectronics & VLSI Designs	EC 702	3.0	3.0	1.5	1.5	0.8	-	0.8	1.5	0.8	-	1.5	-	-	3.0	-	0.8
64	4th	Computer Networks	EC 703C	3.0	3.0	3.0	2.8	2.6	2.0	1.3	1.5	2.3	2.3	1.8	2.0	3.0	3.0	2.0	2.0

65	4th	Radar Engg	EC 704A	2.0	1.5	0.5	1.0	0.5	0.5	0.5	0.5	_	_	0.5	1.0	_	0.9	_	0.5
66	4th	Data Base Management System	EC 705C	2.0	2.3	2.3	2.0	0.8	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.8	1.5	1.7	2.0
67	4th	Group Discussion	HU 781	4.0	1.0	1.0	-	-	1.0	-	1.0	1.0	1.7	4.0	2.0	3.0	1.7	2.0	1.0
68	4th	VLSI Design Lab	EC 792	3.0	2.0	1.7	1.5	0.8	0.8	_	_	_	0.8	_	1.0	_	2.1	0.8	_
70	4th	Computer Networks Laboratory	EC 793C	4.0	2.3	2.5	1.8	2.5	2.3	1.8	2.3	2.8	2.0	2.0	1.8	2.8	2.8	2.8	2.5
71	4th	Data Base Management System Lab (CSE)	EC 795C	4.0	1.5	1.5	1.0	1.3	0.0	0.0	0.8	0.0	3.0	0.3	1.3	0.0	1.8	1.5	2.0
72	4th	Industrial training	EC 781	4.0	2.0	_	_	_	2.0	_	3.0	2.0	2.3	2.0	_	2.0	2.0	2.0	2.0
73	4th	Project part I	EC 782	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
74	4th	Organisational Behaviour	HU801A	3.0	_	_	_	_	_	1.2	1.1	1.6		1.8	_	1.5	_	_	
75	4th	Satellite Communication & Remote Sensing	EC 801C	4.0	1.4	0.8	1.0	-	-	1.5	2.3	-	-	0.8	-	0.8	1.5	-	0.8
76	4th	Renewable Energy (EE)	EC 802C	3.0	2.0	2.0	-	-	2.3	-	-	-	1.5	2.0	1.7	2.2	1.5	-	-
77	4th	Design Lab / Industrial problem related practical training	EC881	3.0	2.3	1.9	1.0	0.8	_	_	0.8	_	0.8	2.3	0.8	0.8	2.0	_	0.8
78	4th	Project part-2	EC882	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
79	4th	Grand viva	EC893	3.0	1.3	1.1	1.3	0.8	1.5	0.8	1.5	0.8	2.0	1.8	0.8	0.8	1.1	0.8	1.1

Average =

3.0 2.0 1.6 1.4 1.2 1.4 1.2 1.2 1.2 1.7 1.7 1.4 1.5 1.9 1.4 1.4

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Hooghly Engineering & Technology College

Electronics and Communications Engineering Department

Session: 2019-2020

Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Chemistry-I(Gr-B)	BS-CH101	1.0	0.5	0.4	0.3	1.0	0.9	0.7	0.9	0.3	0.6	0.3	0.0	0.7	0.5	0.3	0.4
2	1st	Mathematics –IA*/ Mathematics –IB *	BS-M101/ BS-M102	1.0	1.0	0.7	0.4	0.4	-	-	-	-	-	-	-	-	0.5	0.4	0.5
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1.0	0.4	-
4	1st	Chemistry-I Laboratory (Gr-B)	BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	2.0	0.8	1.3	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	3.0	2.3	1.8	2.7	1.7	2.1	1.5	1.5	1.4	1.8	1.7	0.8	1.5	1.8	2.0	1.7
7	1st	Physics-I (Gr-B)	BS-PH201	2.0	0.8	1.3	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0
8	1st	Mathematics –IIA#/ Mathematics –IIB #	BS-M201/ BS-M202	4.0	4.0	4.0	1.0	1.0	-	-	-	-	-	-	-	2.0	2.5	1.3	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.0	3.0	2.0	1.8	2.8	2.8	3.0	2.8	1.8	3.0	2.5	2.0	3.0	2.0	2.3
10	1st	English	HM-HU201	4.0	-	-	-	-	-	1.0	-	2.0	2.0	4.0	2.0	1.0		3.0	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.7	1.3	0.0	1.5	1.5	0.0	0.0	0.0	1.5	1.0	1.0	1.0	2.5	0.0	2.0
12	1st	Programming for Problem Solving	ES-CS291	4.0	3.0	2.0	2.0	1.0	-	2.0	1.0	-	-	-	-	2.0	2.6	2.0	1.6
13	1st	Workshop/Manufacturing Practices(Gr-B)	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.6	1.0	1.4	1.4	1.0	1.4	1.0	4.0	3.4	3.0
14	1st	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0	-	2.0	2.0	4.0	2.0	1.0	-	3.0	-
15	2nd	Electronic Devices	EC301	2.0	2.0	1.0	0.5	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5
16	2nd	Digital System Design	EC302	2.0	1.7	-	2.0	1.5	1.0	1.0	1.5	0.9	-	-	1.9	1.3	1.5	1.5	_

17	2nd	Signals and Systems	EC303	2.0	1.0	0.9	_	0.8	_	_	_	_	0.5	_	_	_	1.0	_	_
18	2nd	Network Theory	EC304	2.0	1.2	0.9	1.1	1.0	1.2	-	-	-	-	1.5	-	1.5	1.4	.	1.0
19	2nd	Data Structure & Algorithm (ES)	ES-CS301	3.0	2.7	2.7	1.3	3.0	2.8	1.6	1.9	1.3	1.6	1.3	2.0	1.6	2.9	2.6	2.6
20	2nd	Probability & Statistics(BS)	BS-M301	1.0	1.0	0.8	1.0	0.3	-	-	-	-	-	-	0.3	-	0.8	0.4	-
21	2nd	Electronic Devices Lab.	EC391	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.0	2.0
22	2nd	Digital System Design Lab.	EC392	3.0	2.1	1.9	_	_	3.0	_	_	_	2.4	2.0	_	_	2.8	3.0	_
23	2nd	Data Structure Lab(ES)	ES-CS391	4.0	2.3	2.7	3.0	2.0	1.3	1.2	1.0	0.8	1.5	0.8	0.8	2.7	3.0	3.0	1.3
24	2nd	Environmental Science	MC381	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	1.0
25	2nd	Analog Communication	EC401	4.0	3.8	3.8	2.0	_	2.0	1.0	1.0	_	_	_	2.0	-	3.0	2.0	_
26	2nd	Analog Electronic Circuits	EC402	3.0	2.3	1.5	1.5	1.5	-	-	0.8	-	-	-	-		1.5	0.8	-
27	2nd	Microprocessor &Microcontrollers	EC403	4.0	2.3	2.0	2.0	1.0	2.0	_	_	_	1.0	_	_	1.0	2.3	2.0	_
28	2nd	Design and Analysis of Algorithm(ES)	ES-CS401	4.0	3.0	3.0	3.0	3.0	2.0	2.8	2.3	3.0	3.0	2.8	2.3	3.0	3.0	3.0	2.0
29	2nd	Numerical Methods(BS)	BS-M401	4.0	4.0	3.0	4.0	2.6	-	-	-	-	-	-	-	1.0	2.6	2.0	-
30	2nd	Biology for Engineers	BS-B401	3.0	_	1.0	1.1	_	_	0.9	_	_	_	_	_	_	0.8	1.2	_
31	2nd	Analog Communication Lab	EC491	4.0	3.5	2.0	1.8	1.5	1.0	_	_	_	2.0	1.5	1.8	3.8	3.5	1.0	1.0
32	2nd	Analog Electronic Circuits Lab.	EC492	3.0	1.9	1.1	1.0	0.8	_	_	_	_	0.8	_	0.8	_	2.3	0.8	0.8
33	2nd	Microprocessor & Microcontrollers Lab	EC493	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
34	2nd	Numerical Methods Lab	BS-M(CS)491	4.0	2.3	2.4	2.0	1.7	2.3	2.0	1.7	1.7	2.3	1.8	1.4	2.4	1.5	1.8	2.1
35	2nd	Soft Skill Development Lab	HS-HU481	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	-
36	3rd	Economics for Engineers	HU-501	2.0	_	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5
37	3rd	Analog Communication	EC-501	3.0	2.0	1.9	1.7	0.8	1.3	1.5	1.5	0.8	0.8	1.1	0.9	1.4	1.4	_	0.8

38	3rd	Microprocessors & Microcontrollers	EC-502	3.0	1.1	1.1	1.5	1.1	1.5	1.9	0.8	1.5	_	_	_	1.5	1.3	0.8	_
39	3rd	Control System	EC-503	3.0	2.1	1.7	2.0	_	_	1.5	2.3	1.5	1.5	2.3	-	-	2.1	1.5	_
41	3rd	Data structure & C	EC-504B	3.0	2.7	2.7	1.3	3.0	2.8	1.6	1.9	1.3	1.6	1.3	2.0	1.6	2.9		
42	3rd	Analog Communication*	EC-591	3.0	2.0	1.9	1.7	0.8	1.3	1.5	1.5	0.8	0.8	1.1	0.9	1.4	1.4	_	0.8
43	3rd	Microprocessors & Microcontrollers*	EC-592	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
44	3rd	Control System*	EC -593	4.0	2.7	3.2	_	_	2.4	_	_	_	2.0	2.7	_	_	2.9	3.0	_
46	3rd	Data structure & C	EC-594B	4.0	2.3	2.7	3.0	2.0	1.3	1.2	1.0	0.8	1.5	0.8	0.8	2.7	3.0	3.0	1.3
47	3rd	Principles of Management	HU-601	4.0	_	_	_	_	_	1.5	1.5	1.6		1.8	_	2.0	_	_	1.7
48	3rd	Digital Communications	EC601	4.0	2.0	2.0	2.0	1.0	1.0	_	_	_	2.0	1.0	1.0	2.0	2.0	1.0	_
49	3rd	Digital Signal Processing	EC602	4.0	3.0	2.4	2.3	_	2.3	3.0	_	3.0	2.0	2.4	_	_	2.6	2.3	3.0
50	3rd	Telecommunication System	EC 603	4.0	2.6	1.3	2.6	1.8	1.8	-	-	-	-	2.8	-	3.0	-	-	2.0
52	3rd	Information Theory & Coding	EC-604B	4.0	2.0	1.0	1.5	1.2	_	_	_	_	_	_	_	_	1.4	_	_
53	3rd	Object Oriented Programming (IT)	EC-605A	4.0	2.6	1.6	1.2	1.8	1.8	1.8	2.0	1.6	1.2	2.2	1.6	1.2	2.2	1.8	1.2
56	3rd	Digital Communications Lab.	EC 691	4.0	3.0	1.0	_	_	1.0	_	_	_	2.0	1.3	1.0	2.0	2.2	1.0	_
57	3rd	Digital Signal Processing Lab.	EC 692	4.0	2.7	1.7	1.0	_	1.2	_	_	_	2.0	1.9	_	1.0	2.5	2.0	_
58	3rd	Object Oriented Programming (IT) Lab.	EC-695A	4.0	2.6	2.6	2.0	2.2	2.6	2.2	2.2	1.8	2.0	2.2	1.8	1.6	2.2	1.8	1.2
61	3rd	Seminar	EC-681	4.0	1.5	_	_	_	1.0	1.0	_	1.0	2.7	2.3	_	_	1.7	1.0	1.0
62	4th	Wireless Communication & N/W	EC 701	2.0	0.9	0.5	0.7	_	_	_	0.5	_	0.5	0.8	_	1.0	1.1	1.0	_
63	4th	Microelectronics & VLSI Designs	EC 702	2.0	2.0	1.0	1.0	0.5	_	0.5	1.0	0.5	_	1.0	_	_	2.0	_	0.5
64	4th	Optical Fiber Communication and Networks	EC 703B	3.0	1.9	1.7	1.0	0.9	1.1	_	_	_	_	1.3	1.0	0.8	1.5	0.8	0.8

65	4th	Optical Fiber Communication Laboratory	EC 793B	4.0	3.0	1.0	1.0	_	1.0	_	_	_	1.8	1.3	1.0	3.2	2.3	_	1.0
66	4th	Computer Network	EC 703C	4.0	3.0	3.0	2.8	2.2	1.3	0.7	1.5	1.5	1.5	1.2	1.3	3.0	3.0	2.0	2.0
67	4th	Computer Network Laboratory	EC 793C	4.0	2.3	2.5	1.8	2.5	2.3	1.8	2.3	2.8	2.0	2.0	1.8	2.8	2.8	2.8	2.5
68	4th	Radar Engg	EC 704A	3.0	2.3	0.8	1.3	0.8	0.8	0.8	0.8	_	_	0.8	0.8	_	1.3	_	0.8
69	4th	Data Base Management System	EC 705C	2.0	2.3	2.3	2.0	0.8	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.8	1.5	1.7	2.0
70	4th	Group Discussion	HU 781	4.0	1.0	1.0	_	_	1.0	_	1.0	1.0	1.7	4.0	2.0	3.0	1.7	2.0	1.0
71	4th	VLSI Design Lab	EC 792	3.0	2.0	1.7	1.5	0.8	0.8	_	_	_	0.8	_	1.0	_	2.1	0.8	_
72	4th	Data Base Management System Lab (CSE)	EC 795C	4.0	1.5	1.5	1.0	1.3	0.0	0.0	0.8	0.0	3.0	0.3	1.3	0.0	1.8	1.5	2.0
73	4th	Industrial training	EC 781	4.0	2.0	_	_	_	2.0	_	3.0	2.0	2.3	2.0	_	2.0	2.0	2.0	2.0
74	4th	Project part 1	EC 782	3.0	1.8	1.5	1.5	1.3	1.5	1.3	0.8	0.8	1.9	_	1.7	0.8	1.2	_	_
75	4th	Organisational Behaviour	HU801A	4.0	_	_	_	_	_	1.2	1.1	1.6		1.8	_	1.5	_	_	1.5
76	4th	Satellite Communication & Remote Sensing	EC 801C	4.0	1.8	1.0	1.3	_	_	2.0	3.0	_	_	1.0	_	1.0	2.0	_	1.0
77	4th	Renewable Energy (EE)	EC 802C	4.0	2.7	2.7	-	-	3.0	-	-	-	2.0	2.7	2.3	3.0	2.0	-	-
78	4th	Design Lab / Industrial problem related practical training	EC881	4.0	2.8	2.8	2.3	1.8	1.8	1.0	2.3	1.5	4.0	3.0	_	_	4.0	2.0	1.8
79	4th	Project part-2	EC882	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
80	4th	Grand viva	EC893	3.0	1.3	1.1	1.3	0.8	1.5	0.8	1.5	0.8	2.0	1.8	0.8	0.8	1.1	0.8	1.1
			Average =	3.3	2.2	1.8	1.6	1.3	1.5	1.3	1.3	1.3	1.7	1.7	1.3	1.7	2.0	1.6	1.4

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Electronics and Communications Engineering Department

Session: 2020-2021

Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I (Gr-A)/ Chemistry-I(Gr-B)	BS-PH101/ BS-CH101	4.0	2.0	1.4	1.0	4.0	3.6	2.8	3.4	1.0	2.2	1.3	0.0	2.6	2.0	1.0	1.7
2	1st	Mathematics –IA*/ Mathematics –IB *	BS-M101/ BS-M102	3.0	2.9	2.1	1.1	1.3	-	-	-	-	-	-	-	-	1.5	1.1	1.5
3	1st	Basic Electrical Engineering	ES-EE101	4.0	4.0	3.3	1.5	1.0	1.3	-	1.0	-	-	1.0	-	1.5	4.0	1.5	-
4	1st	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B)	BS-PH191/ BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	-	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.8	2.4	2.2	1.0	2.0	2.4	2.6	2.2
7	1st	Physics-I (Gr-B)	BS-PH201	3.0	1.3	1.9	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.0	0.0
8	1st	Mathematics –IIA#/ Mathematics –IIB #	BS-M201/ BS-M202	4.0	4.0	4.0	1.0	1.0	-	-	-	-	-	-	-	2.0	2.5	1.3	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.8	2.8	1.5	2.5	3.0	2.6	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8

10	1st	English	HM-HU201	4.0	-	-	-	-	-	1.0	-	2.0	2.0	4.0	2.0	1.0	-	3.0	-
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.7	1.3	0.0	1.5	1.5	0.0	0.0	0.0	1.5	1.0	1.0	1.0	2.5	0.0	2.0
12	1st	Programming for Problem Solving	ES-CS291	4.0	2.8	2.8	1.5	2.5	3.0	2.6	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
13	1st	Workshop/Manufacturing Practices(Gr-B)	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.6	1.0	1.4	1.4	1.0	1.4	1.0	4.0	3.4	3.0
14	1st	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0	-	2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Electronic Devices	EC301	4.0	4.0	2.0	1.0	1.0	_	1.0	2.0	1.0	_	3.0	_	_	4.0	_	1.0
16	2nd	Digital System Design	EC302	4.0	3.0	2.8	3.4	-	4.0	3.0	2.0	2.0	3.0	1.8	-	-	3.8	2.5	3.0
17	2nd	Signals and Systems	EC303	4.0	2.0	1.8	_	1.5	_	_	_	_	1.0	_	_	_	2.0	_	_
18	2nd	Network Theory	EC304	4.0	2.4	1.8	2.2	2.0	2.4	-	-	-	-	3.0	-	3.0	2.8	-	2.0
19	2nd	Data Structure & Algorithm (ES)	ES-CS301	4.0	3.0	2.1	1.0	1.6	1.3	-	-	-	2.0	2.0	2.6	2.3	1.0	1.0	1.0
20	2nd	Probability & Statistics(BS)	BS-M301	4.0	4.0	3.3	4.0	1.3	-	-	-	-	-	-	1.0	-	3.0	1.8	-
21	2nd	Electronic Devices Lab.	EC391	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.0	2.0
22	2nd	Digital System Design Lab.	EC392	3.0	2.1	1.9	_	_	3.0	_	_	_	2.4	2.0	_	_	2.8	3.0	_
23	2nd	Data Structure Lab(ES)	ES-CS391	4.0	1.0	3.0	2.0	1.0	3.0	-	1.0	-	3.0	3.0	3.0	3.0	1.0	1.0	1.0
24	2nd	Environmental Science	MC381	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	1.0

25	2nd	Analog Communication	EC401	4.0	3.8	3.8	2.0	_	2.0	1.0	1.0	_	_	_	2.0	3.0	3.0	2.0	_
26	2nd	Analog Electronic Circuits	EC402	3.0	2.3	1.5	1.5	1.5	-	-	0.8	-	-	-	-	-	1.5	0.8	-
27	2nd	Microprocessor &Microcontrollers	EC403	4.0	2.3	2.0	2.0	1.0	2.0	_	_	_	1.0	_	_	1.0	2.3	2.0	_
28	2nd	Design and Analysis of Algorithm(ES)	ES-CS401	4.0	2.8	2.8	2.8	2.5	2.3	1.5	1.8	1.8	3.0	3.0	2.0	3.0	2.5	2.8	2.3
29	2nd	Numerical Methods(BS)	BS-M401	3.0	3.0	2.3	3.0	2.0	-	-	-	-	-	-	-	0.8	2.0	1.5	-
30	2nd	Biology for Engineers	BS-B401	4.0	_	1.3	1.4	_	_	1.2	_	_	_	_	_	_	1.0	1.6	_
31	2nd	Analog Communication Lab	EC491	4.0	3.5	2.0	1.8	1.5	1.0	_	_	_	2.0	1.5	1.8	3.8	3.5	1.0	1.0
32	2nd	Analog Electronic Circuits Lab.	EC492	3.0	1.9	1.1	1.0	0.8	_	_	_	_	0.8	_	0.8	_	2.3	0.8	0.8
33	2nd	Microprocessor & Microcontrollers Lab	EC493	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
34	2nd	Numerical Methods Lab	BS-M(CS)491	4.0	2.0	2.0	-	1.0	-	-	-	-	-	-	-	-	1.8	1.5	2.0
35	2nd	Soft Skill Development Lab	HS-HU481	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	-
36	3rd	Electromagnetic Waves	EC501	4.0	2.5	1.7	1.0	_	1.3	2.0	_	_	1.0	1.8	_	1.5	2.7	1.3	1.0
37	3rd	Computer Architecture	EC502	4.0	2.8	3.0	2.5	1.5	1.0	1.0	3.0	1.0	4.0	1.0	2.0	1.5	2.5	2.7	3.0
38	3rd	Digital Communication & Stochastic Process	EC503	4.0	3.5	2.8	1.8	_	2.5	_	_	_	1.0	1.0	1.5	3.3	2.5	2.0	_
39	3rd	Digital Signal Processing	EC504	3.0	2.3	0.8	_	_	0.8	_	_	_	0.8	1.5	_	_	2.0	_	_

40	3rd	Power Electronics	PE-EC505C	4.0	4.0	2.0	2.0	1.0	_	1.0	2.0	1.0	_	3.0	_	_	4.0	_	1.0
41	3rd	Soft Skill and Interpersonal Communication	OE-EC506 A	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	-	3.0
42	3rd	Electromagnetic Wave Lab	EC591	4.0	2.8	2.3	2.3	1.0	1.5	0.8	1.5	1.5	4.0	3.0	_	_	4.0	2.3	2.5
43	3rd	Digital Communication Lab.	EC592	4.0	3.0	2.0	_	_	1.0	_	_	_	2.0	1.3	1.0	2.0	2.2	2.0	1.0
44	3rd	Digital Signal Processing Lab.	EC593	4.0	2.7	1.8	1.0	_	1.0	_	_	_	_	2.2	_	_	2.8	2.0	_
45	3rd	Effective Technical Communication	MC-HU581	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	-
46	3rd	Control System & Instrumentation	EC601	4.0	2.2	2.6	-	-	1.7	-	-	-	1.0	2.0	-	-	2.4	1.8	_
47	3rd	Computer Network	EC602	4.0	2.0	1.3	1.3	3.0	2.0	1.3	2.3	2.5	1.8	2.0	1.5	1.5	3.0	1.8	1.5
48	3rd	CMOS VLSI Design	PE-EC603C	3.0	3.0	1.5	0.8	0.8	_	0.8	1.5	0.8	0.8	2.3	_	_	3.0	_	0.8
50	3rd	Operating System	OE-EC604B	4.0	3.0	3.0	3.0	3.0	1.3	2.0	1.0	1.0	2.0	1.8	1.0	2.0	2.0	1.5	1.0
51	3rd	Economics for Engineers	HS-HU601	4.0	_	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5
52	3rd	Computer Network Lab.	EC692	4.0	2.0	2.3	1.5	2.5	2.0	1.3	2.3	2.5	1.8	2.0	1.5	1.5	2.8	1.8	1.8
53	3rd	Control System and Instrumentation Lab.	EC691	4.0	2.3	2.8	-	-	1.6	-	-	-	1.5	1.8	-	1.0	2.0	2.0	1.0
54	3rd	Mini Project/ Electronic Design Workshop	EC681	4.0	2.8	2.8	2.3	1.8	1.8	1.0	2.3	1.5	4.0	3.0	_	_	4.0	2.0	1.8
55	4th	Wireless Communication & N/W	EC 701	4.0	2.0	2.2	1.4	1.6	2.0	_	1.0	_	1.0	1.7	2.0	1.3	2.2	2.0	_

56	4th	Microelectronics & VLSI Designs	EC 702	4.0	4.0	2.0	2.0	1.0	-	1.0	2.0	1.0	-	2.0	-	-	4.0	-	1.0
58	4th	Radar Engg	EC 704A	4.0	3.0	1.0	1.8	1.0	1.0	1.0	1.0	-	-	1.0	1.0	-	1.8	-	1.0
59	4th	Optical Fiber Communication and Networks	EC 703B	4.0	2.5	2.3	1.3	1.2	1.5	_	_	_	_	1.8	1.3	1.0	2.0	1.0	_
61	4th	Group Discussion	HU 781	3.0	0.8	0.8	_	_	0.8	_	0.8	0.8	1.3	3.0	1.5	2.3	1.3	1.5	0.8
62	4th	VLSI Design Lab	EC 792	4.0	2.7	2.2	2.0	1.0	1.0	_	_	_	1.0	_	1.4	_	2.9	1.0	_
64	4th	Optical Fiber Communication Laboratory	EC793B	4.0	3.0	1.0	1.0	_	1.0	_	_	_	1.8	1.3	1.0	3.2	2.3	_	1.0
66	4th	Industrial training	EC 781	4.0	2.0	_	_	_	2.0	_	3.0	2.0	2.3	2.0	_	2.0	2.0	2.0	2.0
67	4th	Project part 1	EC 782	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
68	4th	Organisational Behaviour	HU801A	4.0	_	_	_	_	_	1.2	1.1	1.6		1.8	_	1.5	_	_	1.5
69	4th	Satellite Communication & Remote Sensing	EC 801C	4.0	1.8	1.0	1.3	_	_	2.0	3.0	_	_	1.0	_	1.0	2.0	_	1.0
70	4th	Renewable Energy (EE)	EC 802C	4.0	2.7	2.7	-	-	3.0	-	-	-	2.0	2.7	2.3	3.0	2.0	-	-
71	4th	Design Lab / Industrial problem related practical training	EC881	4.0	3.8	3.0	_	_	3.0	2.0	2.0	_	_	2.0	1.6	4.0	2.8	2.0	_
72	4th	Project part-2	EC882	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
73	4th	Grand viva	EC893	4.0	1.7	1.5	1.7	1.0	2.0	1.0	2.0	1.0	2.7	2.3	1.0	1.0	1.5	1.0	1.5
				Avg.	2.9	2.6	2.2	1.8	2.1	1.6	1.9	1.4	1.7	1.4	2.0	2.1	1.6	1.8	2.9	1.8	1.6

25.08.21

25/8/21

Principal in Charge
Hooghly Engineering & Technology College
Hooghly.

HOD/DIC/Coordinator
Dept. of ECE, HETC, Hooghly.

Hooghly Engineering & Technology College

Electronics and Communications Engineering Department

Session: 2021-2022

Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I (Gr-A)/ Chemistry-I(Gr-B)	BS-PH101/ BS-CH101	4.0	2.0	1.4	1.0	4.0	3.6	2.8	3.4	1.0	2.2	1.3	0.0	2.6	2.0	1.0	1.7
2	1st	Mathematics –IA*/ Mathematics –IB *	BS-M101/ BS-M102	3.0	2.9	2.1	1.1	1.3	-	-	-	-	-	-	-	-	1.5	1.1	1.5
3	1st	Basic Electrical Engineering	ES-EE101	4.0	4.0	3.3	1.5	1.0	1.3	-	1.0	-	-	1.0	-	1.5	4.0	1.5	-
4	1st	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B)	BS-PH191/ BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	-	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.8	2.4	2.2	1.0	2.0	2.4	2.6	2.2
7	1st	Physics-I (Gr-B)	BS-PH201	3.0	1.3	1.9	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.0	0.0
8	1st	Mathematics –IIA#/ Mathematics –IIB #	BS-M201/ BS-M202	3.0	3.0	3.0	0.8	0.8	-	-	-	-	-	-	-	1.5	1.9	0.9	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.8	2.8	1.5	2.5	3.0	2.6	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
10	1st	English	HM-HU201	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0		3.0	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291/	3.0	1.7	1.3	0.0	1.5	1.5	0.0	0.0	0.0	1.5	1.0	1.0	1.0	2.5	0.0	2.0
12	1st	Programming for Problem Solving	ES-CS291	3.0	2.1	2.1	1.1	1.9	2.3	2.0	2.1	1.8	2.3	2.0	1.5	2.3	1.9	2.0	2.1
13	1st	Workshop/Manufacturing Practices(Gr-B)	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.6	1.0	1.4	1.4	1.0	1.4	1.0	4.0	3.4	3.0
14	1st	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Electronic Devices	EC301	4.0	4.0	2.0	1.0	1.0	_	1.0	2.0	1.0	_	3.0	_	_	4.0	_	1.0
16	2nd	Digital System Design	EC302	4.0	3.0	2.8	3.4		4.0	3.0	2.0	2.0	3.0	1.8			3.8	2.5	3.0
17	2nd	Signals and Systems	EC303	4.0	2.0	1.8	_	1.5	_	_	_	_	1.0	_	_	_	2.0	_	_
18	2nd	Network Theory	EC304	4.0	2.4	1.8	2.2	2.0	2.4	-	-	-	-	3.0	-	3.0	2.8	-	2.0
19	2nd	Data Structure & Algorithm (ES)	ES-CS301	2.0	2.7	2.7	1.3	3.0	2.8	1.6	1.9	1.3	1.6	1.3	2.0	1.6	2.9	2.6	2.6
20	2nd	Probability & Statistics(BS)	BS-M301	4.0	4.0	3.3	4.0	1.3	-	-	-	-	-	-	1.0	-	3.0	1.8	-
21	2nd	Electronic Devices Lab.	EC391	3.0	2.1	1.9	1.7	0.8	0.8	0.6	1.1	0.8	3.0	2.3	_	_	3.0	0.8	1.5

22	2nd	Digital System Design Lab.	EC392	4.0	2.8	2.5	3.2	_	4.0	_	_	_	3.2	2.6	_	_	3.7	4.0	_
23	2nd	Data Structure Lab(ES)	ES-CS391	4.0	2.3	2.7	3.0	2.0	1.3	1.2	1.0	0.8	1.5	0.8	0.8	2.7	3.0	3.0	1.3
24	2nd	Environmental Science	MC381	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	1.0
25	2nd	Analog Communication	EC401	4.0	3.8	3.8	2.0	_	2.0	1.0	1.0	_	_	_	2.0	3.0	3.0	2.0	_
26	2nd	Analog Electronic Circuits	EC402	4.0	3.0	2.0	2.0	2.0	-	-	1.0	_	_	-	-	_	2.0	1.0	-
27	2nd	Microprocessor &Microcontrollers	EC403	4.0	2.3	2.0	2.0	1.0	2.0	_	_	_	1.0	_	_	1.0	2.3	2.0	_
28	2nd	Design and Analysis of Algorithm(ES)	ES-CS401	4.0	2.8	2.8	2.8	2.5	2.3	1.5	1.8	1.8	3.0	3.0	2.0	3.0	2.5	2.8	2.3
29	2nd	Numerical Methods(BS)	BS-M401	4.0	4.0	3.0	4.0	2.6	-	-	-	-	-	-	-	1.0	2.6	2.0	-
30	2nd	Biology for Engineers	BS-B401	4.0	_	1.3	1.4	_	_	1.2	_	_	_	_	_	_	1.0	1.6	_
31	2nd	Analog Communication Lab	EC491	3.0	2.6	1.5	1.3	1.1	0.8	_	_	_	1.5	1.1	1.3	2.8	2.6	0.8	0.8
32	2nd	Analog Electronic Circuits Lab.	EC492	4.0	2.5	1.5	1.3	1.0	_	_	_	_	1.0	_	1.0	_	3.0	1.0	1.0
33	2nd	Microprocessor & Microcontrollers Lab	EC493	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
34	2nd	Numerical Methods Lab	BS-M(CS)491	3.0	2.0	2.0	-	1.0	-	-	-	-	-	-	-	-	1.8	1.5	2.0
35	2nd	Soft Skill Development Lab	HS-HU481	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0		3.0	
36	3rd	Electromagnetic Waves	EC501	4.0	2.5	1.7	1.0	-	1.3	2.0	-	-	1.0	1.8	-	1.5	2.7	1.3	1.0
37	3rd	Computer Architecture	EC502	3.0	2.1	2.3	1.9	1.1	0.8	0.8	2.3	0.8	3.0	0.8	1.5	1.1	1.9	2.0	2.3
38	3rd	Digital Communication & Stochastic Process	EC503	4.0	3.5	2.8	1.8	_	2.5	_	_	_	1.0	1.0	1.5	3.3	2.5	2.0	_
39	3rd	Digital Signal Processing	EC504	4.0	3.0	1.0	_	_	1.0	_	_	_	1.0	2.0	_	_	2.7	_	_
40	3rd	Power Electronics	PE-EC505C	4.0	4.0	2.0	2.0	1.0	_	1.0	2.0	1.0	_	3.0	_	_	4.0	_	1.0
41	3rd	Soft Skill and Interpersonal Communication	OE-EC506 A	4.0						1.0		2.0	2.0	4.0	2.0	1.0			3.0
42	3rd	Electromagnetic Wave Lab	EC591	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	2.5	2.0
43	3rd	Digital Communication Lab.	EC592	4.0	3.0	2.0	_	_	1.0	_	_	_	2.0	1.3	1.0	2.0	2.2	2.0	1.0
44	3rd	Digital Signal Processing Lab.	EC593	4.0	2.7	1.8	1.0	_	1.0	_	_	_	_	1.6	_	_	2.8	2.0	_
45	3rd	Effective Technical Communication	MC-HU581	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
46	3rd	Control System & Instrumentation	EC601	4.0	2.6	2.6	-	-	1.7	-	-	-	1.0	2.0	-	-	2.4	1.8	_
47	3rd	Computer Network	EC602	4.0	3.0	3.0	2.0	1.0	1.0	2.0	1.0	2.0	1.0	1.0	3.0	1.0	3.0	2.0	1.0
48	3rd	CMOS VLSI Design	PE-EC603C	3.0	3.0	1.5	0.8	0.8	_	0.8	1.5	0.8	0.8	2.3	_	_	3.0	_	0.8

50	3rd	Object Oriented Programming	OE-EC604C	4.0	3.0	3.0	3.0	3.0	1.3	2.0	1.0	1.0	2.0	1.8	1.0	2.0	2.0	1.5	1.0
51	3rd	Economics for Engineers	HS-HU601	4.0	_	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5
52	3rd	Computer Network Lab.	EC692	4.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0
53	3rd	Control System and Instrumentation Lab.	EC691	4.0	2.3	2.8	-	-	1.6	-	-	-	1.5	1.8	-	1.0	2.0	2.0	1.0
54	3rd	Mini Project/ Electronic Design Workshop	EC681	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.8	1.8
55	4th	Universal Human Values	MC681	4.0	_	_	_	_	_	3.0	3.0	3.2		3.0	_	3.6	_	_	3.4
56	4th	Satellite Communication	PE-EC701B	3.0	1.5	1.5	0.8	_	_	0.8	2.3	_	_	0.8	_	0.8	1.5	_	2.3
57	4th	Mobile Communication and Networks	PE-EC701C	4.0	3.0	2.0	2.0	2.0	2.0	2.0	1.0	_	_	2.0	2.0	3.0	3.0	2.0	1.0
58	4th	Digital Image and Video Processing	PE-EC702B	4.0	4.0	3.3	3.0	3.0	3.7	-	1.5	2.0	2.0	3.0	1.7	1.7	4.0	3.3	_
59	4th	Wireless Sensor Networks	PE-EC703B	4.0	3.0	3.3	2.0	2.3	3.5	_	1.5	_	1.5	2.0	2.0	2.0	3.5	2.3	_
60	4th	Web Technology	OE-EC704	4.0	2.7	2.2	2.2	1.5	1.3	2.0	_	1.0	1.0	1.6	_	1.8	2.4	2.0	1.0
61	4th	Principles of Management	HS-HU701	4.0	_	_	_	_	_	1.5	1.5	1.6		1.8	_	2.0	_	_	1.7
62	4th	Industrial Training	EC781	4.0	2.0	_	_	_	2.0	_	3.0	2.0	2.3	2.0	_	2.0	2.0	2.0	2.0
63	4th	Project Stage – I	EC782	3.0	1.8	1.5	1.5	1.3	1.5	1.3	0.8	0.8	1.9	_	1.7	0.8	1.2	_	_
64	4th	Fibre Optic Communication	PE-EC801B	4.0	3.8	3.0	_	_	3.0	2.0	2.0	_	_	2.0	1.6	4.0	2.8	2.0	_
65	4th	Mixed Signal Design	PE-EC802A	4.0	2.0	3.0	-	-	3.0	-	-	-	1.7	2.3	1.6	3.0	2.7	-	-
66	4th	Internet of Things(IoT)	OE-EC803A	4.0	4.0	3.3	3.0	2.3	2.7	-	1.3	_	1.7	2.7	1.3	1.0	3.7	2.0	_
67	4th	Artificial Intelligence	OE-EC804A	4.0	3.0	3.0	3.0	3.0	1.3	2.0	1.0	1.0	2.0	1.8	1.0	2.0	2.0	1.5	1.0
68	4th	Project Stage – II	EC881	4.0	2.3	2.0	2.0	1.8	2.0	1.7	1.0	1.0	2.5	_	2.3	1.0	1.6	_	_
69	4th	Grand Viva	EC882	3.0	1.3	1.1	1.3	0.8	1.5	0.8	1.5	0.8	2.0	1.8	0.8	0.8	1.1	0.8	1.1
			Avg.	3.8	2.7	2.3	2.0	1.7	2.0	1.5	1.5	1.4	1.9	2.1	1.5	1.8	2.6	1.9	1.6

30.06.22

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30/06/22

HOD/DIC/Coordinator
Dept. of ECE, HETC, Hooghly.

Hooghly Engineering & Technology College																			
Electronics and Communications Engineering Department																			
Session: 2022-2023																			
Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I (Gr-A)/ Chemistry-I(Gr-B)	BS-PH101/ BS-CH101	1.0	0.5	0.4	0.3	1.0	0.9	0.7	0.9	0.3	0.6	0.3	_	0.7	0.5	0.3	0.4
2	1st	Mathematics –IA*/ Mathematics –IB *	BS-M101/ BS-M102	1.0	1.0	0.7	0.4	0.4	-	-	-	-	-	-	-	-	0.5	0.4	0.5
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1.0	0.4	-
4	1st	Physics-I Laboratory (Gr-A)/ Chemistry-I Laboratory (Gr-B)	BS-PH191/ BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	_	2.0	1.0	1.0	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	_	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.8	2.4	2.2	1.0	2.0	2.4	2.6	2.2
7	1st	Physics-I (Gr-B)	BS-PH201	3.0	0.4	0.6	0.3	0.3	0.3	-	-	-	-	-	-	0.3	0.3	-	-
8	1st	Mathematics –IIA#/ Mathematics –IIB #	BS-M201/ BS-M202	1.0	1.0	1.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.3	0.0
9	1st	Programming for Problem Solving	ES-CS201	1.0	0.8	2.3	2.7	2.0	1.5	-	-	-	0.8	0.8	-	0.8	1.5	1.5	0.8
10	1st	English	HM-HU201	2.0	-	-	-	-	-	0.5	0.0	1.0	1.0	2.0	1.0	0.5	0.0	1.5	-
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.3	1.0	-	1.1	1.1	-	-	-	1.1	0.8	0.8	0.8	2.3	0.8	0.8
12	1st	Programming for Problem Solving	ES-CS291	4.0	3.0	2.5	3.0	3.5	3.0	2.0	-	1.0	2.0	1.0	-	1.0	1.5	2.0	1.0
13	1st	Workshop/Manufacturing Practices(Gr-B)	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.6	1.0	1.4	1.4	1.0	1.4	1.0	4.0	3.4	3.0
14	1st	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	
15	2nd	Electronic Devices	EC301	2.0	2.0	1.0	0.5	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5

16	2nd	Digital System Design	EC302	3.0	2.3	2.1	2.6	-	3.0	2.3	1.5	1.5	2.3	1.3	-	-	2.8	1.9	2.3
17	2nd	Signals and Systems	EC303	2.0	1.0	0.9		0.8	-	-	-	-	0.5		-	-	1.0	-	-
18	2nd	Network Theory	EC304	2.0	1.2	0.9	1.1	1.0	1.2	-	-	-	-	1.5	-	1.5	1.4	-	1.0
19	2nd	Data Structure & Algorithm (ES)	ES-CS301	3.0	2.7	2.7	1.3	3.0	2.8	1.6	1.9	1.3	1.6	1.3	2.0	1.6	2.9	2.6	2.6
20	2nd	Probability & Statistics(BS)	BS-M301	2.0	2.0	1.6	2.0	0.6	-	-	-	-	-	-	0.5	-	1.5	0.9	-
21	2nd	Electronic Devices Lab.	EC391	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.0	2.0
22	2nd	Digital System Design Lab.	EC392	4.0	2.8	2.5	3.2	_	4.0	_	_	_	3.2	2.6	_	_	3.7	4.0	_
23	2nd	Data Structure Lab(ES)	ES-CS391	4.0	2.3	2.7	3.0	2.0	1.3	1.2	1.0	0.8	1.5	0.8	0.8	2.7	3.0	3.0	1.3
24	2nd	Environmental Science	MC381	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	1.0
25	2nd	Analog Communication	EC401	2.0	1.9	1.9	1.0	_	1.0	0.5	0.5	_	_	_	1.0	1.5	1.5	1.0	_
26	2nd	Analog Electronic Circuits	EC402	2.0	1.5	1.0	1.0	1.0	_	_	0.5	_	_	_	_	_	1.0	0.5	_
27	2nd	Microprocessor &Microcontrollers	EC403	3.0	1.7	1.5	1.5	0.8	1.5	_	_	_	0.8	_	_	0.8	1.7	1.5	_
28	2nd	Design and Analysis of Algorithm(ES)	ES-CS401	2.0	2.0	1.4	1.5	1.0	0.9	1.0	0.8	0.0	0.0	0.0	0.0	0.0	1.3	1.1	1.0
29	2nd	Numerical Methods(BS)	BS-M401	3.0	3.0	2.3	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	1.5	0.0
30	2nd	Biology for Engineers	BS-B401	3.0	_	1.0	1.1	_	_	0.9	_	_	_	_	_	_	0.8	1.2	_
31	2nd	Analog Communication Lab	EC491	4.0	3.5	2.0	1.8	1.5	1.0	_	_	_	2.0	1.5	1.8	3.8	3.5	1.0	1.0
32	2nd	Analog Electronic Circuits Lab.	EC492	4.0	2.5	1.5	1.3	1.0	_	_	_	_	1.0	2.0	1.0	_	3.0	1.0	_
33	2nd	Microprocessor & Microcontrollers Lab	EC493	4.0	3.0	3.0	2.0	1.0	2.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_
34	2nd	Numerical Methods Lab	BS-M(CS)491	4.0	3.0	3.2	2.6	2.2	3.0	2.6	2.2	2.2	3.0	2.4	1.8	3.2	2.0	2.4	2.8
35	2nd	Soft Skill Development Lab	HS-HU481	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0		3.0	
36	3rd	Electromagnetic Waves	EC501	2.0	1.0	0.6	0.9	0.9	0.9	-	-	-	-	1.4	-	1.8	-	-	1.0
37	3rd	Computer Architecture	EC502	2.0	1.4	1.5	1.3	0.8	0.5	0.5	1.5	0.5	2.0	0.5	1.0	0.8	1.3	1.3	1.5

38	3rd	Digital Communication & Stochastic Process	EC503	2.0	1.8	1.4	0.9	_	1.3	_	_	_	0.5	0.5	0.8	1.6	1.3	1.0	_
39	3rd	Digital Signal Processing	EC504	2.0	1.5	0.5	_	_	0.5	_	_	_	0.5	1.0	_	_	1.3	_	_
40	3rd	Power Electronics	PE-EC505C	2.0	2.0	1.0	1.0	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5
41	3rd	Soft Skill and Interpersonal Communication	OE-EC506 A	3.0	-	-			-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	
42	3rd	Electromagnetic Wave Lab	EC591	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	2.5	2.5
43	3rd	Digital Communication Lab.	EC592	4.0	3.0	2.0	_	_	1.0	_	_	_	2.0	1.3	_	_	2.2	2.0	1.0
44	3rd	Digital Signal Processing Lab.	EC593	3.0	2.0	1.4	0.8	_	0.8	_	_	_	_	1.6	_	_	2.1	1.5	_
45	3rd	Effective Technical Communication	MC-HU581	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0		3.0	-
46	3rd	Control System & Instrumentation	EC601	2.0	1.3	1.3	-	-	0.8	-	-	-	0.5	1.0	-	-	1.2	0.9	-
47	3rd	Computer Network	EC602	2.0	3.0	3.0	2.0	1.0	1.0	2.0	1.0	2.0	1.0	1.0	3.0	1.0	3.0	2.0	1.0
48	3rd	CMOS VLSI Design	PE-EC603C	2.0	2.0	1.0	0.5	0.5	_	0.5	1.0	0.5	_	1.5	_	_	2.0	_	0.5
49	3rd	Information Theory & Coding	PE-EC603D	1.0	0.8	0.3	_	0.5	0.3	_	_	_	_	_	_	0.8	0.3	0.3	_
50	3rd	Object Oriented Programming	OE-EC604C	2.0	1.9	1.4	1.3	0.7	0.7	1.3	1.0	1.3	1.0	1.3	3.0	0.9	1.8	1.2	0.8
51	3rd	Economics for Engineers	HS-HU601	2.0	_	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5
52	3rd	Computer Network Lab.	EC692	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0
53	3rd	Control System and Instrumentation Lab.	EC691	3.0	1.7	2.1	-	-	1.2	-	-	-	1.1	1.4	-	0.8	1.5	1.5	0.8
54	3rd	Mini Project/ Electronic Design Workshop	EC681	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	_	_	4.0	1.8	1.8
55	4th	Universal Human Values	MC681	4.0	_	_	_	_	_	3.0	3.0	3.2	-	3.0	_	3.6	_	_	3.4
56	4th	Mobile Communication and Networks	PE-EC701C	3.0	2.3	1.5	1.5	1.5	1.5	1.5	0.8	_	_	1.5	1.5	2.3	2.3	1.5	0.8
57	4th	Digital Image and Video Processing	PE-EC702B	2.0	2.0	1.7	1.5	1.5	1.8	-	0.8	1.0	1.0	1.5	0.8	0.8	2.0	1.7	_
58	4th	Wireless Sensor Networks	PE-EC703B	3.0	2.3	2.4	1.5	1.7	2.6	_	1.1	_	1.1	1.5	1.5	1.5	2.6	1.7	_

59	4th	Web Technology	OE-EC704	2.0	2.7	2.2	2.2	1.5	1.3	2.0	_	1.0	1.0	1.6	_	1.8	2.4	2.0	1.0
60	4th	Principles of Management	HS-HU701	2.0	_	_	_	_	_	1.5	1.5	1.6		1.8	_	2.0	_	_	1.7
61	4th	Industrial Training	EC781	4.0	2.0	_	_	_	2.0	_	3.0	2.0	2.3	2.0	_	2.0	2.0	2.0	2.0
62	4th	Project Stage – I	EC782	3.0	1.8	1.5	1.5	1.3	1.5	1.3	0.8	0.8	1.9	_	1.7	0.8	1.2	_	_
63	4th	Fibre Optic Communication	PE-EC801B	2.0	1.9	1.5	_	_	1.5	1.0	1.0	_	_	1.0	0.8	2.0	1.4	1.0	_
64	4th	Mixed Signal Design	PE-EC802A	3.0	1.5	2.3	_	_	2.3	_	_	_	1.3	1.8	1.3	2.3	2.0	_	_
65	4th	Internet of Things (IoT)	OE-EC803A	2.0	2.0	1.7	1.5	1.2	1.3	-	0.7	-	0.8	1.3	0.7	0.5	1.8	1.0	-
66	4th	Artificial Intelligence	OE-EC804A	3.0	2.3	2.3	2.3	2.3	0.9	1.5	0.8	0.8	1.5	1.3	0.8	1.5	1.5	1.1	0.8
67	4th	Project Stage – II	EC881	3.0	3.1	2.7	2.7	2.3	2.7	2.2	1.3	1.3	3.3	_	3.0	1.3	2.1	_	_
68	4th	Grand Viva	EC882	3.0	1.3	1.1	1.3	0.8	1.5	0.8	1.5	0.8	2.0	1.8	0.8	0.8	1.1	0.8	1.1
			Avg.	2.8	2.2	2.0	1.9	1.6	1.7	1.6	1.4	1.5	1.9	1.8	1.3	1.7	2.1	1.5	1.5

12.07.23

Principal in Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly.

12/07/23

HOD/DIC/Coordinator
Dept. of ECE, HETC, Hooghly.

Hooghly Engineering & Technology College

Attainment

Computer Science & Engineering Department

Hooghly Engineering & Technology College

Department of Computer Science and Engineering

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment			
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	1st	Physics-I	BS-PH101	4	1.72	2.52	1	1	1	-	-	-	-	-	-	1	2	1	-	-
2	1st	Mathematics-I	BS-M101	1	2	1.85	1.25	0.62	0.52	-	-	-	-	-	0.52	0.52	1.72	0.82	-	-
3	1st	Basic Electrical Engineering	CS-EE101	1	0.75	0.66	0.67	0.43	0.25	0.52	0.43	0.25	0.26	0.25	0.25	0.75	0.75	0.25	0.75	-
4	1st	Physics-I Laboratory	BS-PH191	3	1.35	1	-	1.15	1.15	-	-	-	1.15	0.85	0.85	0.85	2.35	0.85	0.85	0.85
5	1st	Basic Electrical Engineering Laboratory	CS-EE191	4	0.09	0.09	3	3	0.06	-	0.03	0.09	0.09	0.06	0.09	0.18	0.09	0.03	0.09	-
6	1st	Workshop/ Manufacturing Practices (CE)	ES-ME 192	4	2.65	2.65	2	1.45	1	1.25	1.65	1	1.25	1.65	1	1	4	3.4	3.4	3.62
7	1st	Chemistry-I	BS-CH201	1	0.55	0.55	0.35	0.95	0.95	0.75	0.85	0.35	0.65	0.35	-	0.7	0.42	0.3	0.5	0.32
8	1st	Mathematics-II	BS-M201	1	1	0.85	0.85	0.75	0.35	-	-	-	-	-	-	0.3	1	0.5	-	-
9	1st	Programming for Problem Solving	ES-CS201	2	2	1.81	1.81	1.87	1.18	-	-	-	0.55	0.55	1	-	1.52	1.625	-	1
10	1st	English	HM-HU201	3	-	-	-	-	-	1.35	-	2.75	0.26	5.35	2.75	1.32	-	1.32	-	-
11	1st	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.85	2	1.35	1.55	1	1	2	1	1	1	2
12	1st	Programming for Problem Solving Laboratory	ES-CS291	3	2.75	2.75	3	2.75	2.25	1.55	-	0.75	1.55	1.55	-	-	2.75	2.25	0.75	1.52
13	1st	Engineering Graphics & Design (CSE)	ES-ME 291	4	1.85	1	1.25	1	1.85	1.85	1.45	1	1	2	1	1	2	1.22	1	1.42
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1	-	2	2	4	4	1	-	1	-	-
15	2nd	Values & Ethics in Profession	HU301	3	2.72	2.12	2.12	1.82	1.32	2.22	-	1	1.62	1.92	-	2	2.32	2	1.92	2
16	2nd	Physics-2	PH301	1	1.32	0.52	0.52	0.52	-	-	-	-	-	-	0.52	1	0.52	-	-	-
17	2nd	Basic Environmental Engineering & Elementary Biology	CH301	2	1.32	0.82	0.92	1	0.82	1.22	1.32	0.82	0.72	0.52	0.52	0.82	0.62	0.52	0.82	0.52
18	2nd	Analog & Digital Electronics	CS301	1	0.52	0.37	0.31	0.31	-	-	-	-	-	-	-	-	0.52	-	-	-
19	2nd	Data Structure & Algorithm	CS302	2	1.82	1.92	1.92	1.42	1	-	-	-	-	-	0.52	0.82	1.92	1.92	-	1
20	2nd	Computer Organisation	CS303	2	1.22	1.12	1.32	1.12	1.22	1.22	1	1.22	1.22	1.12	1.32	1.12	1.22	1.12	1.12	1.22
21	2nd	Analog and Digital Electronics	CS391	4	3	2.72	2.32	1.32	1.42	-	-	1.52	2	1	1	3	1.66	1	-	1
22	2nd	Data Structure & Algorithms lab.	CS392	4	3	3.62	3.62	3	3	2	-	2	1	2	-	1	4	3	1	2
23	2nd	Computer Organisation lab	CS393	3	2.32	2.32	1.82	1.52	1.82	1.12	0.82	1.52	1.92	1.92	1.32	2	1.25	-	-	0.75
24	2nd	Numerical Methods	M(CS)401	2	2	2	2	1.52	-	-	-	-	-	-	-	1	2	1.52	-	-
25	2nd	Mathematics-3	M401	2	2	1.72	1.32	0.52	-	-	-	-	-	-	-	0.52	2	1.42	-	-
26	2nd	Communication Engg. & Coding Theory	CS401	2	1.52	1.42	1.42	1.52	0.62	1	0.82	0.82	1	0.92	0.82	1	1	1	0.82	2
27	2nd	Formal Language & Automata Theory	CS402	2	2	1.72	1.82	1.72	1.12	-	-	1	-	-	-	-	1.52	1.72	-	0.32
28	2nd	Computer Architecture	CS403	2	3	2.52	2.52	3	2	1.52	1.52	1	1	1.52	2	1.75	3	2.52	2	2.52
29	2nd	Technical Report Writing & Language	HU481	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
30	2nd	Lab Practice	M(CS)491	4	4	4	3	2	4	2	-	2	1	2	-	1	4	2	1	2
31	2nd	Communication Engg. & Coding Theory lab.	CS491	3	2.75	3	2.25	2.75	2.62	-	-	-	-	1.52	-	-	3	2.62	-	1.52
32	2nd	Software Tools lab.	CS492	4	2.84	2.54	2.84	2.34	2.84	1.82	1.82	1.82	2.82	2.82	2.32	2.72	2.32	3	2.52	2.52
33	2nd	Computer Architecture lab.	CS493	4	2.44	2	2.34	1.74	1	2	1.52	-	1	1	2	1.52	1	1.52	-	1
34	3rd	Economics for Engineers	HU501	3	-	-	-	-	-	1.32	1.62	1.52	-	1.62	-	1.92	-	-	1.5	-
35	3rd	Design & Analysis of Algorithm	CS501	3	2.75	3	2.25	2.75	2.62	-	-	-	-	1.52	-	-	3	2.62	-	1.52
36	3rd	Microprocessors & Microcontrollers	CS502	3	1.12	1.12	1.54	1.12	1.52	1.87	0.75	1.52	-	-	-	1.52	1.31	0.75	-	-
37	3rd	Discrete Mathematics	CS503	4	2.14	1.44	1	0.75	0.92	1.52	-	0.75	1.22	1.42	-	-	2.12	1.87	0.75	0.75
38	3rd	Object Oriented Programming (IT)	CS504D	4	3.74	3.74	3.74	3.24	2.72	2.12	2.12	2.42	3.72	4	2.7	4	3.22	3.72	3.22	3.52
39	3rd	Design & Analysis of Algorithm lab.	CS591	4	4	3	4	3	0.67	-	-	-	1	1	-	1	4	3	-	2
40	3rd	Microprocessors & Microcontrollers lab.	CS592	4	3	3	2	1	2	-	-	-	1	2	1	-	2.25	2.25	-	
41	3rd	Programming Practices using C++	CS593	4	3	3	2.75	3	-	2	2	-	2	1	1.25	1.75	2.5	2.75	2	2.25
42	3rd	Object Oriented Programming (IT)	CS594D	4	3.72	3.52	3.72	2.92	3.52	2.12	2.42	2.12	3.72	3.72	2.92	3.72	3.22	3.74	3.24	3.54
43	3rd	Principles of Management	HU601	3	-	-	-	-	-	1.52	1.52	1.62	-	1.82	-	2	-	-	1.74	-
44	3rd	Database Management Systems	CS601	3	2.32	2.32	2.32	2.32	1.52	2.12	1.72	2.32	2.32	2.12	1.72	2.32	2.32	2.34	1.54	2.34
45	3rd	Computer Networks	CS602	3	3	3	3	3		-	-	2	-	-	-	3	3	2	3	2
46	3rd	Operating System	CS603	3	2.85	2.42	1.65	1.22	0.92	-	-	-	-	-	1.65	1.82	2.42	1.84	-	1.95

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
47	3rd	Information Theory & Coding	CS604A	2	1.82	1	1.52	1.42	-	-	-	-	-	-	-	-	-	-	-	-
48	3rd	Multimedia Technology	CS605C	3	2.25	2.25	2.25	2.25	0.36	1.52	0.75	0.75	1.52	1.31	0.75	1.52	1.52	1.12	0.75	0.95
49	3rd	Database Management Systems lab.	CS691	4	3	3	3	3	2	2.82	2.32	3	3	2.36	2.32	3	3	3	2	3
50	3rd	Computer Networks lab.	CS692	4	3	3	3	2	2	2	1	3	3	2	2	3	3	3	2	2
51	3rd	Operating System lab.	CS693	4	3.62	3.22	2.42	2.42	2.42		-	-	-	-	2.22	2.42	3	2.84	-	2.84
52	3rd	Seminar	CS681	4	2.32	2.32	2.32	2.32	0.92	1.52	0.82	0.82	1.52	1.32	0.82	1.52	1.52	1.14	0.84	0.94
53	4th	Software Engg	CS701	2	1.52	1.32	1.22	1	1.32	0.72	0.52	0.52	-	0.52	0.92	1.52	1.32	1.24	1.24	2
54	4th	Compiler Design	CS702	2	0.72	1.92	1.32	0.72	0.52	-	-	-	0.72	-	0.92	0.82	1.42	0.64	-	0.5
55	4th	Artificial Intelligence	CS703C	3	2.25	2.25	2.25	2.25	0.93	1.52	0.75	0.75	1.52	1.33	2	1.52	1.52	1.12	0.75	0.93
56	4th	Cloud Computing	CS704B	4	4	3.72	4	3.32	1.32	3	3	2.72	3	2.72	2.32	4	4	3.3	3	3.74
57	4th	Internet Technology	CS705A	3	2.55	1.82	2.72	1.82	1.82	0.45	2	-	-	-	2.42	1.82	2.55	1.52	-	0.94
58	4th	Group Discussion	HU781	4	-	1	2	1.52	1.22	1.83	-	-	2.72	3	1	1.62	1	-	2.33	-
59	4th	Software Engg Lab	CS791	4	2	2.32	2.62	2.62	-	-	-	-	2.32	2.62	1.87	-	1.52	1.65	1.95	1.95
60	4th	Artificial Intelligence	CS793C	4	3	3	2	2	2	1	1	1	2	1	1	2	2.25	2.25	2	1.54
61	4th	Internet Technology	CS795A	4	3.62	3.62	3.62	3	2.82	-	-	-	-	-	3.42	1.22	2.62	2.22	-	1
62	4th	Industrial Training	CS792	4	1.62	-	-	-	1.62	-	2.42	2.42	2.42	1.62	-	1.62	-	-	-	-
63	4th	Project-I	CS794	4	2.32	3	3.22	3.32	2.72	2.52	2.72	2.82	2.72	2.82	3	3.22	3.32	3.22	2	1.82
64	4th	Organisational Behaviour	HU801A	3	-	-	-	-	-	1.22	1.12	1.62	-	1.82	-	1.52	-	-	1.52	-
65	4th	Cryptography & Network Security	CS801D	3	2.32	2.32	2.32	2.32	1.52	2.12	1.72	2.32	2.32	2.12	1.72	2.32	2.32	2.32	1.52	2.32
66	4th	E-Commerce	CS802E	3	2	1.52	2.52	2	3	2.52	1.52	2.52	2.75	2	2.52	2.25	2.25	2	2.25	1.75
67	4th	Design Lab	CS891	4	4	3.52	4	2.83	2.32	2	-	-	2	1.62		1.82	3	2	1	2
68	4th	Project-II	CS892	4	2.42	2.62	2.82	2.82	2.72	2.72	2.82	2.42	2.42	2.32	2.42	2.42	2.42	2	2.25	1.75
69	4th	Grand Viva	CS893	4	2.72	2	2	1.52	1.32	2	-	1	1	1.52	-	1.75	2.52	2	1.52	2
AVERAGE				3-1159	2.3098	2.153	2.159	1.89	1.6116	1.666	1.4817	1.550227	1.69234043	1.809808	1.592889	1.675254	2.113115	1.848417	1.596341	1.73346939

Signature of the HOD/DIC

Coordinator
Department of CSE

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Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly

Hooghly Engineering & Technology College

Department of Computer Science and Engineering

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment			
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	1st	Physics-I	BS-PH101	2	0.82	1.37	0.59	0.58	0.53	-	-	-	-	-	-	0.54	1	0.58	-	-
2	1st	Mathematics-I	BS-M101	1	1	0.99	0.68	0.36	0.35	-	-	-	-	-	0.32	0.32	0.94	0.42	-	-
3	1st	Basic Electrical Engineering	CS-EE101	1	0.75	0.67	0.67	0.45	0.25	0.55	0.45	0.25		0.25	0.25	0.75	0.75	0.25	0.75	
4	1st	Physics-I Laboratory	BS-PH191	3	1.33	1	-	1.16	1.16	-	-	-	1.14	0.88	0.84	0.83	2.35	0.82	0.84	0.85
5	1st	Basic Electrical Engineering Laboratory	CS-EE191	4	0.18	0.18	3	3	0.12	-	0.62	0.18	0.15	0.18	0.18	0.18	0.18	0.62	0.18	-
6	1st	Workshop/ Manufacturing Practices (CE)	ES-ME 192	3	1.94	1.9	1.56	1	0.75	0.93	1.23	0.73	0.92	1.26	0.74	0.77	3	2.52	2.55	0.66
7	1st	Chemistry-I	BS-CH201	2	1	0.94	0.55	1.87	1.76	1.44	1.53	0.65	1.11	0.76	-	1.35	0.84	0.52	1	0.54
8	1st	Mathematics-II	BS-M201	4	4	3	3	2.64	1	-	-	-	-	-	-	1	4	2	-	-
9	1st	Programming for Problem Solving	ES-CS201	4	4	3.63	3.63	3.75	2.38	-	-	-	1	1	2	-	3	3.25	-	2
10	1st	English	HM-HU201	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
11	1st	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.84	2	1.35	1.54	1	1	2	1	1	1	2
12	1st	Programming for Problem Solving Laboratory	ES-CS291	4	3.67	3.67	4	3.67	3	2	-	1	2	2	-	-	3.67	3	1	2
13	1st	Engineering Graphics & Design (CSE)	ES-ME 291	4	1.85	1	1.24	1	1.87	1.85	1.41	1	1	2	1	1	2	1.28	1	1.45
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd	Analog and Digital Electronics	ESC301	2	0.67	0.75	0.58	0.67	-	-	-	-		-	0.53	-	-	0.53	-	0.75
16	2nd	Data Structure & Algorithms	PCC-CS301	3	3	3	1.54	2.25	2.25	-	-	-	0.75	0.75	0.34	1.2u	2.85	2.85	0.75	1.65
17	2nd	Computer Organisation	PCC-CS302	2	2.47	2.24	2.66	2.25	2.44	2.46	2	2.44	2.45	2.28	2.62	2.2	2.41	2.24	2.28	2.4
18	2nd	Mathematics-III	BSC 301	2	2	1.35	1.37	0.55	-	-	-	-	-	-	-	0.54	2	1.34	-	-
19	2nd	Economics for Engineers	HSMC 301	2	2	2	2	2	-	2	-	1	-	-	1	1	1	1	1	-
20	2nd	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC-CS393	4	3.67	3.65	3.63	3	2.85	-	-	-	-	-	3.42	1.24	2.64	2.27	-	1
21	2nd	Analog and Digital Electronics	ESC 391	4	3	2.76	2.34	1.35	1.43	-	-	1.56	2	1	1	3	1.67	1	-	1
22	2nd	Data Structure & Algorithms	PCC-CS391	3	2.25	2.27	2.75	2.25	2.25	1.56	-	1.54	0.75	1.57	-	0.75	3	2.25	0.75	1.57
23	2nd	Computer Organisation lab.	PCC-CS392	4	3	3	2.32	2	2.34	1.55	1	2	2.57	2.55	1.74	2.74	1.67	-	-	1
24	2nd	Discrete Mathematics	PCCCS401	4	2.15	1.47	1	0.75	0.92	1.54	-	0.75	1.28	1.44	-	-	2.17	1.87	0.75	0.75
25	2nd	Computer Architecture	PCC-CS 402	4	3	2.56	2.54	3	2	1.54	1.53	1	1	1.53	2	1.75	3	2.58	2	2.57
26	2nd	Formal Language & Automata Theory	PCC-CS403	4	4	3.14	3.43	3.29	2	-	-	-	-	-	-	2	3	3.29	-	2
27	2nd	Design & Analysis of Algorithms	PCC-CS404	4	4	3.62	4	3.87	2	-	-	-	1	1	2	-	3	3.25	-	2
28	2nd	Biology	BSC 401	4	-	1.35	1.42	-	-	1.22	-	-	-	-	-	-	1.52	2.82	-	-
29	2nd	Environmental Sciences	MC401	4	2.55	1.78	1.85	2	1.74	2.33	2.55	1.75	1.38	1	1	1.52	1.3	1	1.72	1
30	2nd	Computer Architecture	PCC-CS 492	4	2.77	2	2.36	1.73	1	2	1.55	-	1	1	2	1.52	1	1.52	-	1
31	2nd	Design & Analysis of Algorithms lab.	PCCCS494	4	4	4	4	3	0.67	-	-	-	-	-	-	-	4	3	-	2
32	3rd	Economics for Engineers	HU501	3			-	-	-	1.3	1.65	1.55	-	1.62	-	1.92	-	-	1.5	
33	3rd	Design & Analysis of Algorithm	CS501	3	2.75	3	2.25	2.75	2.62	-			-	1.52	-	-	3	2.62		1.52
34	3rd	Microprocessors & Microcontrollers	CS502	2	0.75	0.75	1	0.75	1	1.25	0.55	1	-	-	-	-	0.87	0.52	-	-
35	3rd	Discrete Mathematics	CS503	2	2.12	1.4	1	0.75	0.97	1.55	-	0.75	1.22	1.42	-	-	2.12	1.87	0.75	0.75
36	3rd	Object Oriented Programming (IT)	CS504D	3	2.13	2.16	2.18	1.87	1.57	1.25	1.25	1.45	2.12	2.32	1.52	2.32	1.8	2.12	1.8	2
37	3rd	Design & Analysis of Algorithm lab.	CS591	4	4	3	4	3	0.67	-	-	-	1	1	-	1	4	3	-	2
38	3rd	Microprocessors & Microcontrollers lab.	CS592	4	3	3	2	1	2	-	-	-	1	2	1	-	2.25	2.25	-	-
39	3rd	Programming Practices using C++	CS593	4	3	3	2.75	3	1	2	2	2	2	1	1.25	1.75	2.5	2.75	2	2.25
40	3rd	Object Oriented Programming (IT)	CS594D	3	2.15	2	2.18	1.78	2	1.25	1.45	1.25	2.12	2.12	1.72	2.12	1.82	2.12	1.82	2
41	3rd	Principles of Management	HU601	3	-	-	-	-	-	1.55	1.55	1.65	-	1.82	-	2	-	-	1.7	-
42	3rd	Database Management Systems	CS601	4	3	3	3	3	2	2.85	2.35	3	3	2.82	2.32	3	3	3	2	3
43	3rd	Computer Networks	CS602	4	3	3	2	1	1	2	1	2	1	1	3	1	3	2	1	1
44	3rd	Operating System	CS603	4	3.85	3.26	2.28	1.67	1.27	-		-	-	-	2.22	2.42	3.22	2.42	-	2.62

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45	3rd	Information Theory & Coding	CS604A	2	1.8	1	1.57	1.45	-	-	-	-	-	-	-	-	-	-	-	-
46	3rd	Multimedia Technology	CS605C	4	3	3	3	3	1.25	2	1	1	2	1.75	1	2	2	1.52	1	1.25
47	3rd	Database Management Systems lab.	CS691	4	3	3	3	3	2	2.85	2.35	3	3	2.82	2.32	3	3	3	2	3
48	3rd	Computer Networks lab	CS692	4	3	3	3	2	2	2	1	3	3	2	2	3	3	2	2	2
49	3rd	Operating System lab.	CS693	4	3.66	3.26	2.47	2.47	2.47	-	-	-	-	-	2.22	2.42	3	2.82	-	2.8
50	3rd	Seminar	CS681	4	3	3	3	3	1.37	2	1	1	2	1.82	1	2	2	1.52	1	1.32
51	4th	Software Engg.	CS701	2	1.57	1.5	1.33	0.57	1.57	-	-	-	0.82	-	0.75	2.52	1	1.1	1.32	1.32
52	4th	Compiler Design	CS702	2	1.47	3.88	2.67	1.45	1	-	-	-	1.42	-	1.82	1.62	2.82	1.22	-	1
53	4th	Artificial Intelligence	CS703C	3	2.25	2.25	2.25	2.25	0.93	1.55	0.75	0.75	1.52	1.31	0.75	1.5	1.52	1.12	0.75	0.93
54	4th	Cloud Computing	CS704B	1	2.36	2.18	2.35	1.95	0.87	1.75	1.75	1.55	1.72	1.52	1.32	2.32	2.32	1.92	1.72	2.12
55	4th	Internet Technology	CS705A	3	2.15	2	2.12	1.75	2	1.25	1.45	1.25	2.12	2.12	1.72	2.12	1.82	2.12	1.82	2
56	4th	Group Discussion	HU781	4	-	1	2	1.57	1.27	-	-	-	2.72	3	1	1.62	1	-	2.3	2
57	4th	Software Engg Lab	CS791	4	2.75	3	3.53	3.57	4	-	-	-	3	3.52	2.52	-	2	2.22	2.62	2.62
58	4th	Artificial Intelligence	CS793C	4	3	3	2	2	2	1	1	1	2	1	1	2	2.25	2.25	2	1.52
59	4th	Internet Technology	CS795A	4	2.34	1.88	3	2	2	1.75	1.72	2.35	1.55	2.32	2.32	2	3	2.52	2.32	2.82
60	4th	Industrial Training	CS792	3	1.2	-	-	-	1.25	-	1.82	1.85	1.85	1.22	-	1.22	-	-	-	-
61	4th	Project-I	CS794	4	2.36	2.49	2.24	3	3	3	3	3	2	2.42	3	3	3	3	3	3
62	4th	Organisational Behaviour	HU801A	3	-	-	-	-	-	1.25	1.12	1.65	-	1.82	-	1.52	-	-	1.52	-
63	4th	Cryptography & Network Security	CS801D	4	3	3	3	3	2	2.85	2.32	3	3	2.82	2.32	3	3	3	2	3
64	4th	E-Commerce	CS802E	4	2	1.55	2.5	2	3	2.55	1.52	2.55	2.75	2	2.52	2.25	2.25	2	2.25	1.75
65	4th	Design Lab	CS891	4	4	3.54	4	2.83	2.37	2	-	-	2	1.62	-	1.82	3	2	1	2
66	4th	Project-II	CS892	4	3	2.74	2.75	2.85	2.77	2.85	2.82	2.75	2.7	3	3	3	2.72	2.72	2.72	3
67	4th	Grand Viva	CS893	4	2.74	2	2	1.52	1.35	2	1.25	1	1	1.52	-	1.75	2.52	2	1.52	2
AVERAGE				3.37321	2.507833	2.304754	2.3015	2.054	1.677719	1.772857	1.529714	1.584524	1.722292	1.758627	1.643261	1.739811	2.267119	1.9965	1.547619	1.7756

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1	1st	Physics-I	BS-PH101	4	1.7	2.51	1	1	1	-	-	-	-	-	-	1	2	1	-	-
2	1st	Mathematics-I	BS-M101	4	4	3.62	2.43	1.25	1	-	-	-	-	-	1	1	3.46	1.62	-	-
3	1st	Basic Electrical Engineering	CS-EE101	4	3	2.67	2.67	1.83	1	2	1.83	1	-	1	1	3	3	1	3	-
4	1st	Physics-I Laboratory	BS-PH191	3	1.36	1	-	1.17	1.16	-	-	-	1.14	0.81	-	0.82	2.33	0.84	0.83	0.84
5	1st	Basic Electrical Engineering Laboratory	CS-EE191	4	0.37	0.37	3	3	0.25	-	0.12	0.37	0.37	0.25	0.37	0.37	0.37	0.12	0.37	-
6	1st	Workshop/ Manufacturing Practices (CE)	ES-ME 192	4	2.64	2.61	2	1.43	1	1.24	1.69	1	1.25	1.69	1	1	4	3.45	3.46	3.67
7	1st	Chemistry-I	BS-CH201	4	2	1.83	1	3.55	3.46	2.87	3	1.32	2.21	1.31	-	2.63	1.55	1	2	1
8	1st	Mathematics-II	BS-M201	4	4	3	3	2.63	1	-	-	-	-	-	-	1	4	2	-	-
9	1st	Programming for Problem Solving	ES-CS201	4	4	-	1.63	1.75	2.38	-	-	-	1	1	2	-	3	3.25	-	2
10	1st	English	HM-HU201	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
11	1st	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.81	2	1.33	1.54	1	1	2	1	1	1	2
12	1st	Programming for Problem Solving Laboratory	ES-CS291	4	3.67	3.67	4	3.67	3	2	-	1	2	2	-	-	3.67	3	1	2
13	1st	Engineering Graphics & Design (CSE)	ES-ME 291	4	1.87	1	1.23	1	1.84	1.89	1.48	1	1	2	1	1	2	1.26	1	1.45
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd	Analog and Digital Electronics	ESC301	4	1.34	1.54	1	1.34	-	-	-	-	-	-	1	-	-	1	-	1.56
16	2nd	Data Structure & Algorithms	PCC-CS301	4	4	4	2	3	3	-	-	-	1	1	0.47	1.63	3.83	3.81	1	2.23
17	2nd	Computer Organisation	PCC-CS302	4	2.15	1.45	0.75	0.75	0.95	1.57	-	-	1.25	1.44	-	-	2.12	1.55	0.75	0.75
18	2nd	Mathematics-III	BSC 301	4	4	2.66	2.64	1	-	-	-	-	-	-	-	-	4	2.62	-	-
19	2nd	Economics for Engineers	HSMC 301	3	2	2	2	2	-	2	-	1	-	-	3	1	1	1	1	-
20	2nd	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC-CS393	4	3.25	2.75	3.58	2.57	1.75	0.75	-	-	-	-	2.55	3	1.25	1.56	-	2.25
21	2nd	Analog and Digital Electronics lab	ESC 391	4	3	2.71	2.39	1.34	1.46	-	-	1.58	2	1	1	3	1.67	1	-	1
22	2nd	Data Structure & Algorithms lab	PCC-CS391	4	3	3.66	3.65	3	3	2	-	2	1	2	-	1	4	3	1	2
23	2nd	Computer Organisation lab	PCC-CS392	4	3	3	2.37	2	2.38	1.5	1	2	2.58	2.56	1.72	2.74	1.67	-	-	1
24	2nd	Discrete Mathematics	PCCCS401	4	2.14	1.45	1	0.75	0.95	1.57	-	0.75	1.22	1.43	-	-	2.17	1.87	0.75	0.75
25	2nd	Computer Architecture	PCC-CS 402	4	3	2.54	2.53	3	2	1.56	1.57	1	1	1.57	2	1.75	3	2.58	2	2.58
26	2nd	Formal Language & Automata Theory	PCC-CS403	4	4	3.14	3.43	3.29	2	-	-	-	-	-	-	2	3	3.29	-	2
27	2nd	Design & Analysis of Algorithms	PCC-CS404	4	4	3.62	4	3.82	2	-	-	-	1	1	2	-	3	3.25	-	2
28	2nd	Biology	BSC 401	4	-	1.32	1.43	-	-	1.25	-	-	-	-	-	-	1.57	2.88	-	-
29	2nd	Environmental Sciences	MC401	4	2.53	1.71	1.87	2	1.77	2.52	2.52	1.78	1.34	1	1	1.53	1.31	1	1.72	1
30	2nd	Computer Architecture lab	PCC-CS 492	4	2.76	2	2.34	1.71	1	2	1.54	-	1	1	2	1.52	1	1.54	-	1
31	2nd	Design & Analysis of Algorithms lab	PCCCS494	4	4	3	4	3	0.67	-	-	-	2	1	-	1	4	3	-	2
32	3rd	Software Engineering	ESC501	4	3	3	2.75	1	3	-	-	-	1.55	-	1.52	5	2	2.23	2.65	2.66
33	3rd	Compiler Design	PCC-CS501	4	3	3	1.87	1	2	-	-	-	-	-	1	1.64	3	3.84	-	2
34	3rd	Operating Systems	PCC-CS502	4	3	2	1.83	1.17	1	0.33	0.33	2.55	2.67	1.52	1.53	2	3	2.17	-	0.83
35	3rd	Object Oriented Programming	PCC-CS503	4	2.86	2.82	2.8	2.45	2	1.65	1.63	1.85	2.84	3	2	3	2.44	2.82	2.47	2.67
36	3rd	Introduction to Industrial Management	HSMC-501	4	2.56	1	1.56	1	1.57	1.57	1.53	1.72	3	3	2	1.57	3	-	1.35	1
37	3rd	Artificial Intelligence	PEC-IT501B	4	3	3	3	3	1.25	2	1	1	2	1.75	3	2	2	1.57	1	1.25
38	3rd	Software Engineering lab	ESC591	4	2.73	3	3.55	3.55	4	-	-	-	3	3.57	2.55	-	2	2.22	2.62	2.67
39	3rd	Operating Systems lab	PCCC5592	4	3	3	2.83	1.67	2.33	-	-	1.17	0.54	-	0.33	1.67	3	2.55	-	0.67
40	3rd	Object Oriented Programming	PCCC5593	3	2.12	2	2.19	1.76	2	1.24	1.44	1.24	2.14	2.13	1.73	2.14	1.85	2.1	1.88	2
41	3rd	Database Management Systems	PCCC5601	4	3	3	3	3	2	2.86	2.34	3	3	2.83	2.33	3	3	3	2	3
42	3rd	Computer Networks	PCCC5602	4	2	1.25	1.25	3	2	1.25	2.25	2.54	1.75	2	1.52	1.53	3	1.75	1.56	2
43	3rd	Distributed Database Management System	PEC-IT601B	4	2.73	2.33	2.46	1.72	1.84	1	1	1.54	2	1	1	1.42	2.75	1.84	2.55	2
44	3rd	Parallel and Distributed Algorithms	PEC-IT602A	4	2.85	2.2	2.26	1.53	1.35	2	-	1	1	-	-	1.82	2.65	1.75	1	1

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
45	3rd	Numerical Methods	OEC(1601A	4	4	4	4	3	-	-	-	-	-	-	-	2	4	3	-	-
46	3rd	Research Methodology	PROJC5601	4	-	2	3.25	1.22	-	-	1.24	1.24	-	-	-	-	2.66	1.83	1	2.8
47	3rd	Database Management Systems lab.	PCCCS691	4	3	3	3	3	2	2.87	2.34	3	3	2.83	2.34	3	3	3	2	3
48	3rd	Computer Networks lab	PCCCS692	4	2	2.25	1.56	2.57	2	1.25	2.25	2.54	1.75	2	1.56	1.53	2.75	1.75	1.75	2
49	4th	Software Engg	CS701	4	3	3	2.74	1	3	-	-	-	1.54	-	1.56	5	2	2.24	2.65	2.63
50	4th	Compiler Design	CS702	4	1.48	1.84	2.64	1.47	1	-	-	-	1.44	-	1.85	1.63	2.86	1.25	-	1
51	4th	Artificial Intelligence	CS703C	4	3	3	3	3	1.25	2	1	1	2	1.75	1	2	2	1.55	1	1.25
52	4th	Cloud Computing	CS704B	4	3	2.89	3	2.59	1	2.39	2.34	2	2.34	2	3.84	3	3	2.55	2.36	2.86
53	4th	Internet Technology	CS705A	4	2.55	2	2.36	2.76	1	1.88	2.54	1.34	1.84	1.82	1.83	1.54	3	2.55	2.35	2.84
54	4th	Group Discussion	HU781	4	-	1	2	1.55	1.25	-	-	-	2.74	3	3	1.64	1	-	2.36	2
55	4th	Software Engg Lab	CS791	4	2.79	3	3.51	3.58	4	-	-	-	3	3.54	2.54	-	2	2.25	2.63	2.64
56	4th	Artificial Intelligence	CS793C	4	3	3	2	2	2	1	1	1	2	1	1	2	2.25	2.25	2	1.56
57	4th	Internet Technology	CS795A	4	2.35	1.88	3	2	2	1.77	1.74	2.34	1.54	2.35	2.35	2	3	2.53	2.36	2.86
58	4th	Industrial Training	CS792	4	1.66	-	-	-	1.63	-	2.45	2.44	2.44	1.63	-	1.63	-	-	-	-
59	4th	Project-I	CS794	4	2.57	3	3	3	3	2.57	3	3	3	2.85	2.95	3	2.86	2.77	2.66	3
60	4th	Organizational Behaviour	HU801A	3	-	-	-	-	-	1.26	1.14	1.84	-	1.85	-	1.53	-	-	1.56	-
61	4th	Cryptography & Network Security	CS801D	4	3	3	3	3	2	2.85	2.35	3	3	2.86	2.36	3	3	3	2	3
62	4th	E-Commerce	CS802E	4	2	1.51	2.55	2	3	2.54	1.57	2.54	2.75	2	2.53	2.25	2.25	2	2.25	1.75
63	4th	Design Lab	CS891	4	4	1.54	4	2.83	2.33	2	-	-	2	1.66	-	1.84	3	2	1	2
64	4th	Project-II	CS892	4	3	3	3	2.8	3	3	3	3	3	2.95	3	3	3	3	3	3
65	4th	Grand Viva	CS893	4	2.78	2	2	1.59	1.33	2	-	1	1	1.54	-	1.75	2.57	2	1.56	2
AVERAGE				3.9384615	2.776481	2.4726667	2.515	2.196	1.877679	1.795366	1.756563	1.702927	1.838627	1.884792	1.637609	1.964815	2.547667	2.163833	1.777907	1.942885

Signature of the HOD/OIC

Coordinator
Department of CSE

Signature of Principal

Principal in Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly.

Hooghly Engineering & Technology College

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	1st	Physics-I	BS-PH101	4	1.75	2.55	1	1	1	-	-	-	-	-	-	1	2	1	-	-
2	1st	Mathematics-I	BS-M101	4	4	3.65	2.45	1.2	1	-	-	-	-	-	1	1	3.43	1.62	-	-
3	1st	Basic Electrical Engineering	CS-EE101	2	1.55	1.33	1.33	0.97	0.5	1	0.95	0.55	-	0.53	0.53	1.53	1.54	0.52	1.53	-
4	1st	Physics-I Laboratory	BS-PH191	4	1.75	1.35	-	1.55	1.55	-	-	-	1.52	1	1	1	3	1	1	1
5	1st	Basic Electrical Engineering Laboratory	CS-EE191	3	0.75	0.75	3	3	0.55	-	0.25	0.75	0.75	0.54	0.75	0.75	1.54	0.52	1.53	-
6	1st	Workshop/ Manufacturing Practices (CE)	ES-ME 192	4	2.65	2.65	2	1.45	1	1.25	1.65	1	1.25	1.64	1	1	4	3.43	3.43	3.63
7	1st	Chemistry-I	BS-CH201	3	1.55	1.45	0.8	2.65	2.65	2.15	2.35	0.95	1.72	1	-	2	1.14	0.83	1.53	0.83
8	1st	Mathematics-II	BS-M201	4	4	3	3	2.65	1	-	-	-	-	-	-	1	4	2	-	-
9	1st	Programming for Problem Solving	ES-CS201	4	4	3.63	3.63	3.75	2.38	-	-	-	1	1	2	-	3	3.25	-	2
10	1st	English	HM-HU201	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
11	1st	Chemistry-I Laboratory	BS-CH291	4	2	2	1	2	2	1.82	2	1.3	1.53	1	1	2	1	1	1	2
12	1st	Programming for Problem Solving Laboratory	ES-CS291	4	3.67	3.67	4	3.67	3	2	-	1	2	2	-	-	3.67	3	1	2
13	1st	Engineering Graphics & Design (CSE)	ES-ME 291	4	1.8	2	1.2	1	1.82	1.82	1.42	1	1	2	1	1	2	1.23	1	1.43
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd	Analog and Digital Electronics	ESC301	2	1.33	1.5	1	1.43	-	-	-	-	-	-	1	-	-	1	-	0.75
16	2nd	Data Structure & Algorithms	PCC-CS301	4	4	4	2	3	3	-	-	-	1	1	0.44	1.64	3.84	3.84	1	2.24
17	2nd	Computer Organisation	PCC-CS302	4	2.14	1.44	0.75	0.75	0.94	1.54	-	-	1.22	1.44	-	-	2.14	1.54	0.754	0.75
18	2nd	Mathematics-III	BSC 301	4	4	2.64	2.6	1	-	-	-	-	-	-	-	1	4	2.6	-	-
19	2nd	Economics for Engineers	HSMC 301	3	2	2	2	2		2		1			3	1	1	1	1	
20	2nd	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC-CS393	4	2.15	2.02	1.25	1.25	0.94	1.77	-	1	1.22	2.02	3	1	2.38	0.23	0.48	0.75
21	2nd	Analog and Digital Electronics lab.	ESC 391	4	3	2.74	2.34	1.34	1.44	-	-	1.54	2	1	1	3	1.67	1	-	1
22	2nd	Data Structure & Algorithms lab.	PCC-CS391	4	3	3.64	3.64	3	3	2	-	2	1	2	-	1	4	3	1	2
23	2nd	Computer Organisation lab.	PCC-CS392	4	3	3	2.34	2	2.34	1.54	1	2	2.53	2.54	1.2	2.7	1.67	-	-	1
24	2nd	Discrete Mathematics	PCCCS401	4	2.14	1.44	1	0.75	0.9	1.54	-	0.75	1.23	1.44	-	-	2.1	1.87	0.75	0.75
25	2nd	Computer Architecture	PCC-CS 402	4	3	2.54	2.54	3	2	1.54	1.54	1	1	1.51	2	1.75	3	2.5	2	2.5
26	2nd	Formal Language & Automata Theory	PCC-CS403	4	4	3.14	3.43	3.29	2	-	-	-	-	-	-	2	3	3.29	-	2
27	2nd	Design & Analysis of Algorithms	PCC-CS404	4	4	3.625	4	3.875	2	-	-	-	1	1	2	-	3	3.25	-	2
28	2nd	Biology	BSC 401	4	-	1.44	1.44	-	-	1.24	-	-	-	-	-	-	1.5	2.8	-	-
29	2nd	Environmental Sciences	MC401	3	1.94	1.34	1.34	1.54	1.34	1.84	1.94	1.34	1	0.84	-	1.1	0.9	0.8	1.3	0.8
30	2nd	Computer Architecture lab.	PCC-CS 492	4	2.74	2	2.34	1.7	1	2	1.54		1	1	2	1.55	1	1.55	-	1
31	2nd	Design & Analysis of Algorithms lab.	PCCCS494	4	4	3	4	3	0.67	-	-	-	2	1	-	1	4	3	-	2
32	3rd	Software Engineering	ESC501	4	3	2.59	2.39	2	2.59	1.39	1	1	-	1	1.89	3	2.79	2.39	2.39	2.79
33	3rd	Compiler Design	PCC-CS501	4	3	3	1.85	1	2	-	-	-	-	-	1	1.69	3	3.89	-	2
34	3rd	Operating Systems	PCC-CS502	4	3	2	1.85	1.75	1	0.35	0.35	2.55	2.78	1.59	1.59	2	3	2.19	-	0.89
35	3rd	Object Oriented Programming	PCC-CS503	4	2.85	2.85	2.85	2.4	2	1.65	1.65	1.85	2.88	3	2	3	2.49	2.89	2.49	2.69
36	3rd	Introduction to Industrial Management	HSMC-501	4	2.55	2	1.55	1	1.55	1.55	1.55	1.75	1	1	1	1.59	1	-	1.39	1
37	3rd	Artificial Intelligence	PEC-IT5018	4	3	3	3	3	1.25	2	1	1	2	1.75	1	2	2	1.59	1	1.25
39	3rd	Software Engineering lab	ESC591	4	1.75	1.85	2.25	1.35	2	-	1	-	-	-	2	-	2	-	2.39	2.79
40	3rd	Operating Systems lab.	PCCCS592	4	3	3	2.85	1.75	2.35	-	-	1.18	0.58	-	0.39	1.79	3	2.59	-	0.69

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41	3rd	Object Oriented Programming	PCCCS593	3	2.15	2	2.15	1.75	2	1.25	1.45	1.27	2.17	2.17	1.77	2.17	1.87	2.17	1.87	0.32
42	3rd	Database Management Systems	PCCCS601	4	3	3	3	3	2	2.85	2.35	3	3	2.80	2.3	3	3	3	2	3
43	3rd	Computer Networks	PCCCS602	4	2	1.25	1.25	3	2	1.25	2.25	2.55	1.75	2	1.57	1.57	3	1.75	1.57	2
44	3rd	Distributed Database Management System	PEC-IT6018	3	2.75	2.35	2.45	1.75	1.85	1	1	1.55	2	1	1	1.47	2.77	1.87	2.57	2
45	3rd	Pattern Recognition	PEC IT6020	4	2.32	1.52	1.52	2	1.82	1.55	2.55	2.75	2.35	1.85	2.57	2.37	2.57	1.57	1.57	2.57
46	3rd	Numerical Methods	OECIT601A	4	4	4	4	3	-	-	-	-	-	-	-	2	-	3	-	-
47	3rd	Research Methodology	PROJCS601	4	1.8	2.82	-	-	1.32	-	-	-	1.3	2	-	-	2.57	-	-	-
48	3rd	Database Management Systems lab.	PCCCS691	4	3	3	3	3	2	2.85	2.35	3	3	2.85	2.37	3	3	3	2	3
49	3rd	Computer Networks lab.	PCCCS692	4	2	2.25	1.52	2.52	2	1.25	2.25	2.55	1.75	2	1.57	1.57	2.75	1.75	1.75	2
50	4th	Cloud Computing	PEC-CS7018	4	3	2.82	3	2.03	1	2.35	2.35	2	2.35	2	1.87	3	3	2.57	2.37	2.87
51	4th	Cyber Security	PEC-CS702E	4	2.52	2	2.02	2.72	1	1.85	2.55	1.35	1.85	1.85	1.87	1.57	3	2.57	2.37	2.87
52	4th	Multimedia Systems	OEC-CS7018	4	3	3	3	3	1.25	2	1	1	2	1.75	1	2	2	1.57	1	1.25
53	4th	Project Management and Entrepreneurship	HSMC701	4	2.52	1.72	1.82	1	1.52	2.32	1.32	1.72	1	1	1	1.52	1	-	1.32	1
54	4th	Project-II	PROJ-CS781	4	3	3	3	3	3	3	3	3	3	2.92	3	3	3	3	3	3
55	4th	Cryptograph y & Network Security	PEC-CS801B	4	3	3	3	3	3	2.82	2.32	3	3	2.82	2.32	3	3	3	2	3
56	4th	Mobile Computing	OEC-CS801C	4	3	2.52	2.22	2	2.52	-	-	-	-	-	1.7	3	2.32	2.22	2.52	2.52
57	4th	E-Commerce and ERP	OEC-CS802A	4	2	1.52	2.52	2	3	2.52	1.52	2.52	2.75	2	2.52	2.25	2.25	2	2.25	1.75
58	4th	Project-III	PROJ-CS881	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
AVERAGE				3.8295	2.705926	2.390818	2.310943	2.14783	1.7808	1.785526	1.691935	1.704474	1.77814	1.769318	1.644651	1.824583	2.507547	2.158654	1.706054	1.871818

Signature of the HOD/DIC

Mr. Dibyendu Samanta
DIC, Dept. of CSE
HETC, Hooghly.

Signature of Principal

Principal in Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly.

Hooghly Engineering & Technology College

Department of Computer Science and Engineering

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1	1st	Physics-I	BS-PH101	1	0.42	0.62	0.32	0.32	0.32	-	-	-	-	-	-	2.36	0.52	0.32	-	-
2	1st	Mathematics-I	BS-M101	1	1	0.92	0.62	0.32	0.32	-	-	-	-	-	0.32	0.32	0.92	0.42	-	-
3	1st	Basic Electrical Engineering	CS-EE101	4	3	2.67	2.67	1.25	1	2	1.83	1	-	1	1	3	3	1	3	-
4	1st	Physics-I Laboratory	BS-PH191	3	1.32	1	0	1.12	1.12	-	-	-	1.12	0.82	0.82	0.82	2.3	0.82	0.82	0.82
5	1st	Basic Electrical Engineering Laboratory	CS-EE191	4	2.62	2.62	2	1.42	1	2	1.62	1	2.58	1.62	1	1	4	3.42	3.42	3.62
6	1st	Workshop/ Manufacturing Practices (CE)	ES-ME 192	4	2.62	2.62	2	1.42	1	1.22	1.62	1	1.22	1.62	1	1	4	3.42	2.36	3.62
7	1st	Chemistry I	BS-CH201	1	0.52	0.52	0.32	0.92	0.92	0.72	0.82	0.32	0.62	2.36	-	0.72	0.4	0.32	0.52	0.32
8	1st	Mathematics-II	BS-M201	1	1	0.82	0.82	0.72	0.32	-	-	-	-	-	-	0.32	1	0.52	-	-
9	1st	Programming for Problem Solving	ES-CS201	3	3	2.72	2.72	2.81	1.78	-	-	-	0.75	0.75	1.52	-	2.25	2.44	-	1.52
10	1st	English	HM-HU201	2	-	-	-	-	-	0.25	-	0.52	0.52	1	0.52	0.25	-	0.75	-	-
11	1st	Chemistry I Laboratory	BS-CH291	4	2	1	1	2	2	2	2	1.32	2.56	1	1	2	1	1	1	2
12	1st	Programming for Problem Solving Laboratory	ES-CS291	4	3.67	3.67	4	3.67	3	2	-	1	2	2	-	-	3.67	3	1	2
13	1st	Engineering Graphics & Design (CSE)	ES-ME 291	4	1.82	1	1.22	1	1.82	1.82	1.42	1	1	2	1	1	2	1.23	1	1.43
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd	Analog and Digital Electronics	ESC301	2	0.72	0.82	0.52	0.72	-	-	-	-	-	-	0.52	-	-	0.52	-	0.75
16	2nd	Data Structure & Algorithms	PCC-CS301	2	2	2	1	1.52	1.52	-	-	-	0.52	0.52	0.22	0.82	1.92	1.92	0.52	1.12
17	2nd	Computer Organisation	PCC-CS302	2	2.12	1.42	0.75	0.75	0.92	1.52	-	-	1.22	1.42	-	-	2.12	1.52	0.75	0.75
18	2nd	Mathematics-III	BSC 301	1	1	0.72	0.72	0.32	-	-	-	-	-	-	-	0.34	1	0.7	-	-
19	2nd	Economics for Engineers	HSMC 301	3	2	2	2	2	-	2	-	1	-	-	3	1	1	1	1	
20	2nd	IT Workshop (Sci Lab/MATLAB/Python/R)	PCC-CS393	4	2.25	2.52	2.25	2.25	2.52	1.75	1.52	1.52	1.75	2.25	2	2	2.52	2.25	2.75	2.75
21	2nd	Analog and Digital Electronics lab.	ESC 391	4	3	2.74	2.34	1.34	1.41	-	-	1.54	2	1	1	3	1.66	1	-	1
22	2nd	Data Structure & Algorithms lab.	PCC-CS391	4	3	3.64	3.61	3	3	2	-	2	1	2	-	1	4	3	1	2
23	2nd	Computer Organisation lab.	PCC-CS392	4	3	3	2.31	2	2.31	1.54	1	2	2.54	2.54	1.71	2.74	1.67	-	-	1
24	2nd	Discrete Mathematics	PCCCS401	2	2.36	1.24	1.21	1	1.21	0.74	0.51	0.56	-	0.51	0.84	1.51	1.41	1.22	1.2	1.32
25	2nd	Computer Architecture	PCC-CS 402	4	3	2.54	2.51	3	2	1.51	1.51	1	1	1.51	2	1.75	3	2.52	2	2.52
26	2nd	Formal Language & Automata Theory	PCC-CS403	2	2	1.57	1.71	1.64	1	-	-	-	-	-	-	1	1.51	1.64	-	1
27	2nd	Design & Analysis of Algorithms	PCC-CS404	2	2	3.62	4	3.87	2	-	-	-	1	1	2	-	3	3.25	-	2
28	2nd	Biology	BSC 401	2	-	0.72	0.72	-	-	0.62	-	-	-	-	-	-	0.82	1.42	-	
29	2nd	Environmental Sciences	MC401	2	1.32	0.82	0.92	1	0.82	1.22	1.32	0.82	0.72	0.52	0.52	0.82	0.62	0.52	0.82	0.52
30	2nd	Computer Architecture lab.	PCC-CS 492	4	2.72	2	2.32	1.72	1	2	1.52	-	1	1	2	1.52	1	1.52	-	1
31	2nd	Design & Analysis of Algorithms lab.	PCCCS494	4	4	3	4	3	0.67	-	-	-	2	1	-	1	4	3	-	2
32	3rd	Software Engineering	ESC501	3	2.32	1.92	1.82	1.52	1.92	1	0.82	0.82	-	0.82	1.32	2.32	-	1.82	1.82	2
33	3rd	Compiler Design	PCC-CS501	2	1.52	1.52	0.92	0.52	1	-	-	-	-	-	0.52	0.82	1.52	1.92	-	1
34	3rd	Operating Systems	PCC-CS502	2	1.52	1	0.92	0.62	0.52	0.22	1.72	1.25	1.32	0.75	0.75	1	1.52	1.12	0	0.52
35	3rd	Object Oriented Programming	PCC-CS503	3	2.12	2.12	2.12	1.82	1.52	1.22	1.22	1.42	2.12	2.32	1.52	2.3	1.82	2.12	1.82	2
36	3rd	Introduction to Industrial Management	HSMC-501	2	1.32	0.52	0.82	0.52	0.8	0.82	0.82	0.82	0.52	0.52	0.52	0.82	0.52	-	0.72	0.5
37	3rd	Artificial Intelligence	PEC-IT5018	3	2.25	2.25	2.25	2.25	0.93	1.52	0.75	0.75	1.52	1.31	0.75	1.52	1.52	1.12	0.75	0.35
38	3rd	Constitution of India	MC- CS501A	1	2.72	2	2	-	-	-	-	-	-	2	-	2	1.5	1	1	-
39	3rd	Software Engineering lab.	ESC591	4	1.72	1.82	2.22	1.32	2	-	1	-	-	-	2	-	2	-	2.3	2.7
40	3rd	Operating Systems	PCCC5592	4	3	3	2.92	1.72	2.32	-	-	1.12	0.52	-	0.32	1.72	3	2.5	-	0.7

Hooghly Engineering & Technology College

Department of Computer Science and Engineering

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
41	3rd	Object Oriented Programming	PCCCS593	4	2.82	2.62	2.82	2.22	2.62	1.62	1.82	1.62	2.82	2.82	2.22	2.82	2.42	2.8	2.4	2.6
42	3rd	Database Management Systems	PCCCS601	3	3	2.32	2.32	2.32	1.52	2.36	1.72	2.32	2.32	2.12	1.7	2.32	2.32	2.3	1.5	2.3
43	3rd	Computer Networks	PCCCS602	2	3	3	2	1	1	2	1	2	1	1	3	1	3	2	1	1
44	3rd	Distributed Database Management System	PEC-IT601B	2	1.32	1.22	1.22	0.82	0.92	0.52	0.52	0.82	1	0.52	0.52	0.72	1.32	0.9	1.3	1.3
45	3rd	Data Warehousing & Data Mining	PEC-IT602B	2	2.25	1.31	0.75	0.75	1	1.52	0.75	0.75	0.75	1.52	0.75	2.35	1.63	1.5	1.5	1.25
46	3rd	Numerical Methods	OEC/IT601A	2	2	2	2	1.52	-	-	-	-	-	-	-	1	2	1.5	-	-
47	3rd	Research Methodology	PROJCS601	4	1.82	2.82	-	-	1.32	-	-	-	1.32	2	-	-	2.52	-	-	-
48	3rd	Database Management Systems lab.	PCCCS691	4	4	3	3	3	2	2.82	2.32	3	3	2.82	2.32	3	3	3	2	3
49	3rd	Computer Networks lab.	PCCCS692	4	3	3	3	2	2	2	1	3	3	2	2	3	3	2	2.25	2
50	4th	Cloud Computing	PEC-CS701B	2	1.52	1.42	1.52	1.32	0.52	1.12	1.12	1	1.12	1	0.92	1.52	1.52	1.3	1.12	1.42
51	4th	Cyber Security	ECCS702E	3	1.92	1.52	1.72	2	0.82	1.32	1.92	0.92	1.32	1.32	1.32	1.12	2.32	1.9	1.72	2
52	4th	Multimedia Systems	OEC-CS701B	3	0.39	0.39	0.39	0.26	0.26	0.26	0.13	0.39	0.39	0.26	0.26	0.39	0.39	2.23	3.25	2.01
53	4th	Project Management and Entrepreneurship	HSMC701	3	1.95	1.35	1.35	0.85	1.15	1.85	1	1.35	0.85	0.85	0.85	1.15	0.85	-	1	0.85
54	4th	Project-II	PROJ-CS781	4	3	3	3	3	3	3	3	3	2.85	3	3	3	2.85	3	3	3
55	4th	Cryptography & Network Security	PEC-CS801B	3	3	2.35	2.35	2.35	1.55	2.15	1.75	2.35	2.35	2.15	1.75	2.35	2.35	2.35	1.55	2.35
56	4th	Mobile Computing	OEC-CS801C	2	1.55	1.35	1.15	1	1.35	-	-	-	-	-	0.85	1.55	1.25	1.15	1.35	1.35
57	4th	E-Commerce and ERP	OEC-CS802A	3	2	1.55	2.55	2	3	2.55	1.55	2.55	2.75	2	2.55	2.25	2.25	2	2.25	1.75
58	4th	Project-III	PROJ-CS881	4	2	2	3	3	3	3	3	3	2.75	3	3	3	2.85	3	3	3
Average				2.8620	2.154727	1.909286	1.831091	1.618868	1.4604	1.558462	1.382424	1.416579	1.540714	1.545333	1.348889	1.5466	1.991667	1.58359	1.4604	1.652391

Signature of the HOD/DIC

H.O.D.
Computer Science and Engineering
Hooghly Engineering & Technology College

Signature of Principal

Principal in Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly.

Hooghly Engineering & Technology College

Attainment

Civil Engineering Department

Hooghly Engineering & Technology College																			
Civil Engineering Department																			
Session: 2018-2019																			
Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH101	1	0.4	0.6	0.3	0.3	0.3	0	0	0	0	0	0	0.3	0.5	0.4	0
2	1st	Mathematics –IB	BS-M102	1	1	1	0.6	0.5	0	0	0	0	0	0	0	0.8	0.6	0.3	0
3	1st	Basic Electrical Engineering	ES-EE101	1	1	0.8	0.4	0.3	0.3	_	0.3	_	_	0.3	_	0.4	1	0.4	_
4	1st	Physics-I Laboratory	BS-PH191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	0.8	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3	1
6	1st	Workshop/Manufacturing Practices	ES-ME192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st	Chemistry-I	BS-CH201	1	0.5	0.5	0.3	0.9	0.9	0.7	0.8	0.3	0.6	0.3	0	0.7	0.3	0.3	0.5
8	1st	Mathematics –IIB	BS-M202	1	1	1	0.6	0.5	-	-	-	-	-	-	-	0.8	0.6	0.3	-
9	1st	Programming for Problem Solving	ES-CS201	1	0.7	0.8	0.7	0.6	0.8	0.6	0.5	0.6	0.6	0.5	0.4	0.7	0.5	0.5	0.6
10	1st	English	HM-HU201	3	-	-	-	-	-	0.75	-	1.5	1.5	3	1.5	0.75		2.25	
11	1st	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st	Programming for Problem Solving	ES-CS291	3	2.1	2.4	2	1.8	2.3	1.9	1.5	1.7	1.8	1.4	1.3	2.1	1.5	1.6	1.9
13	1st	Engineering Graphics & Design	ES-ME291	4	3	2.8	3.6	2.6	2.8	3	2.6	2.2	2.4	2.8	2	2.4	3	3	2.8
14	1st	Language Laboratory	HM-HU291	4	-	-	-	-	-	1		2	2	4	2	1		3	
15	2nd	Values & Ethics in Profession	HU301	3	_	_	_	_	_	2.25	2.25	2.4	_	3	_	3	_	_	2.63
16	2nd	Physics - 2	PH301	1	0.4	0.6	0.3	0.3	0.3	0	0	0	0	0	0	0.3	0.5	0.4	0
17	2nd	Basic Environmental Engineering & Elementary Biology	CH301	2	1.3	0.8	0.9	1	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.6	1	0.7
18	2nd	Solid Mechanics	CE301	1	0.6	0.6	0.5	0.5	0.15	0.4	0.9	0.25	0.35	0.3	0.1	0.6	0.6	0.15	0.4

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Civil Engineering Department H.E.T.C. Hooghly

Hooghly Engineering & Technology College																			
Civil Engineering Department																			
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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
19	2nd	Surveying	CE302	3	2.25	2.13	1.88	1.75	0.63	0.13	0	0	0	0	0	0	1.75	0.88	0.25
20	2nd	Building Material & Construction	CE303	2	1.25	1.25	1	1.25	0.25	0.75	1.83	0.6	0.8	0.7	0.3	1.3	1.25	0.25	0.92
21	2nd	Physics - 2	PH391	3	1.3	1.3	1	1.3	0.3	0.8	1.8	0.6	0.8	0.7	0.3	1.3	1.3	0.3	0.9
22	2nd	Solid Mechanics	CE391	3	1.5	0.88	-	2.25	1.5	-	-	-	1.5	1.75	-	1.5	1.37	2.25	0.75
23	2nd	Surveying Practice I	CE392	3	1.37	1.37	-	2.12	1	-	-	0.75	0.75	0.38	1.5	-	1.37	0.38	2.12
24	2nd	Building Design & Drawing	CE393	3	2.1	-	1.35	1.35	1.35	0.9	1.05	1.35	0.75	1.65	1.35	1.8	2.1	0.45	1.35
25	2nd	Numerical Methods	M(CS)401	2	2	1.5	2	1.3	0	0	0	0	0	0	0	0.5	0.5	0.5	0
26	2nd	Mathematics - 3	M402	1	1	0.8	0.5	0	0	0	0	0	0	0	0	0.7	0.7	0.5	0
27	2nd	Fluid Mechanics	CE401	2	1.25	1.25	1	1.25	0.25	0.75	1.83	0.6	0.8	0.7	0.3	1.3	1.25	0.25	0.92
28	2nd	Structural Analysis	CE402	2	1.2	1.2	1.1	1.1	0.3	0.8	1.8	0.5	0.7	0.6	0.2	1.2	1.2	0.3	0.8
29	2nd	Soil Mechanics	CE403	2	1.58	1	1.08	1	1.16	1.25	1.33	1.33	1.25	1.08	1	1	1.41	1	1.25
30	2nd	Technical Report Writing & Language Lab Practice	HU481	4	_	_	_	_	_	1		2	2	4	2	1		3	
31	2nd	Numerical Methods	M(CS)491	4	2	1.5	2	1.3	0	0	0	0	0	0	0	0.5	0.5	0.5	0
32	2nd	Fluid Mechanics	CE491	4	2	1	1	2.83	1	-	-	-	2	1	1.83	1	2	2.83	1
33	2nd	Surveying Practice -II	CE492	3	1.5	1.37	0.62	2.12	1	-	-	1.37	0.75	0.75	1.5	-	1.5	0.75	2.12
34	2nd	Soil Mechanics Lab - I	CE493	4	2.33	2.17	-	2.33	1.83	-	1	-	3	-	-	1.83	3	2	2
35	3rd	Economics for Engineers	HU501	2	_	_	_	_	_	1.3	1.6	1.5	_	1.6	_	1.9	_	_	1.5
36	3rd	Foundation Engineering	CE501	1	0.92	0.5	0.62	0.29	0.38	-	0.08	-	0.58	0.38	0.5	0.5	0.92	0.42	0.29
37	3rd	Design of RC Structures	CE502	2	1.34	1.25	1.58	0.67	0.67	0.67	0.67	0.25	1.08	0.42	1.08	1.08	1.42	0.67	1.08

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
38	3rd	Concrete Technology	CE503	2	1.25	0.92	0.5	0.42	0.17	0.09	0.25	-	0.66	0.34	0.66	0.58	1.5	2.5	0.66
39	3rd	Engineering Geology	CE504	2	1.16	0.5	0.5	1.08	1.16	1.16	1.41	1.25	1	1	1.25	1.08	1	1.08	1.16
40	3rd	Soil Mechanics Lab – II	CE591	4	2.33	2.17	-	2.33	1.83	-	1	-	3	-	-	1.83	3	2	2
41	3rd	Concrete Laboratory	CE592	4	2.33	2	-	0.83	-	-	-	-	2	0.33	1	2	2.5	-	2
42	3rd	Quantity Surveying, Specifications and Valuation	CE593	3	1.95	1.5	1.5			1.5		1.5		1.5	1.68	1.35	1.8	1.5	1.5
43	3rd	Engineering Geology Laboratory	CE594	4	2.5	2	-	-	-	-	-	-	1.66	0.33	-	1.66	0.83	-	0.33
44	3rd	Principles of Management	HU601	2	–	–	–	–	–	1.5	1.5	1.6	–	1.8	–	2	–	–	1.7
45	3rd	Highway & Transportation Engineering	CE601	3	2.4	2.6	2.8	2.3	2.1	1.9	2.8	2.3	1.9	1.5	2.3	2.4	3	2.3	1.9
46	3rd	Design of Steel Structure	CE602	1	0.5	0.9	0.9	0.9	0.6	0.5	0.4	0.4	0.5	0.3	0.3	0.7	0.7	0.7	0.6
47	3rd	Construction Planning and Management	CE603	3	0.54	–	–	–	0.21	1.5	0.54	–	2.25	1.82	2.25	–	–	–	0.75
48	3rd	Prestressed Concrete	CE604B	2	1.42	1.42	0.92	–	–	0.5	–	–	–	–	–	1	1	–	–
49	3rd	Human Resource Management	CE605B	2	–	–	–	–	–	1.5	1.5	1.6	–	1.8	–	2	–	–	1.7

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
50	3rd	Highway & Transportation Engineering Lab	CE691	4	2.17	2	1.5	-	-	0.33	-	-	-	0.33	1.5	2	2.67	-	-
51	3rd	Detailing of RC and Steel Structures	CE692	3	1.5	2	0.88	2.25	1.88	0.75	-	-	0.5	-	0.88	0.25	2.25	-	1.5
52	3rd	CAD Laboratory	CE693	4	3	2.86	2.71	2.72	3	2	-	-	2	-	-	3	3	3	2
53	3rd	Seminar	CE694	4	3	3	2.85	2.7	3	2.5	2	-	2.5	-	-	2	3	3	3
54	4th	Environmental Engineering	CE701	2	3	2.5	2.5	1.5	0.5	3	2.83	2.5	1.5	2.67	2	1.67	1	-	-
55	4th	Water Resource Engineering	CE702	2	1.5	1.08	1	0.7	0	0	0	0	0	0	0	0	1.25	0	0
56	4th	Advanced Highway and Transportation Engineering	CE703C	2	1.8	1.8	1.9	1.4	1.7	1.2	1.2	1.2	1.8	1.1	1.7	1.4	1.7	1.8	1.4
57	4th	Hydraulic Structures	CE704B	2	1.2	1.2	1.2	1.4	0.9	1	1	0.5	1.1	0.7	0.8	1.5	1.7	1.5	1.1
58	4th	Electrical and Electronic Measurement	CE705B	3	3	1.5	1	3	1.4	2	1.5	3	1.3	1.4	1	1.3	1.5	1.5	2
59	4th	Group Discussion	HU781	4	_	_	_	_	_	_	_	_	2.83	2.83	_	1.67	_	_	3
60	4th	Environmental Engineering Lab	CE791.	3	1.5	1	1.75	0.87	0.5	0.62	1.37	-	2.1	-	0.75	1.37	1.75	0.5	2.12
61	4th	Civil Engineering Practice Sessional	CE792	3	2.25	1.63	1.31	0.75	0	0	0	0	0	0	0	0	2.25	0.25	0

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Civil Engineering Department																			
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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
62	4th	Electrical and Electronic Measurement Laboratory	CE793B	2	2	1.5	1	2	1.4	2	1.5	2	1.3	1.4	1	1.3	1.5	1.5	2
63	4th	Industrial Training	CE782	4	1.5	1.5	1.5	1	1.67	1.5	1.67	2.17	2.67	2.83	2	0.83	1.5	1.67	2.67
64	4th	Project Part I	CE783	3	0.62	0.62	2	1.88	1.5	1.37	0.5	0.38	2	0.5	1.62	1.5	0.62	1.5	2
65	4th	Organisational Behaviour/ Project Management	HU801A HU801B	3	–	–	–	–	–	1.2	1.1	1.6		1.8	–	1.5	–	–	1.5
66	4th	Environmental Pollution and Control	CE801A	2	3	2.5	2.5	1.5	0.5	3	2.83	2.5	1.5	2.67	2	1.67	1	-	-
67	4th	Pavement Design	CE802D	3	2.8	2.6	2.3	1.9	2.8	2.3	2.4	2.1	2.1	1.7	2.1	2.4	2.6	2.1	1.1
68	4th	Structural Engineering Design Practice	CE891	4	3	2.5	2.5	3	1.17	2.83	2.83	2.5	2.33	2.67	2.33	2.67	1	-	-
69	4th	Project Part II	CE881	3	1.88	1.88	2	1.88	1.5	1.37	0.5	0.38	2	0.5	1.63	1.5	1.88	1.5	2
70	4th	Grand – Viva	CE882	4	2.6	1.33	2	1		1	1	1	1	2.8	1	1.8	2.6	1	1.8
			Average =	2.7	1.8	1.6	1.4	1.5	1.1	1.2	1.2	1.2	1.4	1.3	1.1	1.3	1.6	1.4	1.4

Prof. (Dr.) Sumanta Bhattacharyya
Principal
Hooghly Engineering & Technology College

25/7/18

Civil Engineering Department
H.E.T.C.
Hooghly

Hooghly Engineering & Technology College

Civil Engineering Department

Session: 2019-2020

Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st year	Physics-I	BS-PH101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1st year	Mathematics –IB	BS-M102	1.0	1.0	1.0	0.6	0.5	-	-	-	-	-	-	-	0.8	0.6	0.3	-
3	1st year	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1.0	0.4	-
4	1st year	Physics-I Laboratory	BS-PH191	3.0	1.3	1.0	0.0	1.1	1.1	0.0	0.0	0.0	1.1	0.8	0.8	0.8	1.5	0.8	1.5
5	1st year	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	-	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st year	Workshop/Manufacturing Practices	ES-ME192	4.0	2.6	2.6	2.0	1.4	1.0	1.2	1.6	1.0	1.2	1.6	1.0	1.0	4.0	3.4	3.4
7	1st year	Chemistry-I	BS-CH201	2.0	1.0	0.9	0.5	1.8	1.7	1.4	1.5	0.6	1.1	0.7	0.0	1.3	0.7	0.5	1.0
8	1st year	Mathematics –IIB	BS-M202	4.0	4.0	4.0	2.5	2.5	-	-	-	-	-	-	-	2.8	2.8	1.0	-
9	1st year	Programming for Problem Solving	ES-CS201	4.0	2.8	2.8	1.5	2.5	3.0	2.6	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
10	1st year	English	HM-HU201	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	-
11	1st year	Chemistry-I Laboratory	BS-CH291	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.0
12	1st year	Programming for Problem Solving	ES-CS291	4.0	2.6	2.6	3.0	2.2	3.0	2.4	2.8	2.2	3.0	2.4	2.0	3.0	2.4	2.4	2.8
13	1st year	Engineering Graphics & Design	ES-ME291	4.0	1.8	1.0	1.2	1.0	1.8	1.8	1.4	1.0	1.0	2.0	1.0	1.0	3.0	3.6	2.4
14	1st year	Language Laboratory	HM-HU291	4.0	-	-	-	-	-	1.0		2.0	2.0	4.0	2.0	1.0	-	3.0	-
15	2nd year	Biology for Engineers	CE(BS)301	2.0	-	0.7	0.7	-	-	0.6	-	-	-	-	-	-	0.8	0.9	-
16	2nd year	Engineering Mechanics	CE(ES)301	1.0	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.0
17	2nd year	Energy Science & Engineering	CE(ES)302	3.0	3.0	2.3	2.2	1.5	0.8	2.3	2.2	2.5	2.0	2.3	3.0	2.3	1.0	-	-
18	2nd year	Mathematics-III (Transform & Discrete Mathematics)	CE(BS)302	2.0	2.0	2.0	1.5	-	-	-	-	-	-	-	0.5	0.8	0.8	0.5	-
19	2nd year	Humanities-I (Effective Technical Communication)	CE(HS)301	3.0	-	-	-	-	-	0.8	0.0	1.5	1.5	3.0	1.5	0.8	0.0	2.3	-
20	2nd year	Introduction to Civil Engineering	CE(HS)302	3.0	2.4	0.8	0.8	1.6	1.8	2.3	2.0	1.9	1.8	1.8	1.9	1.5	2.3	1.5	1.6

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21	2nd year	Basic Electronics	CE(ES)391	3.0	1.5	1.0	1.8	0.9	0.5	0.6	1.4	-	2.1	-	0.8	1.4	1.8	0.5	2.1
22	2nd year	Computer-aided Civil Engineering Drawing	CE(ES)392	4.0	2.8	-	1.8	1.8	1.8	1.2	1.4	1.8	1.0	2.2	1.8	2.4	2.8	0.6	1.8
23	2nd year	Life Science	CE(ES)393	3.0	2.0	1.6	2.1	1.1	2.1	2.4	-	-	-	-	-	-	2.6	2.1	-
24	2nd year	Introduction to Fluid Mechanics	CE(ES)401	4.0	2.8	2.7	2.0	2.5	0.5	1.5	3.7	1.2	1.8	1.3	0.7	2.5	2.5	0.5	1.8
25	2nd year	Introduction to Solid Mechanics	CE(ES)402	4.0	2.4	2.4	2.2	2.2	0.6	1.6	3.6	1.0	1.4	1.2	0.4	2.4	2.4	0.6	1.6
26	2nd year	Soil Mechanics – I	CE(PC)401	4.0	3.5	2.5	2.2	2.3	2.3	2.2	2.8	2.2	2.5	2.0	1.8	2.0	2.7	2.0	1.8
27	2nd year	Environmental Engineering - I	CE(PC)402	4.0	3.0	2.5	2.5	1.5	0.5	3.0	2.8	2.5	1.5	2.7	2.0	1.7	1.0	-	-
28	2nd year	Surveying & Geomatics	CE(PC)403	4.0	3.0	2.7	1.8	2.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.3	0.3
29	2nd year	Concrete Technology	CE(PC)404	4.0	2.5	1.8	1.0	0.8	0.3	0.2	0.5	-	1.3	0.7	1.3	1.2	3.0	0.5	1.3
30	2nd year	Civil Engineering - Societal & Global Impact	CE(HS)401	4.0	2.3	2.0	1.8	1.7	1.3	3.3	3.8	2.5	2.2	1.8	2.0	1.2	2.5	2.2	2.5
31	2nd year	Management I (Organizational Behavior)	CE(MC)401	4.0	_	_	_	_	_	3.0	3.0	3.2	_	3.0	_	3.6	_	_	3.4
32	2nd year	Fluid Mechanics Laboratory	CE(ES)491	4.0	2.0	1.0	1.0	2.8	1.0	-	-	-	2.0	1.0	1.8	1.0	2.0	2.8	1.0
33	2nd year	Solid Mechanics Laboratory	CE(ES)492	4.0	2.0	1.2	-	3.0	2.0	-	-	-	2.0	2.3	-	2.0	1.8	3.0	1.0
34	2nd year	Engineering Geology Laboratory	CE(ES)493	4.0	2.5	2.0	-	-	-	-	-	-	1.7	0.3	-	1.7	0.8	-	0.3
35	2nd year	Surveying & Geomatics	CE(PC)493	4.0	2.8	2.5	2.8	0.3	0.2	1.7	1.5	1.3	2.3	2.7	2.5	1.5	2.5	2.2	2.2
36	2nd year	Concrete Technology Laboratory	CE(PC)494	4.0	2.4	1.6	1.4	1.9	1.7	0.4	0.3	0.7	0.9	0.9	0.9	1.0	2.4	1.7	2.3
37	3rd year	Economics for Engineers	HU501	2.0	_	_	_	_	_	1.3	1.6	1.5	_	1.6	_	1.9	_	_	1.5
38	3rd year	Foundation Engineering	CE501	2.0	1.8	1.0	1.3	0.6	0.8	-	0.2	-	1.2	0.8	1.0	1.0	1.8	0.8	1.2
39	3rd year	Design of RC Structures	CE502	3.0	2.0	1.9	2.4	1.0	1.0	1.0	1.0	0.4	1.6	0.6	1.6	1.6	2.1	1.0	1.6
40	3rd year	Concrete Technology	CE503	3.0	1.9	1.4	0.8	0.6	0.3	0.1	0.4	-	1.0	0.5	1.0	0.9	2.3	0.4	1.0

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
41	3rd year	Engineering Geology	CE504	3.0	1.7	0.8	0.8	1.6	1.7	1.7	2.1	1.9	1.5	1.5	1.9	1.6	1.5	1.6	1.7
42	3rd year	Soil Mechanics Lab – II	CE591	3.0	1.8	1.6	-	1.8	1.4	-	0.8	-	2.3	-	-	1.4	2.3	1.5	1.5
43	3rd year	Concrete Laboratory	CE592	4.0	2.3	2.0	-	0.8	-	-	-	-	2.0	0.3	1.0	2.0	2.5	-	2.0
44	3rd year	Quantity Surveying, Specifications and Valuation	CE593	4.0	2.6	2.0	2.0	-	-	2.0	-	2.0	-	2.0	2.3	1.8	2.4	2.0	2.0
45	3rd year	Engineering Geology Laboratory	CE594	4.0	2.5	2.0	-	-	-	-	-	-	1.7	0.3	-	1.7	0.8	-	0.3
46	3rd year	Principles of Management	HU601	4.0	-	-	-	-	-	3.0	3.0	3.2	-	3.6	-	4.0	-	-	3.4
47	3rd year	Highway & Transportation Engineering	CE601	4.0	3.3	3.5	3.8	3.0	2.8	2.5	3.8	3.0	2.5	2.0	3.0	3.3	4.0	3.0	2.5
48	3rd year	Design of Steel Structure	CE602	4.0	2.1	3.4	3.7	3.6	2.6	2.0	1.6	1.4	1.9	1.1	1.3	2.7	2.9	2.7	2.6
49	3rd year	Construction Planning and Management	CE603	4.0	0.7	_	_	_	0.3	2.0	0.7	_	3.0	2.4	3.0	_	_	_	1.0
50	3rd year	Prestressed Concrete	CE604B	4.0	2.8	2.8	1.8	_	_	1.0	_	_	_	_	_	2.0	2.0	_	_
51	3rd year	Human Resource Management	CE605B	4.0	_	_	_	_	_	1.2	1.1	1.6		1.8	_	1.5	_	_	1.5
52	3rd year	Highway & Transportation Engineering Lab	CE691	4.0	2.2	2.0	1.5	-	-	0.3	-	-	-	0.3	1.5	2.0	2.7	-	-
53	3rd year	Detailing of RC and Steel Structures	CE692	4.0	2.0	2.7	1.2	3.0	2.5	1.0	-	-	0.7	-	1.2	0.3	3.0	-	2.0
54	3rd year	CAD Laboratory	CE693	4.0	3.0	2.9	2.7	2.7	3.0	2.0	-	-	2.0	-	-	3.0	3.0	3.0	2.0
55	3rd year	Seminar	CE694	4.0	3.0	2.9	2.7	3.0	3.0	2.5	2.3	-	2.0	-	-	3.0	3.0	3.0	3.0
56	4th year	Environmental Engineering	CE701	2.0	3.0	2.5	2.5	1.5	0.5	3.0	2.8	2.5	1.5	2.7	2.0	1.7	1.0	-	-
57	4th year	Water Resource Engineering	CE702	3.0	2.3	1.6	1.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
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58	4th year	Advanced Highway and Transportation Engineering	CE703C	3.0	2.7	2.7	2.9	2.1	2.6	1.8	1.8	1.8	2.7	1.8	2.6	2.1	2.6	2.7	2.1
59	4th year	Hydraulic Structures	CE704B	3.0	1.8	1.8	1.8	2.1	1.4	1.5	1.5	0.8	1.7	1.1	1.2	2.3	2.6	2.3	1.7
60	4th year	Electrical and Electronic Measurement	CE705B	4.0	4.0	3.5	3.0	2.7	2.2	2.0	2.0	1.0	4.0	3.8	1.7	4.0	-	-	-
61	4th year	Group Discussion	HU781	4.0	-	-	-	-	-	-	-	-	2.8	2.8	-	1.7	-	-	3.0
62	4th year	Environmental Engineering Lab	CE791.	3.0	1.5	1.0	1.8	0.9	0.5	0.6	1.4	-	2.1	-	0.8	1.4	1.8	0.5	2.1
63	4th year	Civil Engineering Practice Sessional	CE792	1.0	0.8	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.0
64	4th year	Electrical and Electronic Measurement Laboratory	CE793B	2.0	2.0	1.5	1.0	2.0	1.4	2.0	1.5	2.0	1.3	1.4	1.0	1.3	1.5	1.5	2.0
65	4th year	Industrial Training	CE782	4.0	1.5	1.5	1.5	1.0	1.7	1.5	1.7	2.2	2.7	2.8	2.0	0.8	1.5	1.7	2.7
66	4th year	Project Part I	CE783	4.0	0.8	0.8	2.7	2.5	2.0	1.8	0.7	0.5	2.7	0.7	2.2	2.0	0.8	2.0	2.7
67	4th year	Organisational Behaviour/ Project Management	HU801A HU801B	3.0	-	-	-	-	-	1.2	1.1	1.6	-	1.8	-	1.5	_	_	1.5
68	4th year	Environmental Pollution and Control	CE801A	2.0	3.0	2.5	2.5	1.5	0.5	3.0	2.8	2.5	1.5	2.7	2.0	1.7	1.0	-	-
69	4th year	Pavement Design	CE802D	4.0	3.8	3.5	3.0	2.5	3.7	3.0	3.3	2.8	2.8	2.3	2.8	3.3	3.5	2.8	1.5
70	4th year	Structural Engineering Design Practice	CE891	4.0	3.0	2.5	2.5	3.0	1.2	2.8	2.8	2.5	2.3	2.7	2.3	2.7	1.0	-	-
71	4th year	Project Part II	CE881	4.0	2.5	2.5	2.7	2.5	2.0	1.8	0.7	0.5	2.7	0.7	2.2	2.0	2.5	2.0	2.7
72	4th year	Grand – Viva	CE882	4.0	2.6	1.3	2.0	1.0		1.0	1.0	1.0	1.0	2.8	1.0	1.8	2.6	1.0	1.8
			Average =	3.3	2.3	1.9	1.8	1.7	1.4	1.5	1.6	1.5	1.8	1.7	1.5	1.7	2.0	1.6	1.7

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Principal
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Civil Engineering Department
H.E.T.C.
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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st year	Physics-I	BS-PH101	3	1.3	1.9	0.8	0.8	0.8	0	0	0	0	0	0	0.8	1.5	1.1	0
2	1st year	Mathematics –IB	BS-M102	3	3	3	1.8	1.5	-	-	-	-	-	-	-	2.3	1.7	0.8	-
3	1st year	Basic Electrical Engineering	ES-EE101	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	_	0.4	1	0.4	-
4	1st year	Physics-I Laboratory	BS-PH191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	0.8	1.5
5	1st year	Basic Electrical Engineering Laboratory	ES-EE191	4	4	3.7	3.3	3.7	3	1.7	1	-	3.7	3	3.3	1	4	2.3	1
6	1st year	Workshop/Manufacturing Practices	ES-ME192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st year	Chemistry-I	BS-CH201	4	2	1.8	1	3.5	3.4	2.8	3	1.3	2.2	1.3	0	2.6	1.3	1	2
8	1st year	Mathematics –IIB	BS-M202	4	4	4	2.5	2.5	-	-	-	-	-	-	-	2.8	2.8	1	-
9	1st year	Programming for Problem Solving	ES-CS201	4	2.8	2.8	1.5	2.5	3	2.6	2.8	2.4	3	2.6	2	3	2.5	2.6	2.8
10	1st year	English	HM-HU201	3	-	-	-	-	-	0.75	-	1.5	1.5	3	1.5	0.75		2.25	
11	1st year	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st year	Programming for Problem Solving	ES-CS291	4	2.6	2.6	3	2.2	3	2.4	2.8	2.2	3	2.4	2	3	2.4	2.4	2.8
13	1st year	Engineering Graphics & Design	ES-ME291	4	1.8	1	1.2	1	1.8	1.8	1.4	1	1	2	1	1	3	3.6	2.4
14	1st year	Language Laboratory	HM-HU291	4	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd year	Biology for Engineers	CE(BS)301	4	-	1.3	1.4	-	-	1.2	-	-	-	-	-	-	1.7	1.8	-
16	2nd year	Engineering Mechanics	CE(ES)301	4	3	2	1.83	0	0	0	0	0	0	0	0	1	3	0	0
17	2nd year	Energy Science & Engineering	CE(ES)302	4	3	2.33	2.17	1.5	0.83	2.33	2.17	2.5	2	2.33	3	2.33	1	-	-
18	2nd year	Mathematics-III (Transform & Discrete Mathematics)	CE(BS)302	4	4	4	3	-	-	-	-	-	-	-	1	1.7	1.7	1	-
19	2nd year	Humanities-I (Effective Technical Communication)	CE(HS)301	3	-	-	-	-	-	0.75	0	1.5	1.5	3	1.5	0.75	0	2.25	-

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20	2nd year	Introduction to Civil Engineering	CE(HS)302	4	3.17	1	1	2.17	2.33	3	2.67	2.5	2.33	2.33	2.5	2	3	2	2.17
21	2nd year	Basic Electronics	CE(ES)391	4	2.8	-	1.8	1.8	1.8	1.2	1.4	1.8	1	2.2	1.8	2.4	2.8	0.6	1.8
22	2nd year	Computer-aided Civil Engineering Drawing	CE(ES)392	4	2.8	-	1.8	1.8	1.8	1.2	1.4	1.8	1	2.2	1.8	2.4	2.8	0.6	1.8
23	2nd year	Life Science	CE(ES)393	3	2	1.6	2.1	1.1	2.1	2.4	_	_	_	_	_	_	2.6	2.1	_
24	2nd year	Introduction to Fluid Mechanics	CE(ES)401	4	2.83	2.67	2	2.5	0.5	1.5	3.67	1.2	1.8	1.3	0.7	2.5	2.5	0.5	1.83
25	2nd year	Introduction to Solid Mechanics	CE(ES)402	4	2.4	2.4	2.2	2.2	0.6	1.6	3.6	1	1.4	1.2	0.4	2.4	2.4	0.6	1.6
26	2nd year	Soil Mechanics – I	CE(PC)401	3	2.62	1.87	1.63	1.75	1.75	1.63	2.12	1.63	2.12	1.63	1.87	1.5	2	1.5	1.37
27	2nd year	Environmental Engineering -I	CE(PC)402	4	3	2.5	2.5	1.5	0.5	3	2.83	2.5	1.5	2.67	2	1.67	1	-	-
28	2nd year	Surveying & Geomatics	CE(PC)403	4	3	2.67	1.83	2.6	2.17	0	0	0	0	0	0	0	2.33	1.33	0.33
29	2nd year	Concrete Technology	CE(PC)404	4	2.5	1.83	1	0.83	0.33	0.17	0.5	-	1.33	0.67	1.33	1.17	3	0.5	1.33
30	2nd year	Civil Engineering - Societal & Global Impact	CE(HS)401	4	2.3	2	1.8	1.7	1.3	3.3	3.8	2.5	2.2	1.8	2	1.2	2.5	2.2	2.5
31	2nd year	Management I (Organizational Behavior)	CE(MC)401	4	_	_	_	_	_	**3**	**3**	**3.2**	_	**3**	_	**3.6**	_	_	**3.4**
32	2nd year	Fluid Mechanics Laboratory	CE(ES)491	4	2	1	1	2.83	1	-	-	-	2	1	1.83	1	2	2.83	1
33	2nd year	Solid Mechanics Laboratory	CE(ES)492	4	2	1.17	-	3	2	-	-	-	2	2.33	-	2	1.83	3	1
34	2nd year	Engineering Geology Laboratory	CE(ES)493	4	2.5	2	-	-	-	-	-	-	1.66	0.33	-	1.66	0.83	-	0.33
35	2nd year	Surveying & Geomatics	CE(PC)493	4	2.83	2.5	2.83	0.33	0.17	1.67	1.5	1.33	2.33	2.67	2.5	1.5	2.5	2.17	2.17
36	2nd year	Concrete Technology Laboratory	CE(PC)494	4	2.43	1.57	1.43	1.86	1.71	0.43	0.29	0.71	0.86	0.86	0.86	1	2.43	1.71	2.29
37	3rd year	Design of RC Structures	CE(PC)501	3	2	1.88	2.38	1	1	1	1	0.38	1.63	0.62	1.63	1.63	2.12	1	1.63
38	3rd year	Engineering Hydrology	CE(PC)502	4	2.5	2.25	2.5	1.75	0.75	1.75	3.5	0.8	1.3	1.5	1.8	2.3	2.25	0.75	1.25

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
39	3rd year	Structural Analysis – I	CE(PC)503	4	2.4	2.4	2.2	2.2	0.6	1.6	3.6	1	1.4	1.2	0.4	2.4	2.4	0.6	1.6
40	3rd year	Soil Mechanics – II	CE(PC)504	4	3	2.8	2	2.25	0.6	0	0	0	0	0	0	0	3	0.2	0
41	3rd year	Environmental Engineering – II	CE(PC)505	4	2.67	2.5	2.5	2.17	1.17	2.17	3.67	0.7	1	1.5	2	2.5	2.4	1	1
42	3rd year	Transportation Engineering	CE(PC)506	4	3.25	3.5	3.75	3	2.75	2.5	3.75	3	2.5	2	3	3.25	4	3	2.5
43	3rd year	Constitution of India/ Essence of Indian Knowledge Tradition	CE(MC)501	4	2.33	2.16	2.12	2.33	1.83	2.21	1.9	2.21	2.23	3.2	2.3	3.1	3	2.8	2.9
44	3rd year	RC Design Sessional	CE(PC)591	4	3	3	3	3	0.5	0.33	1	0.5	2.5	0.17	1.67	2.67	3	0.5	2.5
45	3rd year	Soil Mechanics Laboratory	CE(PC)594	4	2.33	2.17	-	2.33	1.83	-	1	-	3	-	-	1.83	3	2	2
46	3rd year	Environmental Engineering Laboratory	CE(PC)595	4	2	1.33	2.33	1.16	0.66	0.83	1.83		2.83		1	1.83	2.33	0.66	2.83
47	3rd year	Transportation Engineering Laboratory	CE(PC)596	4	2.17	2	1.5	-	-	0.33	-	-	-	0.33	1.5	2	2.67	-	-
48	3rd year	Computer Application in CE	CE(PC)597	4	3	2.86	2.71	2.72	3	2	-	-	2	-	-	3	3	3	2
49	3rd year	Construction Engineering & Management	CE(PC)601	4	0.71	-	-	-	0.29	2	0.71	-	3	2.43	3	-	-	-	1
50	3rd year	Engineering Economics, Estimation & Costing	CE(PC)602	4	1.5	0	0	0	0	2.83	0	1.83	0	0	2.67	1.17	1	0	0
51	3rd year	Water Resources Engineering	CE(PC)603	4	3	2.4	1.6	1.33	0.4	0	0	0	0	0	0	0	2.4	0	0
52	3rd year	Design of Steel Structures	CE(PC)604	4	2.1	3.4	3.7	3.6	2.6	2	1.6	1.4	1.9	1.1	1.3	2.7	2.9	2.7	2.6
53	3rd year	Foundation Engineering	CE(PE)601B	4	3.67	2	2.5	1.17	1.5	-	0.33	-	2.33	1.5	2	2	3.67	1.67	2.33
54	3rd year	Structural Analysis-II	CE(PE)602B	4	2.2	3.2	3.5	3.7	2.8	2.7	2.2	1.3	1.5	1.5	1	2.8	2.7	3	2.7
55	3rd year	Soft Skills and Interpersonal Communication – I	CE(OE)601A	3	-	-	-	-	-	0.75	0	1.5	1.5	3	1.5	0.75	0	2.25	-

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56	3rd year	Water Resource Engineering Laboratory	CE(PC)693	4	0.6	0.8	2	1	3	-	3	1.8	1.8		0.4	1	1.4	0.2	2.6
57	3rd year	Steel Structure Design Sessional	CE(PC)694	3	2.25	1.61	1.72	1.5	1.61	0.75	1.18	0.22	0.22	0.53	0.65	1.5	1.93	1.61	1.82
58	3rd year	Quantity Survey Estimation and Valuation Sessional	CE(PC)695	3	1.95	1.5	1.5	-	-	1.5	-	1.5	-	1.5	1.68	1.35	1.8	1.5	1.5
59	4th year	Environmental Engineering	CE701	4	3	2.5	2.5	1.5	0.5	3	2.83	2.5	1.5	2.67	2	1.67	1	-	-
60	4th year	Water Resource Engineering	CE702	4	3	2.17	2	1.4	0	0	0	0	0	0	0	0	2.5	0	0
61	4th year	Advanced Highway and Transportation Engineering	CE703C	4	3.6	3.6	3.8	2.8	3.4	2.4	2.4	2.4	3.6	2.2	3.4	2.8	3.4	3.6	2.8
62	4th year	Hydraulic Structures	CE704B	4	2.4	2.4	2.4	2.8	1.8	2	2	1	2.2	1.4	1.6	3	3.4	3	2.2
63	4th year	Electrical and Electronic Measurement	CE705B	4	4	3.5	3	2.66	2.16	2	2	1	4	3.83	1.66	4	-	-	-
64	4th year	Group Discussion	HU781	4	-	-	-	-	-	-	-	-	2.83	2.83	-	1.67	-	-	3
65	4th year	Environmental Engineering Lab	CE791.	4	2	1.33	2.33	1.16	0.66	0.83	1.83		2.83		1	1.83	2.33	0.66	2.83
66	4th year	Civil Engineering Practice Sessional	CE792	4	3	2.17	1.75	1	0	0	0	0	0	0	0	0	3	0.33	0
67	4th year	Electrical and Electronic Measurement Laboratory	CE793B	2	2	1.5	1	2	1.4	2	1.5	2	1.3	1.4	1	1.3	1.5	1.5	2
68	4th year	Industrial Training	CE782	4	1.5	1.5	1.5	1	1.67	1.5	1.67	2.17	2.67	2.83	2	0.83	1.5	1.67	2.67
69	4th year	Project Part I	CE783	4	0.83	0.83	2.67	2.5	2	1.83	0.67	0.5	2.67	0.67	2.16	2	0.83	2	2.67
70	4th year	Organisational Behaviour/ Project Management	HU801A HU801B	4	-	-	-	-	-	1.2	1.1	1.6	-	1.8	-	1.5	-	-	1.5
71	4th year	Environmental Pollution and Control	CE801A	4	3	2.5	2.5	2	1	2.83	2.83	2.5	2.17	2.67	1.83	1.67	1	-	-
72	4th year	Pavement Design	CE802D	4	3.8	3.5	3	2.5	3.7	3	3.3	2.8	2.8	2.3	2.8	3.3	3.5	2.8	1.5
73	4th year	Structural Engineering Design Practice	CE891	4	3	2.5	2.5	3	1.17	2.83	2.83	2.5	2.33	2.67	2.33	2.67	1	-	-

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74	4th year	Project Part II	CE881	4	2.5	2.5	2.67	2.5	2	1.83	0.67	0.5	2.67	0.67	2.17	2	2.5	2	2.67
75	4th year	Grand – Viva	CE882	4.00	2.60	1.33	2.00	1.00	-	1.00	1.00	1.00	1.00	2.80	1.00	1.80	2.60	1.00	1.80
Average =				3.79	2.51	2.16	2.05	1.90	1.47	1.57	1.66	1.38	1.79	1.61	1.46	1.79	2.24	1.55	1.76

Principal in Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly

Civil Engineering Department
H.E.T.C.
Hooghly

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1	1st year	Physics-I	BS-PH101	4	1.7	2.5	1	1	1	0	0	0	0	0	0	1	2	1.5	0
2	1st year	Mathematics –IB	BS-M102	3	3	3	1.8	1.5	-	-	-	-	-	-	-	2.3	1.7	0.8	-
3	1st year	Basic Electrical Engineering	ES-EE101	4	4	3.3	1.5	1	1.3	-	1	-	-	1	-	1.5	4	1.5	
4	1st year	Physics-I Laboratory	BS-PH191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	0.8	1.5
5	1st year	Basic Electrical Engineering Laboratory	ES-EE191	4	4	3.7	3.3	3.7	3	1.7	1	-	3.7	3	3.3	1	4	2.3	1
6	1st year	Workshop/Manufacturing Practices	ES-ME192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st year	Chemistry-I	BS-CH201	3	1.5	1.4	0.8	2.6	2.6	2.1	2.3	0.9	1.7	1	0	2	1	0.8	1.5
8	1st year	Mathematics –IIB	BS-M202	3	3	3	1.9	1.9	-	-	-	-	-	-	-	2.1	2.1	0.8	-
9	1st year	Programming for Problem Solving	ES-CS201	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	0.8	1.5
10	1st year	English	HM-HU201	3	-	-	-	-	-	0.75	-	1.5	1.5	3	1.5	0.75	-	2.25	-
11	1st year	Chemistry-I Laboratory	BS-CH291	3	1.5	0.8	0.8	1.5	1.5	1.3	1.5	1	1.1	0.8	0	1.5	0.8	0.8	0.8
12	1st year	Programming for Problem Solving	ES-CS291	4	3	2	1.83	0	0	0	0	0	0	0	0	1	3	0	0
13	1st year	Engineering Graphics & Design	ES-ME291	3	1.35	0.75	0.9	0.75	1.35	1.35	1.05	0.75	0.75	1.5	0.75	0.75	2.25	2.7	1.8
14	1st year	Language Laboratory	HM-HU291	4	-	-	-	-	1	-	2	2	4	2	1	-	3	-	-
15	2nd year	Biology for Engineers	CE(BS)301	4	-	1.3	1.4	-	-	1.2	-	-	-	-	-	-	1.7	1.8	-
16	2nd year	Engineering Mechanics	CE(ES)301	4	3	2	1.83	0	0	0	0	0	0	0	0	1	3	0	0
17	2nd year	Energy Science & Engineering	CE(ES)302	4	3	2.33	2.17	1.5	0.83	2.33	2.17	2.5	2	2.33	3	2.33	1	-	-
18	2nd year	Mathematics-III (Transform & Discrete	CE(BS)302	4	4	4	3	-	-	-	-	-	-	-	1	1.7	1.7	1	-
19	2nd year	Humanities-I (Effective Technical Communication)	CE(HS)301	4	-	-	-	-	-	1	-	2	2	4	2	1	-	3	-
20	2nd year	Introduction to Civil Engineering	CE(HS)302	4	3.17	1	1	2.17	2.33	3	2.67	2.5	2.33	2.33	2.5	2	3	2	2.17
21	2nd year	Basic Electronics	CE(ES)391	4	2.83	2.67	2	2.5	0.5	1.5	3.67	1.2	1.8	1.3	0.7	2.5	2.5	0.5	1.8
22	2nd year	Computer-aided Civil Engineering Drawing	CE(ES)392	4	2.8	-	1.8	1.8	1.8	1.2	1.4	1.8	1	2.2	1.8	2.4	2.8	0.6	1.8
23	2nd year	Life Science	CE(ES)393	4	2.6	2.2	2.8	1.5	2.8	3.2	-	-	-	-	-	-	3.4	2.8	-

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24	2nd year	Introduction to Fluid Mechanics	CE(ES)401	4	2.83	2.67	2	2.5	0.5	1.5	3.67	1.2	1.8	1.3	0.7	2.5	2.5	0.5	1.83
25	2nd year	Introduction to Solid Mechanics	CE(ES)402	4	2.4	2.4	2.2	2.2	0.6	1.6	3.6	1	1.4	1.2	0.4	2.4	2.4	0.6	1.6
26	2nd year	Soil Mechanics – I	CE(PC)401	4	3.5	2.5	2.17	2.33	2.33	2.17	2.83	2.17	2.5	2	1.83	2	2.67	2	1.83
27	2nd year	Environmental Engineering - I	CE(PC)402	4	3	2.5	2.5	1.5	0.5	3	2.83	2.5	1.5	2.67	2	1.67	1	-	-
28	2nd year	Surveying & Geomatics	CE(PC)403	4	3	2.67	1.83	2.6	2.17	0	0	0	0	0	0	0	2.33	1.33	0.33
29	2nd year	Concrete Technology	CE(PC)404	4	2.5	1.83	1	0.83	0.33	0.17	0.5	-	1.33	0.67	1.33	1.17	3	0.5	1.33
30	2nd year	Civil Engineering - Societal & Global Impact	CE(HS)401	4	2.3	2	1.8	1.7	1.3	3.3	3.8	2.5	2.2	1.8	2	1.2	2.5	2.2	2.5
31	2nd year	Management I (Organizational Behavior)	CE(MC)401	4	-	-	-	-	-	3	3	3.2	_	3	_	3.6	_	_	3.4
32	2nd year	Fluid Mechanics Laboratory	CE(ES)491	3	1.5	0.75	0.75	2.12	0.75	-	-	-	1.5	0.75	1.37	0.75	1.5	2.12	0.75
33	2nd year	Solid Mechanics Laboratory	CE(ES)492	3	1.5	0.88	-	2.25	1.5	-	-	-	1.5	1.75	-	1.5	1.37	2.25	0.75
34	2nd year	Engineering Geology Laboratory	CE(ES)493	3	1.875	1.5	-	-	-	-	-	-	1.25	0.25	-	1.25	0.62	-	0.25
35	2nd year	Surveying & Geomatics	CE(PC)493	4	2.83	2.5	2.83	0.33	0.17	1.67	1.5	1.33	2.33	2.67	2.5	1.5	2.5	2.17	2.17
36	2nd year	Concrete Technology Laboratory	CE(PC)494	3	1.82	1.18	1.07	1.4	1.28	0.32	0.22	0.53	0.65	0.65	0.65	0.75	1.82	1.28	1.72
37	3rd year	Design of RC Structures	CE(PC)501	4	2.67	2.5	3.17	1.33	1.33	1.33	1.33	0.5	2.17	0.83	2.17	2.17	2.83	1.33	2.17
38	3rd year	Engineering Hydrology	CE(PC)502	4	2.5	2.25	2.5	1.75	0.75	1.75	3.5	0.8	1.3	1.5	1.8	2.3	2.25	0.75	1.25
39	3rd year	Structural Analysis – I	CE(PC)503	4	2.4	2.4	2.2	2.2	0.6	1.6	3.6	1	1.4	1.2	0.4	2.4	2.4	0.6	1.6
40	3rd year	Soil Mechanics – II	CE(PC)504	4	3	2.8	2	2.25	0.6	0	0	0	0	0	0	0	3	0.2	0
41	3rd year	Environmental Engineering – II	CE(PC)505	4	2.67	2.5	2.5	2.17	1.17	2.17	3.67	0.7	1	1.5	2	2.5	2.4	1	1
42	3rd year	Transportation Engineering	CE(PC)506	4	3.25	3.5	3.75	3	2.75	2.5	3.75	3	2.5	2	3	3.25	4	3	2.5
43	3rd year	Constitution of India/ Essence of Indian	CE(MC)501	4	3	2.8	2	2.25	0.6	0	0	0	0	0	0	0	3	0.2	0
44	3rd year	RC Design Sessional	CE(PC)591	3	2.25	2.25	2.25	2.25	0.38	0.25	0.75	0.38	1.88	0.13	1.25	2	2.25	0.38	1.88
45	3rd year	Soil Mechanics Laboratory	CE(PC)594	4	2.33	2.17	-	2.33	1.83	-	1	-	3	-	-	1.83	3	2	2

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46	3rd year	Environmental Engineering Laboratory	CE(PC)595	4	2	1.33	2.33	1.16	0.66	0.83	1.83		2.83		1	1.83	2.33	0.66	2.83
47	3rd year	Transportation Engineering Laboratory	CE(PC)596	4	2.17	2	1.5	-	-	0.33	-	-	-	0.33	1.5	2	2.67	-	-
48	3rd year	Computer Application in CE	CE(PC)597	4	3	2.86	2.71	2.72	3	2	-	-	2	-	-	3	3	3	2
49	3rd year	Construction Engineering & Management	CE(PC)601	4	0.71	_	_	_	0.29	2	0.71	_	3	2.43	3	_	_	_	1
50	3rd year	Engineering Economics, Estimation & Costing	CE(PC)602	4	1.5	0	0	0	0	2.83	0	1.83	0	0	2.67	1.17	1	0	0
51	3rd year	Water Resources Engineering	CE(PC)603	4	3	2.4	1.6	1.33	0.4	0	0	0	0	0	0	0	2.4	0	0
52	3rd year	Design of Steel Structures	CE(PC)604	4	2.1	3.4	3.7	3.6	2.6	2	1.6	1.4	1.9	1.1	1.3	2.7	2.9	2.7	2.6
53	3rd year	Foundation Engineering	CE(PE)601B	4	3.67	2	2.5	1.17	1.5	-	0.33	-	2.33	1.5	2	2	3.67	1.67	2.33
54	3rd year	Structural Analysis-II	CE(PE)602B	4	2.2	3.2	3.5	3.7	2.8	2.7	2.2	1.3	1.5	1.5	1	2.8	2.7	3	2.7
55	3rd year	Soft Skills and Interpersonal Communication – I	CE(OE)601A	4	-	-	-	-	-	1		2	2	4	2	1		3	
56	3rd year	Water Resource Engineering Laboratory	CE(PC)693	3	0.45	0.6	1.5	0.75	2.25	-	2.25	1.35	1.35	-	0.3	0.75	1.05	0.15	1.95
57	3rd year	Steel Structure Design Sessional	CE(PC)694	3	2.25	1.61	1.72	1.5	1.61	0.75	1.18	0.22	0.22	0.53	0.65	1.5	1.93	1.61	1.82
58	3rd year	Quantity Survey Estimation and Valuation	CE(PC)695	3	1.95	1.5	1.5	-	-	1.5	-	1.5	-	1.5	1.68	1.35	1.8	1.5	1.5
59	4th year	Cyber Law & Ethics	CE(OE)701C	4	0.71	_	_	_	0.29	2	0.71	_	3	2.43	3	_	_	_	1
60	4th year	Hydraulic Structure	CE(PE)701C	4	2.4	2.4	2.4	2.8	1.8	2	2	1	2.2	1.4	1.6	3	3.4	3	2.2
61	4th year	Prestressed Concrete	CE(PE)702A	4	2.83	2.83	1.83	_	_	1	_	_	_	_	_	2	2	_	_
62	4th year	Air and Noise Pollution and Control	CE(PE)703A	4	3	2.5	2.5	2	1	2.83	2.83	2.5	2.17	2.67	1.83	1.67	1	-	-
63	4th year	704A: Structural Dynamics	CE(PE)704	4	3.25	2.5	2	2	2	2.25	1.75	1.75	3	1.5	2	2	3	1.75	2
65	4th year	Railway and Airport Engineering	CE(PE)705A	3	2.6	2.4	2.3	1.7	2	1.4	1.8	1.9	2	1.7	2	2.3	2.6	1.8	1.9
66	4th year	Industrial Internship (after sixth semester)	CE(IN)791	4	1.5	1.5	1.5	1	1.67	1.5	1.67	2.17	2.67	2.83	2	0.83	1.5	1.67	2.67
67	4th year	Project-1 (Project work)	CE(PROJ)792	3	0.62	0.62	2	1.88	1.5	1.37	0.5	0.38	2	0.5	1.62	1.5	0.62	1.5	2
68	4th year	Professional Practice, law & Ethics	CE(HS)801	4	1.2	1.5	0.5	0	0	0.75	0.2	1	0.4	0	0.4	0	0.2	0	1.6

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
69	4th year	Pavement Materials and Design	CE(PE)801D	4	3	1.8	1.8	3	2.8	2.5	2.8	2	2	1.8	2.8	3.5	3.5	2.5	1
70	4th year	Human Resource Development and Organizational Behavior	CE(OE)801A	4	0.71	–	–	–	0.29	2	0.71	–	3	2.43	3	–	–	–	1
71	4th year	Environmental Impact Assessment and Life cycle Analysis	CE(OE)802A	4	3	2.67	2.33	2	1	2	2.33	2.67	2	2	2	2	1	-	-
72	4th year	Project-2	CE(PROJ)8 81	3	1.88	1.88	2	1.88	1.5	1.37	0.5	0.38	2	0.5	1.63	1.5	1.88	1.5	2
73	4th year	Comprehensive Viva Voce	CE(CV)882	3	1.95	1	1.5	0.75	-	0.75	0.75	0.75	0.75	2.1	0.75	1.35	1.95	0.75	1.35
Average =				3.7	2.4	2.1	1.9	1.7	1.3	1.4	1.6	1.2	1.6	1.4	1.4	1.6	2.3	1.4	1.5

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Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly.

Civil Engineering Department
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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st year	Physics-I	BS-PH101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1st year	Mathematics –IB	BS-M102	1	1	1	0.6	0.5	-	-	-	-	-	-	-	0.8	0.6	0.3	-
3	1st year	Basic Electrical Engineering	ES-EE101	4	4	3.3	1.5	1	1.3	-	1	-	-	1	-	1.5	4	1.5	-
4	1st year	Physics-I Laboratory	BS-PH191	4	1.7	1.3	0	1.5	1.5	0	0	0	1.5	1	1	1	2	1	2
5	1st year	Basic Electrical Engineering Laboratory	ES-EE191	4	4	3.7	3.3	3.7	3	1.7	1	-	3.7	3	3.3	1	4	2.3	1
6	1st year	Workshop/Manufacturing Practices	ES-ME192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st year	Chemistry-I	BS-CH201	1	0.5	0.5	0.3	0.9	0.9	0.7	0.8	0.3	0.6	0.3	0	0.7	0.3	0.3	0.5
8	1st year	Mathematics –IIB	BS-M202	1	1	1	0.6	0.6	0	0	0	0	0	0	0	0.7	0.7	0.3	0
9	1st year	Programming for Problem Solving	ES-CS201	4	2.8	2.8	1.5	2.5	3	2.6	2.8	2.4	3	2.6	2	3	2.5	2.6	2.8
10	1st year	English	HM-HU201	2	-	-	-	-	-	0.25	0	0.5	0.5	1	0.5	0.25	0	0.75	-
11	1st year	Chemistry-I Laboratory	BS-CH291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st year	Programming for Problem Solving	ES-CS291	4	2.6	2.6	3	2.2	3	2.4	2.8	2.2	3	2.4	2	3	2.4	2.4	2.8
13	1st year	Engineering Graphics & Design	ES-ME291	4	1.8	1	1.2	1	1.8	1.8	1.4	1	1	2	1	1	3	3.6	2.4
14	1st year	Language Laboratory	HM-HU291	4						1		2	2	4	2	1		3	
15	2nd year	Biology for Engineers	CE(BS)301	4	_	1.3	1.4	_	_	0.6	_	_	_	_	_	_	1.7	1.8	_
16	2nd year	Engineering Mechanics	CE(ES)301	1	0.75	0.5	0.46	0	0	0	0	0	0	0	0	0.25	0.75	0	0
17	2nd year	Energy Science & Engineering	CE(ES)302	3	3	2.33	2.17	1.5	0.83	2.33	2.17	2.5	2	2.33	3	2.33	1	-	-
18	2nd year	Mathematics-III (Transform & Discrete Mathematics)	CE(BS)302	1	1	1	0.8	-	-	-	-	-	-	-	0.3	0.4	0.4	0.3	-

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
19	2nd year	Humanities-I (Effective Technical Communication)	CE(HS)301	2	-	-	-	-	-	0.5	-	1	1	2	1	0.5	-	1.5	-
20	2nd year	Introduction to Civil Engineering	CE(HS)302	3	2.38	0.75	0.75	1.63	1.75	2.25	2	1.87	1.75	1.75	1.87	1.5	2.25	1.5	1.63
21	2nd year	Basic Electronics	CE(ES)391																
22	2nd year	Computer-aided Civil Engineering Drawing	CE(ES)392	3	2.1	-	1.8	1.35	1.35	0.9	1.05	1.35	0.75	1.65	1.35	1.8	2.1	0.45	1.35
23	2nd year	Life Science	CE(ES)393	4	2.6	2.2	2.8	1.5	2.8	3.2	_	_	_	_	_	_	3.4	2.8	_
24	2nd year	Introduction to Fluid Mechanics	CE(ES)401	1	0.75	0.67	0.67	0.63	0.33	0.42	1.83	0.1	0.3	0.4	0.5	0.7	0.6	0.25	0.25
25	2nd year	Introduction to Solid Mechanics	CE(ES)402	1	0.13	0.83	0.96	0.79	0.13	0.13	0.25	0.08	0.08	0.33	0.96	0.79	1	0.13	0.33
26	2nd year	Soil Mechanics – I	CE(PC)401	2	1.75	1.25	1.09	1.16	1.16	1.08	1.41	1.08	1.25	1	0.915	1	1.38	1	0.915
27	2nd year	Environmental Engineering -I	CE(PC)402	2	3	2.7	2.3	2	1	2	2.3	2.7	2	2	2	2	1	-	-
28	2nd year	Surveying & Geomatics	CE(PC)403	2	1.08	1.17	1	1	1	0.5	0.92	0	1.17	0.5	1.08	0.92	1.5	1.17	1.08
29	2nd year	Concrete Technology	CE(PC)404	4	2.83	2.5	2.83	0.33	0.17	1.67	1.5	1.33	2.33	2.67	2.5	1.5	2.5	2.17	2.17
30	2nd year	Civil Engineering - Societal & Global Impact	CE(HS)401	3	0.5	1	1.63	0.25	1.5	2.25	2.25	0.5	2.13	2.25	1.88	0.75	2.13	1.63	1.63
31	2nd year	Management I (Organizational Behavior)	CE(MC)401	4	-	-	-	-	-	3	3	3.2	-	3	-	3.6	-	-	3.4
32	2nd year	Fluid Mechanics Laboratory	CE(ES)491	4	1.83	0.17	1	2.83	1	-	-	0.17	-	-	1.83	0.83	1.83	2.83	0.17
33	2nd year	Solid Mechanics Laboratory	CE(ES)492	4	2	-	-	3	2	-	-	-	1	-	2	-	2	3	-
34	2nd year	Engineering Geology Laboratory	CE(ES)493	4	2.8	1.2	0.8	0	2	2.4	2	0	0	-	0	0	0	1.6	0.4
35	2nd year	Surveying & Geomatics	CE(PC)493	4	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
36	2nd year	Concrete Technology Laboratory	CE(PC)494	4	2.43	1.57	1.43	1.86	1.71	0.43	0.29	0.71	0.86	0.86	0.86	1	2.43	1.71	2.29

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
37	3rd year	Design of RC Structures	CE(PC)501	2	1.34	1.25	1.58	0.67	0.67	0.67	0.67	0.25	1.08	0.42	1.08	1.08	1.42	0.67	1.08
38	3rd year	Engineering Hydrology	CE(PC)502	2	1.25	1.13	1.25	0.88	0.38	0.88	1.75	0.4	0.6	0.8	0.9	1.1	1.13	0.38	0.63
39	3rd year	Structural Analysis – I	CE(PC)503	1	0.6	0.6	0.55	0.55	0.15	0.4	0.9	0.25	0.35	0.3	0.1	0.6	0.6	0.15	0.4
40	3rd year	Soil Mechanics – II	CE(PC)504	1	0.75	0.7	0.5	0.56	0.15	0	0	0	0	0	0	0	0.75	0.05	0
41	3rd year	Environmental Engineering – II	CE(PC)505	2	1.33	1.25	1.25	1.08	0.58	1.08	1.83	0.3	0.5	0.8	1	1.3	1.2	0.5	0.5
42	3rd year	Transportation Engineering	CE(PC)506	3	2.4	2.6	2.8	2.3	2.1	1.9	2.8	2.3	1.9	1.5	2.3	2.4	3	2.3	1.9
43	3rd year	Constitution of India/ Essence of Indian Knowledge Tradition	CE(MC)501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	3rd year	RC Design Sessional	CE(PC)591	3	2.25	2.25	2.25	2.25	0.38	0.25	0.75	0.38	1.88	0.13	1.25	2	2.25	0.38	1.88
45	3rd year	Soil Mechanics Laboratory	CE(PC)594	4	2.33	2.16	-	2.33	1.83	-	1	-	3	-	-	1.83	3	2	2
46	3rd year	Environmental Engineering Laboratory	CE(PC)595	3	1.5	1	1.75	0.87	0.5	0.62	1.37	-	2.1	-	0.75	1.37	1.75	0.5	2.12
47	3rd year	Transportation Engineering Laboratory	CE(PC)596	3	1.63	1.5	1.13	-	-	0.25	-	-	-	0.25	1.13	1.5	2	-	-
48	3rd year	Computer Application in CE	CE(PC)597	3	2.25	2.15	2	2	2.25	1.5	-	-	1.5	-	-	2.25	2.25	2.25	1.5
49	3rd year	Construction Engineering & Management	CE(PC)601	2	0.36	-	-	-	0.14	1	0.36	_	1.5	1.21	1.5	-	-	-	0.5
50	3rd year	Engineering Economics, Estimation & Costing	CE(PC)602	2	0.64	-	-	-	-	1.21	-	0.79	-	-	1.14	0.5	0.43	-	-
51	3rd year	Water Resources Engineering	CE(PC)603	2	1.9	1.3	1.6	0.5	0.3	0.6	1.4	0.6	0.6	0.3	0.3	1.2	1.9	0.3	0.6
52	3rd year	Design of Steel Structures	CE(PC)604	2	0.25	1.67	1.92	1.59	0.25	0.25	0.5	0.17	0.17	0.67	1.92	1.59	2	0.25	0.67

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
53	3rd year	Foundation Engineering	CE(PE)601B	2	1.83	1	1.25	0.58	0.75	-	0.16	-	1.16	0.75	1	1	1.83	0.83	1.16
54	3rd year	Structural Analysis-II	CE(PE)602B	2	3	3	3	3	-	-	-	-	-	-	-	0.83	1.5	1.83	2.67
55	3rd year	Soft Skills and Interpersonal Communication – I	CE(OE)601A	3	-	-	-	-	-	0.8		1.5	1.5	3	1.5	0.75	-	2.25	-
56	3rd year	Water Resource Engineering Laboratory	CE(PC)693	3	2.1	1.35	1.5	0.75	1.2	2.1	1.35	1.65	0.75	0.75	0.75	1.35	0.9	1.5	0.75
57	3rd year	Steel Structure Design Sessional	CE(PC)694	3	2.25	1.61	1.72	1.5	1.61	0.75	1.18	0.22	0.22	0.53	0.65	1.5	1.93	1.61	1.82
58	3rd year	Quantity Survey Estimation and Valuation Sessional	CE(PC)695	3	2	1.5	0.3	-	-	0.6	-	0.3	-	0.3	1.35	1.35	1.8	1.5	1.5
59	4th year	Hydraulic Structure	CE(PE)701C	3	1.8	1.8	1.8	2.1	1.4	1.5	1.5	0.8	1.7	1.1	1.2	2.3	2.6	2.3	1.7
60	4th year	Prestressed Concrete	CE(PE)702A	2	1.42	1.42	0.92	-	-	0.5	-	-	-	-	-	1	1	-	-
61	4th year	Air and Noise Pollution and Control	CE(PE)703A	3	3	2.5	2.5	2	1	2.83	2.83	2.5	2.17	2.67	1.83	1.67	1	-	-
62	4th year	704B: Advanced Structural Analysis	CE(PE)704	2	1.2	1.2	1.1	1.1	0.3	0.8	1.8	0.5	0.7	0.6	0.2	1.2	1.2	0.3	0.8
63	4th year	Railway and Airport Engineering	CE(PE)705A	3	2.6	2.4	2.3	1.7	2	1.4	1.8	1.9	2	1.7	2	2.3	2.6	1.8	1.9
64	4th year	Industrial Internship (after sixth semester)	CE(IN)791	4	1.5	1.5	1.5	1	1.67	1.5	1.67	2.17	2.67	2.83	2	0.83	1.5	1.67	2.67
65	4th year	Project-1 (Project work)	CE(PROJ)792	3	0.62	0.62	2	1.88	1.5	1.37	0.5	0.38	2	0.5	1.62	1.5	0.62	1.5	2
66	4th year	Professional Practice, law & Ethics	CE(HS)801C	3	1	0.33	0	0	0.17	2.17	0	2.5	0	0.67	0.83	0.83	1.17	1.33	1.33

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
67	4th year	Pavement Materials and Design	CE(PE)801D	4	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
68	4th year	Deep Foundation	CE(OE)801C	3	2.25	2.25	2.25	2.13	-	0.75	0.38	-	-	-	-	-	1.5	1.88	1.88
69	4th year	Environmental Impact Assessment and Life cycle Analysis	CE(OE)802A	3	3	2.7	2.3	2	1	2	2.3	2.7	2	2	2	2	1	-	-
70	4th year	Project-2	CE(PROJ)8 81	4	2.51	2.51	2.67	2.51	2	1.83	0.67	0.51	2.67	0.667	2.173	2	2.5067	2	2.6667
71	4th year	Comprehensive Viva Voce	CE(CV)882	3	2.6	1.33	2	1	0	1	1	1	1	2.8	1	1.8	2.6	1	1.8
Average =				**2.8**	**1.8**	**1.6**	**1.5**	**1.4**	**1.2**	**1.2**	**1.3**	**1.1**	**1.4**	**1.3**	**1.3**	**1.3**	**1.7**	**1.4**	**1.5**

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Civil Engineering Department
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Electrical Engineering Department

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Chemistry-I	BS-CH101	1.0	0.5	0.4	0.3	1.0	0.3	0.7	0.9	0.3	0.6	0.3	0.0	0.7	0.4	0.3	0.5
2	1st	Mathematics -IB	BS-M102	1.0	0.7	0.6	0.7	0.6	-	-	-	-	-	-	0.4	0.8	0.5	0.4	-
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.5	0.5	_	0.3	_	_	0.5	_	0.4	1.0	0.4	_
4	1st	Chemistry-I Laboratory	BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	_	3.7	3.0	3.3	3.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	3.0	2.3	1.8	2.7	1.7	2.1	1.5	1.5	1.4	1.8	1.7	0.8	1.5	1.8	2.0	1.7
7	1st	Physics-I	BS-PH201	0.0	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
8	1st	Mathematics -IIB	BS-M205	1.0	0.7	0.6	0.8	0.5	-	-	-	-	-	-	0.3	0.8	0.4	0.3	-
9	1st	Programming for Problem Solving	ES-CS201	1.0	1.0	0.9	0.9	0.9	0.6	-	-	-	0.3	0.3	0.5	-	0.8	0.5	-
10	1st	English	HM-HU201	3.0						0.8	0.0	1.5	1.5	3.0	1.5	0.8	0.0	0.8	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.9	1.0	_	1.1	1.1	_	_	_	1.1	0.8	0.8	0.8	2.3	1.8	1.5
12	1st	Programming for Problem Solving	ES-CS291	3.0	2.8	2.8	3.0	2.8	2.3	1.5	-	0.8	1.5	1.5	-	-	2.8	1.5	-
13	1st	Workshop/Manufacturing Practices	ES-ME292	3.0	2.0	2.0	1.5	1.1	0.8	0.9	1.2	0.8	0.0	1.2	0.8	0.8	3.0	2.6	3.6
14	1st	Language Laboratory	HM-HU291	3.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Numerical Methods	M (CS) 301	2.0	1.4	1.1	1.5	0.7	-	-	-	-	-	-	0.5	1.5	1.0	0.5	-
16	2nd	Mathematics-III	M302	2.0	1.4	1.1	1.5	0.7	-	-	-	-	-	-	0.5	1.5	1.0	0.5	-
17	2nd	Analog Electronic circuits	EC(EE)301	1.0	0.5	0.5	0.5	0.5	0.5	_	_	_	_	0.8	_	0.9	_	_	0.5

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18	2nd	Digital Electronic circuit	ECEE(3)02	1.0	1.0	0.5	0.5	0.3	_	0.3	0.5	0.5	_	0.8	_	_	1.0	_	_
19	2nd	Electric Circuit theory	EE-301	2.0	1.7	1.7	0.7	0.5	0.8	_	_	_	_	1.0	1.0	0.7	1.8	1.0	_
20	2nd	Field theory	EE-302	2.0	0.8	0.3	0.5	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.1	0.1
21	2nd	Analog & Digital Electronic circuit Laboratory	ECLE(3)91	4.0	2.6	1.6	1.4	1.0	_	_	_	_	1.0	2.0	1.0	_	2.8	1.0	1.0
22	2nd	Numerical Methods Laboratory	M (CS)391	3.0	2.3	2.4	2.0	1.7	2.3	2.0	1.7	1.7	0.1	1.8	1.4	2.4	1.5	1.8	2.1
23	2nd	Electric Circuit Theory Laboratory	EE-391	4.0	0.1	0.1	3.0	3.0	0.6	_	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
24	2nd	TECHNICAL REPORT WRITING & LANGUAGE LABORATORY PRACTICE	HU-381	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
25	2nd	Values and Ethics in Profession	HU-401	3.0	_	_	_	_	_	2.2	2.2	2.4	_	2.3	_	2.7	_	_	
26	2nd	Physics-II	PH(EE)-401	0.0	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
27	2nd	Thermal Power Engineering	ME(EE)411	2.0	1.2	1.1	0.9	0.7	0.5	0.6	0.5	0.9	0.5	0.6	0.6	0.5	1.8	1.7	1.5
28	2nd	Basic Environmental Engineering & Elementary Biology	CH-401	2.0	1.3	0.8	0.9	1.0	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.6	0.5	0.8
29	2nd	Electric Machine-I	EE-401	2.0	1.8	1.5	1.3	1.5	1.4	1.2	1.5	1.0	1.0	1.5	1.0	1.0	1.5	1.1	1.0
30	2nd	Electrical & Electronic measurement	EE-402	2.0	2.0	1.5	1.0	2.0	1.4	2.0	1.5	2.0	1.3	1.4	1.0	1.3	1.5	1.5	2.0
31	2nd	Physics-II Laboratory	PH(EE)-491	3.0	1.3	1.0	_	1.1	1.1	_	_	_	1.1	0.8	0.8	0.8	2.3	1.8	1.5

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Vivekananda Road, Pursurah, Hooghly

Electrical Engineering Department
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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
32	2nd	Thermal power Engineering Lab	ME(EE)481	3.0	3.0	2.0	1.8	1.8	1.0	1.4	1.0	1.8	1.0	1.2	1.4	1.0	1.0	1.2	1.0
33	2nd	Electric Machine-I Laboratory	EE-491	4.0	4.0	4.0	4.0	4.0	-	3.0	3.3	5.7	4.0	4.0	3.3	4.0	3.0	2.0	-
34	2nd	Electrical & Electronic measurement Laboratory	EE-492	3.0	2.2	2.3	2.0	1.2	1.0	0.8						1.8	0.7		
35	3rd	Economics for Engineers	HU-501	2.0	-	-	-	-	1.3	1.6	1.5		1.6	-	1.9	-	-	1.5	
36	3rd	Electric machine-II	EE-501	2.0	1.6	1.5	1.3	1.5	1.4	1.2	1.5	1.0	1.0	1.5	1.0	1.0	1.5	1.1	1.0
37	3rd	Power system-I	EE-502	2.0	1.8	0.8	0.8	1.0	0.9	0.3	-	-	0.1	-	-	-	1.3	0.1	-
38	3rd	Control system-I	EE-503	2.0	2.0	1.6	1.5	1.8	1.6		-	-	-	-		-	1.4	1.3	
39	3rd	Micro Processor & Micro controller	EE-504C	2.0	1.5	0.9	1.5	1.0	0.5	1.5	1.5	-	0.7	1.0	-	0.5	1.4	0.5	1.5
40	3rd	Electric machine-II Laboratory	EE-591	4.0	4.0	4.0	4.0	4.0	-	3.0	3.0	3.5	4.0	4.0	6.7	4.0	4.0	4.0	4.0
41	3rd	Power system-I Laboratory	EE-592	2.2	1.2	0.8	1.2	0.7	0.4	0.4	0.5	0.5	0.0				1.8	0.0	0.0
42	3rd	Control system-I Laboratory	EE-593	3.0	2.6	2.1	1.5	1.6	1.7	0.8	0.8	0.8	1.3	0.8	0.8	1.3	2.0	0.8	0.8
43	3rd	Micro Processor & Microcontroller laboratory	EE-594C	3.0	2.5	2.3	1.5	0.8	1.5	0.0	0.6	0.5	0.8	1.5	0.8	-	1.8	0.0	0.0
44	3rd	Seminar	EE-581	4.0	3.0	3.0	3.3	1.7	1.7	2.0	1.0	2.0	2.0	3.3	4.0	3.0	3.3	3.0	2.0
45	3rd	Principle of Management	HU-601	4.0	-	-	-	-	-	1.5	1.5	1.6		1.8	-	2.0	-	-	1.5
46	3rd	Control System-II	EE-601	2.0	2.0	1.6	1.1	1.7	1.6	-	-	-					1.4	1.1	-
47	3rd	Power System-II	EE-602	2.0	1.5	1.1	1.1	0.4	1.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	1.4	0.1	0.2
48	3rd	Power Electronics	EE-603	1.0	0.8	0.7	0.6	0.7	0.3	0.3	0.5	0.3	0.3	0.4	0.6	0.9	0.8	0.6	0.3

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Electrical Engineering Department
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49	3rd	Data Base Management System	EE-604D	2.0	0.8	1.3	1.7	0.8	0.8	1.5	0.5	1.0	0.0	0.0	0.8	0.5	1.2	0.7	0.8
50	3rd	Digital Signal Processing	EE-605A	2.0	1.5	0.5	-	-	0.5	-	-	-	0.5	1.5	-	-	1.4	-	-
51	3rd	Control System-II	EE-601	3.0	2.6	1.4	1.5	1.8	0.8	0.8	0.8	0.8	1.8	0.8	0.8	1.2	1.8	0.8	0.8
52	3rd	Power System-II	EE-602	3.0	2.8	-	-	2.3	2.3	0.8	0.8	0.8	2.4	0.8	-	2.4	1.7	0.8	0.8
53	3rd	Power Electronics	EE-603	3.0	1.8	0.8	-	1.4	-	-	-	-	1.1	1.1	0.8	1.5	1.0	0.8	0.8
54	3rd	Data Base Management Sys	EE-604D	4.0	3.0	2.0	3.0	2.0	3.0	1.0	0.0	1.8	2.0	0.0	1.0	2.0	2.0	1.0	1.8
55	4th	Electric Drive	EE-701	2.0	2.0	1.8	1.5	1.1	1.1	0.8	0.0	0.5	1.8	0.8	1.1	1.7	1.7	1.0	2.0
56	4th	Utilization of Electric power	EE-702	2.0	1.6	1.3	1.3	2.5	1.3	1.3	1.5	2.0	1.8	1.8	1.0	1.0	1.4	1.6	1.8
57	4th	Power system-III	EE-703A	2.0	1.9	1.9	1.1	0.8	1.1	0.8	1.8	0.5	1.8	0.5	0.5	1.0	1.8	1.7	1.9
58	4th	Renewable & Non conventional Energy	EE-704D	2.0	2.0	1.5	1.5	1.5	1.5	1.3	1.4	2.0	1.5	1.3	1.5	1.0	1.4	1.5	1.8
59	4th	Computer network	EE-705A	2.0	3.0	3.0	2.8	2.6	2.0	1.3	1.5	2.3	2.3	1.8	2.0	3.0	3.0	2.6	2.8
60	4th	Seminar on industrial training	EE-781	4.0	3.0	4.0	4.0	4.0	4.0	4.0	-	-	4.0	4.0	-	4.0	4.0	4.0	3.0
61	4th	Electric Drive laboratory	EE-791	4.0	4.0	4.0	2.0	3.0	4.0	-	-	2.0	4.0	3.0	-	4.0	4.0	4.0	2.4
62	4th	Computer network Laboratory	EE-792	2.0	3.0	3.0	2.8	2.6	2.0	1.3	1.5	2.3	2.3	1.8	2.0	3.0	2.8	2.0	2.0
63	4th	Electrical system design-I	EE782	4.0	3.5	3.5	3.5	3.5	2.8	4.0	2.0	4.0	4.0	2.4	4.0	2.0	4.0	2.0	4.0
64		Project-I	EE 783	4.0	3.0	4.0	4.0	2.0	2.0	3.0	1.0	2.0	2.0	3.0	4.0	3.0	4.0	3.0	3.0
65	4th	Organizational Behaviour	HU-801A	4.0	-	-	-	-	-	1.2	1.1	1.6		1.8	-	1.5	-	-	1.5
66	4th	Energy management & audit	EE-801C	4.0	3.0	3.0	4.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	4.0	3.0	4.0	3.0	2.8

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67	4th	Sensors & Transducers	EE 802C	3.0	2.0	2.0	2.3	2.1	1.6	2.3	2.1	1.5	1.5	1.6	1.3	2.3	2.3	3.0	2.0
68		Project	EE-881	4.0	4.0	3.0	4.0	3.0	3.0	2.8	3.0	2.0	2.0	3.0	4.0	3.0	4.0	3.0	3.0
69	4th	Electrical system Lab-II	EE-882	4.0	4.0	3.6	4.0	4.0	3.2	2.3	2.0	4.0	4.0	3.6	4.0	2.0	4.0	2.7	4.0
70	4th	Grand Viva	EE-883	4.0	3.0	3.0	3.3	1.7	1.7	2.0	1.0	2.0	2.0	3.3	4.0	3.0	3.3	3.0	2.0
Average				2.6	2.1	1.8	1.9	1.6	1.5	1.4	1.2	1.5	1.5	1.6	1.5	1.6	1.9	1.5	1.5

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Principal In Charge
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Vivekananda Road, Pipulpati, Hooghly

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1	1st	Chemistry I	BS-CH101	1.0	0.5	0.4	0.3	1.0	0.9	0.7	0.9	0.3	0.8	0.3	0.0	0.7	0.4	0.3	0.3
2	1st	Mathematics -III	BS-M102	1.0	0.7	0.6	0.7	0.6	-	-	-	-	-	-	0.4	0.8	0.5	0.4	-
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	-	0.3	-	-	0.5	-	0.4	1.0	0.4	-
4	1st	Chemistry-I Laboratory	BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	1.7	3.3	1.7	3.0	1.7	1.0	-	1.7	3.0	3.3	1.0	4.0	2.5	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	3.0	2.1	1.8	2.7	1.7	2.1	1.5	1.5	1.4	1.8	1.7	0.8	1.5	1.8	2.3	1.7
7	1st	Physics-I	BS-PH201	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	1st	Mathematics –III	BS-M202	4.0	2.8	2.3	3.0	1.3	-	-	-	-	-	-	1.0	3.0	1.8	1.3	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.0	3.0	2.0	1.8	2.8	2.8	3.0	2.8	1.8	3.0	2.5	2.0	3.0	2.2	2.3
10	1st	English	HM-HU201	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	4.0	1.7	1.3	-	1.5	1.5	-	-	-	1.5	1.0	1.0	1.0	3.0	2.3	2.0
12	1st	Programming for Problem Solving	ES-CS291	4.0	2.0	3.0	2.0	1.8	2.8	2.8	3.0	2.8	1.8	3.0	2.5	2.0	3.0	2.0	2.3
13	1st	Workshop/Manufacturing Practices	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.2	1.0	1.0	1.2	1.6	1.0	1.0	4.0	3.4	3.4
14	1st	Language Laboratory	HM-HU291	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Electric Circuit Theory	PC-EE 301	1.0	0.9	0.8	0.3	0.3	0.4	-	-	-	-	0.5	0.5	0.3	0.9	0.5	
16	2nd	Analog Electronics	PC-EE 302	3.0	3.0	2.0	1.8	1.3	2.0	0.5	1.0	-	1.3	-	-	-	2.0	1.3	
17	2nd	Electromagnetic field theory	PC-EE 303	2.0	0.8	0.3	0.5	0.2	0.1	0.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.7	0.1

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18	2nd	Engineering Mechanics	ES-ME 301	3.0	0.7	0.6	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.9	0.6	0.6
19	2nd	Mathematics-III	BS-M 301	3.0	0.7	0.6	0.6	0.3	-	-	-	-	-	-	0.5	0.8	0.4	0.3	-
20	2nd	Biology for Engineers	BS-EE301	2.0	0.9	0.8	0.5	0.8	1.0	0.7	-	-	-	-	-	-	1.1	0.6	-
21	2nd	Indian Constitution	MC-EE 301	2.0	1.0	1.0	0.7	0.8	1.0	0.7		-	0.7	-			1.0	1.0	-
22	2nd	Electric Circuit Theory Laboratory	PC-EE 391	4.0	0.2	0.2	3.0	3.0	0.1	-	0.6	0.2	0.2	0.1	0.2	0.2	0.2	0.6	0.2
23	2nd	Analog Electronics laboratory	PC-EE 392	3.0	2.1	1.2	1.1	0.8	-	-	-	-	-	0.8	0.8	-	2.3	0.4	-
24	2nd	Numerical Methods laboratory	PC-CS 391	3.0	2.1	2.4	2.0	1.7	2.3	2.0	1.7	1.7	2.3	1.8	1.4	2.4	1.5	1.9	2.1
25	2nd	Electric machine-I	PC-EE 401	4.0	3.2	3.0	2.7	3.0	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.2	2.0
26	2nd	Digital Electronic	PC-EE 402	4.0	4.0	2.0	2.0	1.0	-	1.0	2.0	1.0	-	3.0	-	-	4.0	-	-
27	2nd	Electrical and Electronics Measurement	PC-EE 403	4.0	3.0	3.0	3.0	2.8	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0
28	2nd	Thermal Power Engineering	ES-EE 401	4.0	3.0	2.2	1.8	1.8	1.0	1.4	1.0	1.8	1.0	1.2	1.4	1.0	3.6	3.2	2.6
29	2nd	Values and Ethics in profession	HM-EE401	4.0	-	-	-	-	-	3.0	3.0	3.2	-	3.0	-	3.6	-	-	3.4
30	2nd	Environmental Science	MC- EE401	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.0	1.0	1.5	1.0	0.0	1.0
31	2nd	Electric machine-I laboratory	PC-EE 491	4.0	4.0	4.0	4.0	4.0	-	3.0	3.3	5.7	4.0	4.0	3.3	4.0	3.0	3.0	-
32	2nd	Digital electronics laboratory	PC-EE 492	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	-	-	4.0	1.0	2.8
33	2nd	Electrical and electronic measurement laboratory	PC-EE 493	4.0	2.2	2.3	2.0	1.2	1.0	0.8							1.8	0.7	

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34	2nd	Thermal power engineering laboratory	ES-ME 491	4.0	2.2	1.6	1.4	1.4	0.8	1.0	0.8	1.4	0.8	0.0	4.0	0.8	2.7	2.4	1.2
35	3rd	Economics for Engineers	HU-501	2.0	–	–	–	–	1.5	1.6	1.5		1.6	–	1.9	–	–	1.5	
36	2nd	Electric machine-II	EE-501	2.0	1.6	1.5	1.3	2.5	1.4	1.2	1.5	1.0	1.0	1.5	1.0	1.0	2.5	1.3	1.0
37	3rd	Power system-I	EE-502	2.0	1.8	0.8	0.8	1.0	0.8	0.3	–	–	0.1	–	–	–	1.8	0.2	–
38	3rd	Control system-I	EE-503	2.0	2.0	1.6	1.5	1.8	1.6				2.0	2.0	–		1.4	1.3	–
39	3rd	Micro Processor & Micro controller	EE-504C	2.0	1.5	0.9	1.5	1.0	0.5	1.5	1.5	–	0.7	1.0	–	0.5	1.4	0.5	1.5
40	3rd	Electric machine-II Laboratory	EE-591	3.0	3.0	3.0	3.0	–	2.3	2.3	2.8	3.0	3.0	2.8	3.0	3.0	3.0	3.0	3.0
41	3rd	Power system-I Laboratory	EE-592	2.2	1.2	0.8	1.2	0.7	0.4	0.0	0.4	0.5	0.5	0.0	0.0		1.8	0.0	0.0
42	3rd	Control system-I Laboratory	EE-593	4.0	3.5	3.5	3.5	2.2	2.2	1.0	1.0	1.0	1.7	1.0	1.0	1.8	2.7	1.0	1.0
43	3rd	Micro Processor & Microcontroller laboratory	EE-594C	3.0	2.5	2.3	1.5	0.8	1.5	–	–	–	0.8	1.5	0.8	–	1.7	1.7	
44	3rd	Seminar	EE-581	4.0	3.0	4.0	4.0	4.0	4.0	4.0			4.0	4.0	–	4.0	4.0	4.0	4.0
45	3rd	Principle of Management	HU-601	4.0	–	–	–	–	–	1.5	1.5	1.6		1.8	–	2.8	–	–	1.7
46	3rd	Control System-II	EE-601	4.0	4.0	3.2	2.2	1.4	3.2	–	–	–	–	–	–	–	2.8	2.2	–
47	3rd	Power System-II	EE-602	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
48	3rd	Power Electronics	EE-603	4.0	3.2	2.7	2.5	2.7	1.0	1.0	1.8	1.0	1.3	1.7	2.3	3.5	3.0	2.5	1.5
49	3rd	Data Base Management System	EE-604B	4.0	1.6	2.2	2.2	1.7	1.6	3.0	1.0	2.0	0.0	0.0	1.5	1.0	2.3	1.1	
50	3rd	Digital Signal Processing	EE-605A	4.0	3.0	1.0	–	–	1.0	–	–	–	1.0	3.0	–	–	2.8	–	

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
51	3rd	Control System-II	EE-691	4.0	3.5	2.0	2.2	1.0	1.0	1.7	1.0	1.0	1.0	1.0	1.0	1.8	2.7	1.0	1.8
52	3rd	Power System-II	EE-692	4.0	3.5	2.8	_	3.0	3.0	1.0	1.0	1.0	3.2	1.0	_	3.2	3.7	1.0	3.0
53	3rd	Power Electronics	EE-693	4.0	2.4	1.0		1.8	_		_	_	1.4	1.4	1.0	2.0	1.3	1.0	1.0
54	3rd	Data Base Management System	EE-694B	4.0	3.0	2.0	3.0	2.0	3.0	1.0	0.0	1.8	2.0	0.0	1.0	2.0	2.0	1.0	1.8
55	4th	Electric Drive	EE-701	2.0	2.0	1.8	1.5	1.1	1.1	0.8	0.9	0.5	1.0	0.9	1.1	1.7	1.5	1.0	2.0
56	4th	Utilization of Electric Energy	EE-702	2.0	1.6	1.5	1.1	1.5	1.3	1.3	1.5	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0
57	4th	Power system-III	EE-703A	3.0	1.9	1.9	1.1	0.8	1.1	0.8	1.0	0.5	1.0	0.5	0.5	1.0	1.9	1.2	1.0
58	4th	Renewable & Non conventional Energy	EE-704D	2.0	1.4	1.4	1.3	1.8	1.2	1.4	1.5	1.2	0.8	1.1	1.0	1.5	1.5	1.5	0.5
59	4th	Computer network	EE-705A	2.0	3.0	3.0	2.8	2.2	1.3	0.7	1.5	1.5	1.5	1.2	1.3	3.0	3.0	2.0	2.8
60	4th	Seminar on industrial training	EE-781	4.0	3.0	4.0	4.0	4.0	4.0	4.0	_	_	4.0	4.0	_	4.0	4.0	4.0	3.0
61	4th	Electric Drive laboratory	EE-791	4.0	4.0	4.0	2.0	4.0	3.0	-	-	2.0	4.0	3.0	_	4.0	4.0	4.0	2.4
62	4th	Computer network Laboratory	EE-792	4.0	2.3	2.3	1.8	2.5	2.3	1.8	2.3	2.8	2.0	2.0	1.8	2.8	2.8	2.8	2.8
63	4th	Electrical system design-I	EE782	3.0	2.6	2.6	2.6	2.6	2.1	3.0	1.5	3.0	3.0	1.8	3.0	1.5	3.0	1.5	1.8
64		Project-I	EE 783	3.0	3.0	4.0	3.0	4.0	4.0	4.0	_	_	3.0	4.0	_	3.0	4.0	4.0	3.0
65	4th	Organizational Behaviour	HU-801A	4.0	_	_	_	_	_	1.2	1.1	1.8		1.8	_	1.5	_	_	1.5
66	4th	Energy management & audit	EE-801C	4.0	3.0	4.0	3.0	4.0	4.0	4.0	_	_	3.0	4.0	_	3.0	4.0	4.0	3.0
67	4th	Sensors & Transducers	EE 802C	4.0	2.6	2.6	3.0	2.8	1.8	3.0	2.8	2.0	2.0	2.4	1.7	3.0	3.0	1.0	
68	4th	Project	EE-881	2.0	3.0	4.0	3.0	4.0	4.0	4.0	_	_	3.0	4.0	_	3.0	4.0	4.0	

69	4th	Electrical system Lab-II	EE-882	4.0	4.0	3.6	4.0	4.0	3.2	2.3	2.0	4.0	4.0	1.6	4.0	2.0	4.0	2.7	4.0

Hooghly Engineering & Technology College

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SL No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
70	4th	Grand Viva	EE-883	4.0	3.0	3.0	4.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	4.0	3.0	4.0	3.0	2.0
Average				3.2	1.9	2.1	2.1	1.9	1.8	1.7	1.6	1.7	1.8	1.9	1.5	2.0	2.3	1.8	1.8

Principal In Charge
Hooghly Engineering & Technology College
Vivekananda Road, Pipulpati, Hooghly

Electrical Engineering Department
H.E.T.C.
Hooghly

Hooghly Engineering & Technology College

Electrical Engineering Department

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Chemistry I	BS-CH101	4.0	2.0	1.4	1.0	4.0	3.8	2.8	3.4	1.0	2.2	1.3	0.0	2.6	1.5	1.0	1.0
2	1st	Mathematics -III	BS-M102	4.0	2.8	2.4	2.6	2.2	-	-	-	-	-	-	1.5	3.0	2.0	1.5	-
3	1st	Basic Electrical Engineering	ES-EE101	4.0	4.0	3.3	1.3	1.0	1.3	-	1.0	-	-	1.0	-	1.5	4.0	3.5	-
4	1st	Chemistry-I Laboratory	BS-CH191	4.0	2.0	3.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	3.0	-	3.7	3.0	3.3	1.0	4.0	2.3	3.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	3.0	2.3	1.8	2.7	1.7	2.1	1.5	1.5	1.4	1.8	1.7	0.8	1.5	1.8	2.0	1.7
7	1st	Physics I	BS-PH201	4.0	1.7	2.5	1.0	1.0	1.0	-	-	-	-	-	-	1.0	2.0	1.0	-
8	1st	Mathematics - IIB	BS-M202	4.0	2.8	2.3	3.0	2.3	-	-	-	-	-	-	1.0	3.0	1.8	1.0	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.8	2.8	1.5	2.5	3.0	2.8	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
10	1st	English	HM-HU201	4.0						1.0		2.0	2.0	4.0	2.0	3.0		3.0	
11	1st	Physics I Laboratory (Gr B)	BS-PH291	4.0	1.7	1.3	_	1.5	1.5	_	_	_	1.5	1.0	1.0	1.0	3.0	2.3	2.0
12	1st	Programming for Problem Solving	ES-CS291	4.0	2.8	2.8	1.5	2.5	3.0	2.8	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
13	1st	Workshop/Manufacturing Practices	ES-ME292	4.0	2.0	2.8	2.0	1.4	1.0	1.2	1.8	1.0	1.2	1.8	1.0	1.0	4.0	3.0	3.4
14	1st	Language Laboratory	HM-HU291	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Electric Circuit Theory	PC-EE 301	4.0	3.3	3.3	1.3	1.0	1.5	_	_	_	_	2.0	2.0	1.3	3.7	2.0	_
16	2nd	Analog Electronics	PC-EE 302	4.0	2.3	2.3	2.0	2.3	2.3	_	_	_		3.0	_	3.6	_	_	2.0
17	2nd	Electromagnetic field theory	PC-EE 303	4.0	3.0	1.3	2.0	0.8	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	2.8	0.3	
18	2nd	Engineering Mechanics	ES-ME 301	3.0	2.3	1.8	2.2	1.6	1.2	1.0	1.0	0.8	1.0	0.7	0.7	0.7	2.3	2.5	

Electrical Engineering Department HETC Hooghly

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
19	2nd	Mathematics III	BS-M 301	4.0	2.6	2.3	3.0	1.3	-	-	-	-	-	-	3.0	3.0	1.8	1.0	-
20	2nd	Biology for Engineers	BS-EE301	3.0	1.4	1.1	0.6	1.3	1.5	1.0	-	-	-	-	-	-	1.7	1.1	-
21	2nd	Indian Constitution	MC-EE 301	3.0	1.0	1.2	0.8	1.1	1.5	1.7	-	-	-	-	-	-	1.0	1.0	-
22	2nd	Electric Circuit Theory Laboratory	PC-EE 391	3.0	0.4	0.4	3.0	1.0	0.3	-	0.1	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.4
23	2nd	Analog Electronics laboratory	PC-EE 392	4.0	2.8	1.6	1.5	1.0	-	-	-	-	-	1.0	1.0	-	3.0	3.0	-
24	2nd	Numerical Methods laboratory	PC-CS 391	4.0	2.3	2.4	2.0	1.7	2.3	2.0	1.7	1.7	2.3	1.8	1.4	2.4	1.5	1.8	2.1
25	2nd	Electric machine-I	PC-EE 401	4.0	3.2	3.0	2.7	3.0	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.2	2.0
26	2nd	Digital Electronic	PC-EE 402	4.0	4.0	2.0	2.0	1.0	-	1.0	2.0	1.0	-	3.0	-	-	4.0	-	-
27	2nd	Electrical and Electronics Measurement	PC-EE 403	4.0	3.0	3.0	2.0	1.0	3.0	2.4	3.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0
28	2nd	Thermal Power Engineering	ES-EE 401	4.0	3.0	2.2	1.8	1.8	1.0	1.4	1.0	1.0	1.0	1.2	1.4	1.0	3.0	3.2	2.6
29	2nd	Values and Ethics in profession	HM-EE401	4.0	-	-	-	-	-	3.0	3.0	3.2	-	3.0	-	3.6	-	-	3.4
30	2nd	Environmental Science	MC- EE401	4.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.5	1.0	0.0	1.0
31	2nd	Electric machine-I laboratory	PC-EE 491	4.0	4.0	4.0	4.0	4.0	-	3.0	3.5	5.7	4.0	4.0	3.3	4.0	3.0	3.0	3.0
32	2nd	Digital electronics laboratory	PC-EE 492	4.0	2.8	2.5	2.3	1.0	1.0	0.8	1.5	1.0	4.0	3.0	-	-	4.0	1.0	2.0
33	2nd	Electrical and electronic measurement laboratory	PC-EE 493	4.0	3.0	3.0	2.0	1.2	3.0	1.0							3.0	0.7	
34	2nd	Thermal power engineering laboratory	ES-ME 491	4.0	2.2	1.6	1.4	1.4	0.8	1.0	0.8	1.4	0.8	0.9	1.0	0.8	2.7	2.4	
35	3rd	Electric machine-II	PC-EE 501	4.0	3.2	3.0	2.7	3.0	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.2	

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
36	2nd	Power system-I	PC-EE 502	4.0	3.5	3.7	1.5	2.0	1.7	0.7	-	-	0.2	-	-	-	2.7	0.2	-
37	2nd	Control system	PC-EE 503	4.0	4.0	3.5	3.2	3.7	3.2				-	3.0	3.0	-	-	2.7	2.7	-
38	2nd	Power electronics	PC-EE 504	4.0	3.3	3.0	2.3	2.8	1.3	1.0	1.8	1.0	1.3	1.8	2.3	3.5	3.0	2.7	1.2
39	2nd	Renewable & Non conventional energy	PE-EE 503C	4.0	2.8	2.8	2.6	2.8	2.4	2.8	3.0	2.4	1.6	2.2	2.0	3.0	3.0	3.0	1.0
40	2nd	Data structure & algorithm	OE-EE 501A	4.0	3.0	3.0	2.0	3.0	1.7	0.0	0.0	0.0	1.0	1.0	0.3	1.7	3.0	0.0	1.0
41	3rd	Electric Machine-II laboratory	PC-EE 591	4.0	4.0	4.0	4.0	4.0	-	3.0	3.0	3.5	4.0	4.0	4.7	4.0	4.0	4.0	4.0
42	3rd	Power system-I laboratory	PC-EE 592	2.9	1.6	1.0	1.6	0.9	0.6	0.0	0.6	0.6	0.6	0.0	0.0		1.8	0.9	0.6
43	3rd	Control system laboratory	PC-EE 593	4.0	3.0	1.5	1.5	1.0	1.0	1.0	1.0	-	1.5	1.3	1.0	2.0	1.8	1.2	1.5
44	3rd	Power Electronics laboratory	PC-EE 594	4.0	2.2	1.6	1.3	1.0	1.2	1.4	1.0	1.0	1.3	1.4	1.0	1.0	1.6	1.0	1.0
45	3rd	Power System-II	PC-EE 601	4.0	3.0	2.1	2.3	0.9	2.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	2.7	0.1	0.4
46	3rd	Micro processor & micro controller	PC-EE 602	4.0	3.0	1.7	3.0	2.0	1.0	2.0	3.0	_	1.4	2.0	_	1.6	2.7	1.0	0.0
47	3rd	Digital control system	PE-EE 601A	4.0	3.4	2.3	1.9	1.5	1.2	1.5	1.0	1.0	1.0	1.0	1.3	3.5	3.3	1.8	1.8
48	3rd	Industrial Electrical systems	PE-EE 602C	4.0	3.0	2.0	1.0	1.0	2.0	1.0	1.0	-	-	-	-	1.3	3.3	2.3	-
50	3rd	Digital Signal Processing	OE-EE 601	4.0	3.0	1.0	_	_	1.0	_	_	_	1.0	3.0	_	_	2.8	_	_
51	3rd	Economics for Engineers	HM-EE 601	4.0	_	_	_	_	2.0	2.0	1.0		3.0	_	2.0	_	_	2.0	
52	3rd	Power system-II laboratory	PC-EE 691	4.0	3.4	1.8	1.0	1.8	1.5	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.3	1.0	1.0
53	3rd	Micro processor & microcontroller laboratory	PC-EE692	4.0	3.0	3.0	2.0	1.0	3.0	_	_	_	1.0	2.0	1.0	_	2.3	2.3	_

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
54	3rd	Electrical & Electronic design laboratory	PC-EE 681	4.0	4.0	3.7	3.3	2.7	3.7	1.0	1.0	1.0	4.0	3.8	2.8	2.0	4.0	2.0	1.0
55	4th	Electric Drive	EE-701	3.0	3.0	2.7	2.3	1.7	1.7	1.2	1.4	0.8	1.5	1.4	1.7	2.6	2.3	1.5	1.5
56	4th	Utilization of Electric power	EE-702	4.0	3.2	3.0	2.6	3.0	2.6	2.5	3.0	2.0	2.0	2.0	2.0	2.0	2.8	2.0	2.0
57	4th	Power system-III	EE-703A	4.0	3.8	3.8	2.2	1.6	2.2	1.6	2.0	1.0	-	1.0	1.0	2.0	3.8	3.4	-
58	4th	Renewable & Non conventional Energy	EE-704D	4.0	3.2	3.0	2.6	3.0	2.6	2.5	3.0	2.0	2.0	2.0	2.0	2.0	2.8	2.0	2.0
59	4th	Computer network	EE-705A	4.0	3.0	3.0	2.8	2.2	1.3	0.7	1.5	1.5	1.5	1.2	1.3	3.0	3.0	2.0	2.0
60	4th	Seminar on industrial training	EE-781	4.0	3.0	4.0	4.0	4.0	4.0	4.0		-	4.0	4.0	-	4.0	4.0	4.0	3.0
61	4th	Electric Drive laboratory	EE-791	4.0	4.0	4.0	2.0	3.0	4.0	-	-	2.0	4.0	3.0	-	4.0			
62	4th	Computer network Laboratory	EE-792	4.0	3.0	3.0	3.0	2.0	2.5	2.0	1.5	1.8	3.0	2.0	2.8	3.0	3.0	2.0	2.5
63	4th	Electrical system design-I	EE782	4.0	3.5	3.5	3.5	3.5	2.8	4.0	2.0	4.0	4.0	2.4	4.0	2.0	4.0	2.0	4.0
64	4th	Project-I	EE 783	4.0	3.0	4.0	4.0	4.0	4.0	4.0	-	-	4.0	4.0	-	4.0	4.0	4.0	3.0
65	4th	Organizational Behaviour	HU-801A	4.0	-	-	-	-	-	1.2	1.1	1.6		1.8	-	1.5	-	-	[illegible]
66	4th	Energy management & audit	EE-801C	4.0	3.2	2.7	2.7	1.5	1.0	2.0	3.0	1.0	-	2.0	1.0	1.0	2.8	1.7	[illegible]
67	4th	Sensors & Transducers	EE 802C	4.0	2.6	2.6	3.0	2.8	1.8	3.0	2.8	2.0	2.0	2.4	1.7	3.0	3.0	1.0	2.6
68	4th	Project	EE-881	4.0	3.0	4.0	3.0	4.0	4.0	4.0	-	-	3.0	4.0	-	3.0	4.0	4.0	3.0
69	4th	Electrical system Lab-II	EE-882	4.0	3.0	3.0	4.0	2.0	2.0	2.0	1.0	2.0	2.0	4.0	4.0	3.0	4.0	3.0	
70	4th	Grand Viva	EE-883	4.0	3.0	3.0	3.3	1.7	1.7	2.0	1.0	2.0	2.0	3.3	4.0	3.0	3.3	3.0	[illegible]
Average				3.9	2.9	2.5	2.3	2.1	2.0	1.8	1.7	1.6	2.1	2.1	1.6	2.1	2.8	1.9	[illegible]

Principal In Charge
Hooghly Engineering & Technology College
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Electrical Engineering Department
Hooghly

Hooghly Engineering & Technology College

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Chemistry I	BS-CH101	4.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.5	1.0	0.0	1.0
2	1st	Mathematics -IB	BS-M102	3.0	2.1	1.8	2.0	1.7	-	-	-	-	-	-	1.1	2.3	1.5	1.7	-
3	1st	Basic Electrical Engineering	ES-EE101	4.0	4.0	3.5	1.5	1.0	1.3	-	1.0	-	-	1.0	-	1.5	4.0	1.5	-
4	1st	Chemistry-I Laboratory	BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.5	2.0	1.3	1.3	1.0	0.0	2.0	1.0	1.0	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	3.7	3.0	-	3.7	3.0	3.3	3.0	4.0	2.3	3.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.9	2.4	2.2	3.0	2.0	2.4	2.6	2.2
7	1st	Physics-I	BS-PH201	3.0	1.3	1.9	0.8	0.8	0.8	-	-	-	-	-	-	0.8	1.5	0.5	-
8	1st	Mathematics -IIB	BS-M202	3.0	2.1	1.7	2.1	0.9	-	-	-	-	-	-	0.8	2.3	1.2	0.8	-
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.8	2.8	1.5	2.5	3.0	2.6	2.8	2.4	3.0	2.6	2.0	3.0	2.5	2.6	2.8
10	1st	English	HM-HU201	4.0						3.0		2.0	2.0	4.0	2.0	3.0		3.0	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.3	1.0	-	1.1	1.1	-	-	-	1.1	0.8	0.8	0.8	2.3	1.8	1.5
12	1st	Programming for Problem Solving	ES-CS291	2.0	1.4	1.4	0.8	1.3	1.5	1.3	1.4	1.2	1.5	1.5	1.0	1.5	1.3	1.3	1.4
13	1st	Workshop/Manufacturing Practices	ES-ME292	4.0	2.6	2.6	2.0	1.4	1.0	1.2	1.6	1.0	1.2	1.6	1.0	1.0	4.0	3.4	3.4
14	1st	Language Laboratory	HM-HU291	4.0						1.0		2.0	2.0	4.0	2.0	3.0		3.0	
15	2nd	Electric Circuit Theory	PC-EE 301	4.0	3.3	3.3	1.3	1.0	1.5	-	-	-	-	2.0	2.0	1.3	3.3	2.0	-
16	2nd	Analog Electronics	PC-EE 302	4.0	2.1	2.3	2.0	2.1	2.3	-	-	-	-	3.0	-	3.6	-	-	-
17	2nd	Electromagnetic field theory	PC-EE 303	4.0	3.0	1.3	2.0	0.8	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	2.8	0.3	-

Electrical Engineering Department

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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18	2nd	Engineering Mechanics	ES-ME 301	4.0	2.8	2.4	3.0	2.2	1.6	1.4	1.4	1.2	1.4	1.0	1.0	1.0	3.0	3.0	2.6
19	2nd	Mathematics-III	BS-M 301	3.0	2.1	1.7	2.3	0.9	-	-	-	-	-	-	0.8	2.3	1.3	0.8	-
20	2nd	Biology for Engineers	BS-EE301	4.0	1.8	1.5	1.0	1.1	2.0	1.3	-	-	-	-	-	-	2.3	1.5	-
21	2nd	Indian Constitution	MC-EE 301	4.0	1.5	1.3	1.2	1.1	2.0	1.3						1.8	2.1	2.0	
22	2nd	Electric Circuit Theory Laboratory	PC-EE 391	3.0	0.8	0.8	2.0	3.0	0.5	-	0.3	0.8	0.8	0.5	0.8	0.8	0.8	0.3	0.8
23	2nd	Analog Electronics laboratory	PC-EE 392	4.0	2.8	1.6	1.5	1.0	-	-	-	-	-	1.0	1.0	-	3.0	1.0	-
24	2nd	Numerical Methods laboratory	PC-CS 391	4.0	3.0	1.0	1.0	1.1	-	-	-	-	-	1.0	1.0	1.0	1.0	1.0	0.7
25	2nd	Electric machine-I	PC-EE 401	4.0	3.2	3.0	2.7	3.0	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.2	2.0
26	2nd	Digital Electronic	PC-EE 402	3.0	3.0	1.5	1.5	0.8		0.8	1.5	0.8		2.3	-	-	3.0	-	-
27	2nd	Electrical and Electronics Measurement	PC-EE 403	4.0	3.0	3.0	2.7	3.0	2.8	2.4	3.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0
28	2nd	Thermal Power Engineering	ES-EE 401	4.0	2.2	1.6	1.4	1.4	0.8	1.0	0.8	1.4	0.8	0.9	1.0	0.8	2.7	2.4	1.2
29	2nd	Values and Ethics in profession	HM-EE401	4.0	-	-	-	-	-	3.0	3.0	3.2		3.0	-	3.0	-	-	3.4
30	2nd	Environmental Science	MC- EE401	4.0	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	0.0
31	2nd	Electric machine-I laboratory	PC-EE 491	4.0	4.0	4.0	4.0	4.0	-	3.0	3.3	3.7	4.0	4.0	3.3	4.0	3.8	3.0	-
32	2nd	Digital electronics laboratory	PC-EE 492	3.0	2.1	1.9	1.7	0.8	0.8	0.6	1.1	0.8	3.0	2.3	-	-	3.0	0.8	1.5
33	2nd	Electrical and electronic measurement laboratory	PC-EE 493	3.0	2.2	2.3	2.0	1.2	1.0	0.8							1.8	0.7	

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
34	2nd	Thermal power engineering laboratory	ES-ME 491	2.2	2.2	2.4	1.8	2.2	1.2	1.2	1.4	1.2	1.4	1.0	1.0	1.0	2.8	3.0	1.0
35	3rd	Electric machine-II	PC-EE 501	4.0	3.2	3.0	2.7	3.0	2.8	2.4	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.2	2.0
36	3rd	Power system-I	PC-EE 502	4.0	3.5	1.7	1.5	2.0	1.7	0.7	-	-	0.2	-	-	-	2.7	0.2	-
37	3rd	Control system	PC-EE 503	4.0	4.0	3.5	3.2		3.2	-	-	-	-	-	-	-	2.7	2.7	-
38	3rd	Power electronics	PC-EE 504	4.0	3.5	3.0	2.2	2.8	1.3	1.0	1.8	1.0	1.3	1.8	2.3	3.5	3.0	2.7	1.2
39	3rd	Power Plant Engineering	PE-EE 501D	4.0	3.5	1.7	1.5	2.0	1.7	0.7	-	-	0.2	-	-	-	2.7	0.2	-
40	3rd	Data structure & algorithm	OE-EE 501A	4.0	3.0	3.0	2.6	3.0	1.7	0.0	0.0	0.0	1.0	1.0	0.3	1.7	3.0	0.0	1.0
41	3rd	Electric Machine-II laboratory	PC-EE 591	4.0	4.0	4.0	4.0	4.0	-	3.0	3.0	3.5	4.0	4.0	3.5	4.0	4.0	4.0	4.0
42	3rd	Power system-I laboratory	PC-EE 592	4.0	3.0	4.0	3.0	4.0	-	4.0	3.5	3.5	3.5	4.0	3.7	3.5	4.0	4.0	4.0
43	3rd	Control system laboratory	PC-EE 593	4.0	3.0	1.5	1.5	1.0	1.0	1.0	1.0	-	1.8	1.3	1.0	2.0	1.8	1.2	1.5
44	3rd	Power Electronics laboratory	PC-EE 594	4.0	2.2	1.6	1.5	1.8	1.2	1.4	1.0	1.0	1.3	1.4	1.0	1.0	1.8	1.0	1.0
45	3rd	Power System-II	PC-EE 601	4.0	3.0	2.1	2.1	0.9	2.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	2.7	0.1	0.4
46	3rd	Micro processor & micro controller	PC-EE 602	4.0	3.0	1.7	3.0	2.0	1.0	3.0	3.0	-	1.4	2.0	-	1.0	2.7	1.0	3.0
47	3rd	Electrical Machine Design	PE-EE 601C	4.0	1.8	1.5	1.5	1.5	1.5	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.4	1.1	0.8
49	3rd	Industrial Electrical systems	PE-EE 602C	4.0	3.0	2.0	1.0	1.0	2.0	1.0	1.0	-	-	-	-	1.3	3.3	2.3	-
50	3rd	Digital Signal Processing	OE-EE 601	4.0	3.0	1.0	-	-	1.0	-	-	-	1.0	3.0	-	-	2.8	-	-
51	3rd	Economics for Engineers	HM-EE 601	4.0	-	-	-	-	3.0	2.0	2.0		2.0	-	2.0	-	-	-	-

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52	3rd	Power system-II laboratory	PC-EE 691	4.0	3.4	1.9	1.0	1.8	1.5	1.0	1.0	1.0	2.0	3.0	1.0	2.0	2.1	1.0	1.0
53	3rd	Micro processor & microcontroller laboratory	PC-EE692	4.0	3.0	3.0	2.0	1.0	2.0	-	-	-	1.0	2.0	1.0	-	2.3	2.3	-
54	3rd	Electrical & Electronic design laboratory	PC-EE 693	4.0	4.0	3.7	3.3	2.7	3.7	1.0	1.0	1.0	4.0	3.0	2.8	2.0	4.0	2.0	1.0
55	4th	Electric Drive	PC-EE 701	3.0	3.0	2.5	1.8	1.4	1.7	1.2	1.4	0.8	1.7	1.1	1.5	3.0	2.7	2.0	1.7
	4th	Control System Design	PE-EE 703A	2.0	1.4	1.4	1.3	1.4	1.2	1.4	1.5	1.2	0.8	1.1	1.0	1.5	1.5	1.5	0.5
57	4th	Power generation economics	PE-EE 701C	4.0	3.4	1.6	2.0	0.8	1.2	0.5	0.0	0.0	0.3	0.0	0.0	1.8	3.0	0.3	0.0
58	4th	Internet of things	OE-EE701B	4.0	2.8	2.3	2.3	2.0	2.3	2.0	2.8	3.0	2.5	2.3	2.0	2.3	2.5	2.3	2.3
59	4th	Computer network	OE-EE702C	4.0	3.0	3.0	2.8	2.2	1.3	0.7	1.5	1.5	1.2	1.3	3.0	3.0	2.0	2.0	2.0
60	4th	Principle of Management	HM-EE701	4.0	3.4	1.6	2.0	0.8	1.2	0.5	0.0	0.0	0.3	0.0	0.0	1.8	3.0	0.3	0.0
61	4th	Electric Drive laboratory	PC-EE 791	4.0	4.0	4.0	2.0	3.0	4.0	-	-	2.0	4.0	3.0	-	4.0			
62	4th	Project stage-I	PW-EE 781	4.0	4.0	4.0	3.0	4.0	3.0	4.0	-	-	4.0	4.0	-	4.0	3.0	4.0	3.0
63	4th	Seminar	PW-EE782	4.0	3.0	4.0	4.0	4.0	4.0	4.0	-	-	4.0	4.0	-	4.0	4.0	4.0	3.0
64	4th	Utilization of Electric Power	PC-EE 801	4.0	3.2	3.0	2.6	3.0	2.6	2.5	3.0	2.0	2.9	2.0	2.0	2.0	2.8	2.0	2.0
65	4th	POWER SYSTEM DYNAMICS AND CONTROL	PE-EE-801B	4.0	4.0	1.5	1.8	1.0	0.8	0.3	0.0	0.0	0.3	0.0	0.0	0.8	3.0	0.3	0.0
66	4th	Sensors and Transducers	OE-EE 801D	4.0	2.6	2.6	3.0	2.8	1.8	3.0	2.8	2.0	2.0	2.4	1.7	3.0	3.0	1.0	
67	4th	Project stage-II	PW-EE 881	4.0	3.0	4.0	4.0	4.0	4.0	4.0	-	-	4.0	4.0	-	4.0	4.0	4.0	
Average					3.8	2.8	2.3	2.1	1.9	1.9	1.6	1.6	1.5	1.9	2.6	1.4	3.0	2.6	1.7

Principal In Charge
Engineering & Technology College
Hooghly

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1	1st	Chemistry I	BS-CH101	1.0	0.5	0.4	0.3	1.0	0.9	0.7	0.9	0.3	0.6	0.3	0.0	0.7	0.4	0.3	0.3
2	1st	Mathematics -IB	BS-M102	1.0	0.7	0.6	0.7	0.6	-	-	-	-	-	-	0.4	0.8	0.5	0.4	-
3	1st	Basic Electrical Engineering	ES-EE101	1.0	1.0	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1.0	0.4	-
4	1st	Chemistry-I Laboratory	BS-CH191	4.0	2.0	1.0	1.0	2.0	2.0	1.8	2.0	1.3	1.5	1.0	0.0	2.0	1.0	1.0	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE191	4.0	4.0	3.7	3.3	3.7	3.0	1.7	1.0	_	3.7	3.0	3.3	1.0	4.0	2.3	1.0
6	1st	Engineering Graphics & Design(Gr-B)	ES-ME191	4.0	3.0	2.4	3.6	2.2	2.8	2.0	2.0	1.8	2.4	2.2	1.0	2.0	2.4	2.0	2.2
7	1st	Physics-I	BS-PH201	1.0	0.4	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.4	0.0
8	1st	Mathematics -IIB	BS-M202	1.0	0.7	0.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.4	0.3	0.0
9	1st	Programming for Problem Solving	ES-CS201	4.0	2.0	3.0	2.0	1.8	2.8	2.8	3.0	2.8	1.8	3.0	2.5	2.0	3.0	2.0	2.3
10	1st	English	HM-HU201	3.0						0.8		1.5	1.5	3.0	1.5	0.8		2.3	
11	1st	Physics-I Laboratory (Gr-B)	BS-PH291	3.0	1.3	1.0	_	1.1	1.1	_	_	_	1.1	0.8	0.9	0.8	2.3	1.8	1.5
12	1st	Programming for Problem Solving	ES-CS291	3.0	1.0	1.3	_	1.1	1.1	_	_	_	1.1	0.8	0.8	0.8	2.3	1.8	1.5
13	1st	Workshop/Manufacturing Practices	ES-ME292	1.9	1.9	2.0	1.5	1.0	0.8	0.9	1.2	0.8	0.9	1.2	0.8	0.8	3.0	2.3	2.3
14	1st	Language Laboratory	HM-HU291	4.0						1.0		2.0	2.0	4.0	2.0	1.0		3.0	
15	2nd	Electric Circuit Theory	PC-EE 301	1.0	0.8	0.8	0.3	0.3	0.4	_	_	_	_	0.5	0.5	0.3	0.9	0.5	
16	2nd	Analog Electronics	PC-EE 302	1.0	0.6	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.0	0.5	0.5	0.3	
17	2nd	Electromagnetic field theory	PC-EE 303	3.0	0.9	0.3	0.5	0.2	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	2.1	0.2	

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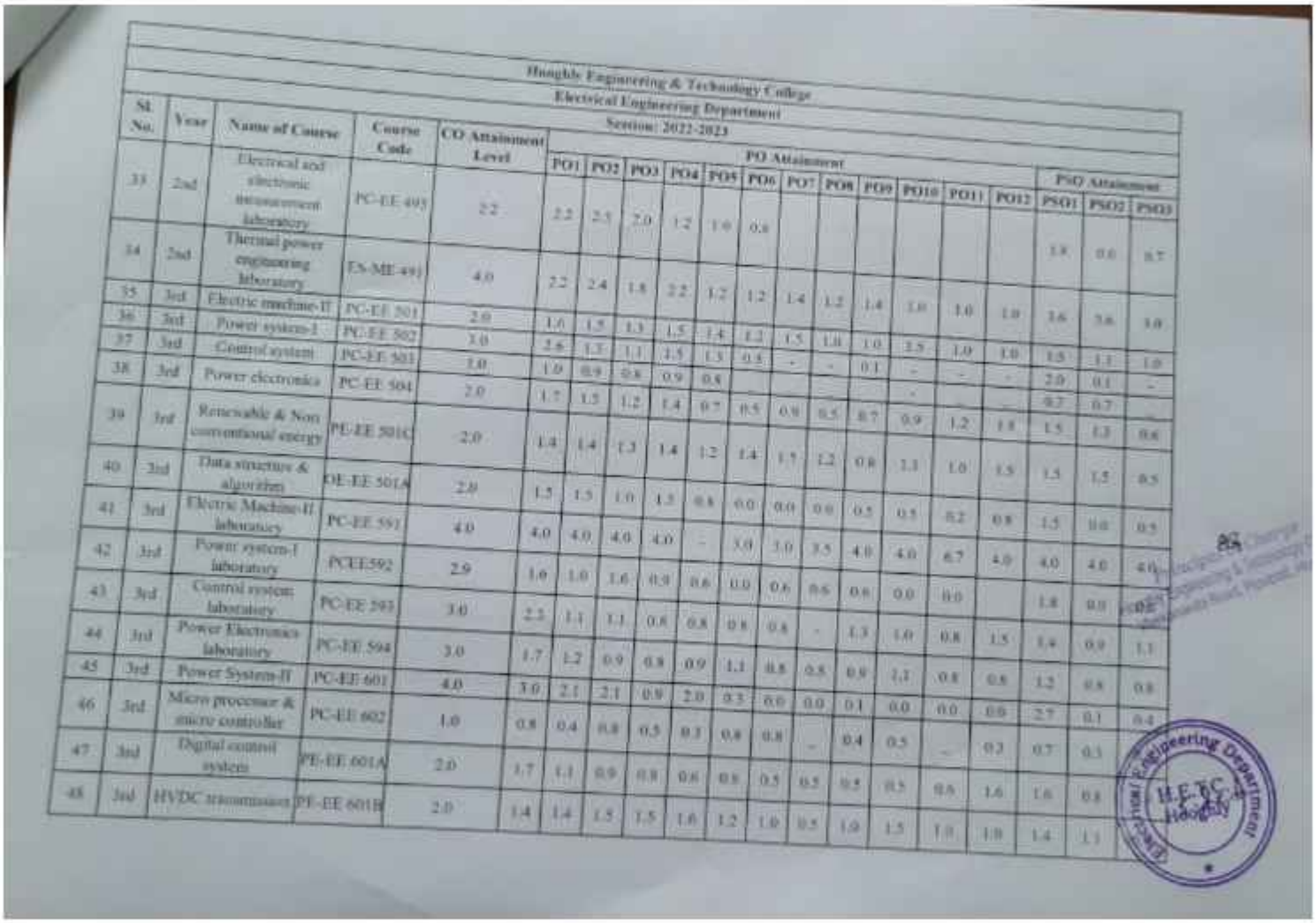
18	2nd	Engineering Mechanics	ES-ME 301	2.0	1.4	1.2	1.5	1.1	0.8	0.7	0.7	0.6	0.7	0.5	0.5	0.5	1.8	1.7	1.3
19	2nd	Mathematics-III	BS-M 301	2.0	1.4	1.1	1.5	0.6	-	-	-	-	-	-	0.5	1.5	0.9	0.5	-
20	2nd	Biology for Engineers	BS-EE301	1.0	0.5	0.4	0.3	0.4	0.5	0.3	-	-	-	-	-	-	0.6	0.4	-
21	2nd	Indian Constitution	MC-EE 301	1.0	0.5	0.4	0.3	0.4	0.5	0.3	-	-	-	-	-	-	0.6	0.4	-
22	2nd	Electric Circuit Theory Laboratory	PC-EE 391	3.0	2.6	1.5	1.4	1.3	1.8	0.5	-	-	1.3	-	-	-	2.0	1.5	0.6
23	2nd	Analog Electronics laboratory	PC-EE 392	4.0	2.8	1.6	1.5	1.0	-	-	-	-	-	1.0	1.0	-	3.0	1.0	-
24	2nd	Numerical Methods laboratory	PC-CS 391	3.0	2.3	2.4	2.0	1.7	2.3	2.0	1.7	1.7	2.3	1.8	1.4	2.4	1.5	1.9	2.1
25	2nd	Electric machine-I	PC-EE 401	1.0	0.8	0.8	0.7	0.8	0.7	0.6	0.6	0.5	0.5	0.8	0.5	0.5	0.8	0.5	0.5
26	2nd	Digital Electronic	PC-EE 402	1.0	1.0	0.5	0.5	0.3	-	0.3	0.5	0.3	-	0.8	-	-	1.0	-	-
27	2nd	Electrical and Electronics Measurement	PC-EE 403	4.0	3.0	2.0	2.0	3.0	2.0	1.3	1.5	1.3	1.5	1.0	1.0	1.3	1.0	0.0	0.0
28	2nd	Thermal Power Engineering	ES-EE 401	2.0	1.5	1.1	0.9	0.9	0.5	0.7	0.5	0.9	0.5	0.6	0.7	0.5	1.8	1.6	0.5
29	2nd	Values and Ethics in profession	HM-EE401	2.0	-	-	-	-	-	1.5	1.5	1.6	-	1.5	-	1.8	-	-	1.7
30	2nd	Environmental Science	MC- EE401	4.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.0	1.0	1.5	1.0	0.0	-
31	2nd	Electric machine-I laboratory	PC-EE 491	3.0	3.0	3.0	3.0	-	2.3	1.8	2.0	3.0	3.0	2.0	0.1	3.0	2.3	2.3	-
32	2nd	Digital electronics laboratory	PC-EE 492	3.0	2.1	1.9	1.7	0.8	0.8	0.6	1.1	0.8	3.0	2.3	-	-	3.0	0.8	-



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33	2nd	Electrical and electronic measurement laboratory	PC-EE 493	2.2	2.2	2.5	2.0	1.2	1.0	0.8							1.8	0.0	0.7
34	2nd	Thermal power engineering laboratory	ES-ME 491	4.0	2.2	2.4	1.8	2.2	1.2	1.2	1.4	1.2	1.4	1.0	1.0	1.0	3.6	3.6	1.0
35	3rd	Electric machine-II	PC-EE 501	2.0	1.0	1.5	1.3	1.5	1.4	1.2	1.5	1.0	1.0	2.5	1.0	1.0	1.5	1.1	1.0
36	3rd	Power system-I	PC-EE 502	3.0	2.6	1.7	1.1	2.5	1.5	0.5	-	-	0.1	-	-	-	2.0	0.1	-
37	3rd	Control system	PC-EE 503	3.0	1.0	0.9	0.8	0.9	0.8					-			0.7	0.7	
38	3rd	Power electronics	PC-EE 504	2.0	1.7	1.5	1.2	1.4	0.7	0.5	0.8	0.5	0.7	0.9	1.2	1.8	1.5	1.3	0.8
39	3rd	Renewable & Non conventional energy	PE-EE 501C	2.0	1.4	1.4	1.3	1.4	1.2	1.4	1.7	1.2	0.8	1.3	1.0	1.5	1.3	1.5	0.5
40	3rd	Data structure & algorithm	OE-EE 501A	2.0	1.5	1.5	1.0	1.5	0.8	0.0	0.0	0.0	0.5	0.5	0.2	0.8	1.5	0.0	0.5
41	3rd	Electric Machine-II laboratory	PC-EE 591	4.0	4.0	4.0	4.0	4.0	-	3.0	3.0	3.5	4.0	4.0	4.7	4.0	4.0	4.0	4.0
42	3rd	Power system-I laboratory	PCEE592	2.9	1.0	1.0	1.6	0.9	0.6	0.0	0.6	0.6	0.6	0.0	0.0		1.8	0.0	0.2
43	3rd	Control system laboratory	PC-EE 593	3.0	2.3	1.1	1.1	0.8	0.8	0.8	0.8	-	1.3	1.0	0.8	1.5	1.4	0.9	1.1
44	3rd	Power Electronics laboratory	PC-EE 594	3.0	1.7	1.2	0.9	0.8	0.9	1.1	0.8	0.8	0.9	1.1	0.8	0.8	1.2	0.8	0.8
45	3rd	Power System-II	PC-EE 601	4.0	3.0	2.1	2.1	0.9	2.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	2.7	0.1	0.4
46	3rd	Micro processor & micro controller	PC-EE 602	1.0	0.8	0.4	0.8	0.5	0.3	0.8	0.8	-	0.4	0.5	-	0.3	0.7	0.3	
47	3rd	Digital control system	PE-EE 601A	2.0	1.7	1.1	0.9	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.6	1.6	1.6	0.8	
48	3rd	HVDC transmission	PE-EE 601B	2.0	1.4	1.4	1.5	1.5	1.6	1.2	1.0	0.5	1.0	1.5	1.0	1.0	1.4	1.1	

Electrical Engineering Department

H.E.T.C. Hooghly

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					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
49	3rd	Industrial Electrical systems	PE-EE 602C	3.0	2.3	1.5	0.8	0.8	1.5	0.8	0.8	2.0	2.0	2.0	2.0	1.0	2.5	1.4	2.0
50	3rd	Digital Signal Processing	OE-EE 601	2.0	1.5	0.3	_	_	0.5	_	_	_	0.5	1.5	_	_	1.4	_	_
51	3rd	Economics for Engineers	HM-EE 601	2.0	_	_	_	_	1.3	1.6	1.5		1.6	_	1.9	_	_	1.5	
52	3rd	Power system-II laboratory	PC-EE 691	2.0	1.5	1.1	1.1	0.4	1.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	1.4	0.1	0.2
53	3rd	Micro processor & microcontroller laboratory	PC-EE692	3.0	2.3	2.3	1.5	0.8	1.5	_	_	_	0.8	1.5	0.8	_	1.7	1.5	_
54	3rd	Electrical & Electronic design laboratory	PC-EE 681	4.0	4.0	3.7	3.3	2.7	3.7	1.0	1.0	1.0	4.0	3.8	2.8	2.0	4.0	2.0	1.0
55	4th	Electric Drive	PC-EE 701	2.0	2.0	1.5	1.2	0.9	1.1	2.0	0.9	1.3	2.8	1.9	2.5	2.0	1.8	1.5	2.0
56	4th	Electrical Energy conservation & Auditing	PE-EE 701B	2.0	1.8	1.3	1.3	0.8	0.5	1.1	1.4	0.5	0.5	1.0	0.5	0.5	1.4	0.9	0.5
57	4th	Power generation economics	PE-EE 701C	2.0	1.7	0.8	1.0	0.4	0.6	0.3	0.0	0.0	0.2	0.0	0.0	0.9	1.5	0.2	0.0
58	4th	Internet of things	OE-EE701B	4.0	2.8	2.3	2.3	2.0	2.3	2.0	2.8	3.0	2.5	2.3	2.0	2.3	2.5	2.3	1.5
59	4th	Computer network	OE-EE702C	2.0	3.0	3.0	2.8	2.2	1.5	0.7	1.5	1.5	1.5	1.2	1.3	3.0	3.0	2.0	2.0
60	4th	Principle of Management	HM-EE791	2.0	_	_	_	_	_	1.5	1.5	1.6		1.8	_	2.0	_	_	1.7
61	4th	Electric Drive laboratory	PC-EE 791	4.0	4.0	4.0	2.0	4.0	3.0	-	-	2.0	4.0	3.0	-	4.0	4.0	4.0	2.0
62	4th	Project stage-I	PW-EE 781	4.0	4.0	3.0	4.0	4.0	3.0	2.0	-	3.0	4.0	3.0	-	4.0	4.0	4.0	
63	4th	Seminar	PW-EE782	4.0	3.0	4.0	4.0	4.0	4.0	4.0	_	_	4.0	4.0	_	4.0	4.0	4.0	
64	4th	Utilization of Electric Power	PC-EE 801	2.0	1.6	0.8	0.7	0.6	0.7	0.6	0.9	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.5

Principal
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Electrical Engineering Department
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Sl. No.	Year	Name of Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
65	4th	Advanced Electric Drives	PE-EE 801C	2.0	2.0	2.0	2.0	2.0	1.6	1.4	0.5	1.8	0.5	1.5	1.3	2.0	0.9	1.6	1.5
66	4th	Soft computing Techniques	OE-EE 801	2.0	2.0	2.0	2.0	2.0	1.6	1.4	0.5	1.8	0.5	1.5	1.3	2.0	0.9	1.6	1.5
67	4th	Project stage-II	PW-EE 881	4.0	4.0	3.0	2.0	4.0	3.0	1.0	-	3.0	4.0	3.0	-	4.0	4.0	4.0	2.8
Average				2.5	1.9	1.6	1.5	1.4	1.3	1.1	1.0	1.2	1.4	1.4	1.0	1.4	1.3	1.3	1.3

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Mechanical Engineering Department

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Sl. No.	Year	Name of the Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH 101	0	0.4	0.6	0.3	0.3	0.3							0.3	0.4	0.4	0
2	1st	Mathematics –IB	BS-M 102	1	1	1	0.6	0.5	-	-	-	-	-	-	-	0.8	0.5	0.3	-
3	1st	Basic Electrical Engineering	ES-EE 101	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1	0.4	-
4	1st	Physics-I Laboratory	BS-PH 191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	1.3	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE 191	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3	1
6	1st	Workshop/ Manufacturing Practices	ES-ME 192	4	2.6	2.6	2	1.4	1	1.8	1.6	2.2	1.2	1	1	1	4	3.6	3.4
7	1st	Chemistry-I	BS-CH 201	1	0.5	0.5	0.3	0.9	0.9	0.7	0.8	0.3	0.6	0.3	0	0.7	0.3	0.3	0.5
8	1st	Mathematics –IIB	BS-M 202	1	1	1	0.6	0.6	-	-	-	-	-	-	-	0.7	0.6	0.3	-
9	1st	Programming for Problem Solving	ES-CS 201	2	1.375	1.375	0.75	1.25	1.5	1.313	1.375	1.188	1.5	1.313	1	1.5	1.25	1.313	1.375
10	1st	English	HM-HU 201	2						0.5	0	1	1	2	1	0.5	0	0.5	
11	1st	Chemistry-I Laboratory	BS-CH 291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st	Programming for Problem Solving Lab	ES-CS 291	3	2.063	2.063	1.125	1.875	2.25	1.969	2.063	1.781	2.25	1.969	1.5	2.25	1.875	1.969	2.063
13	1st	Engineering Graphics & Design	ES-ME 291	3	1.35	0.9	1.65	1.2	1.35	0.3	0.45	0	0.3	0.75	0.3	1.5	1.2	1.05	0.9
14	1st	Language Laboratory	HM-HU 291	4						1	0	2	2	4	2	1	0	3	
15	2nd	Values & Ethics in Profession	HU-301	2	1.2	-	0.75	-	-	1.5	1.5	1.6	-	1.8	-	2	-	125	1.7
16	2nd	Physics-2	PH-301	1	0.4	0.6	0.3	0.3	0.3							0.3	0.4	0.4	0

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17	2nd	Basic Environmental Engineering & Elementary Biology	CH301	2	1.3	0.8	0.9	1	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.6	1	0.7
18	2nd	Applied Thermodynamics	ME 301	1	0.55	0.85	0.8	0.8	0.35	0.6	0.35	0.3	0.35	0.3	0.25	0.7	0.8	0.85	0.4
19	2nd	Strength of Materials	ME 302	2	0.9	0.7	0.9	0.7	0.9	0.4	0.3	0.4	0.4	0.5	0.2	0.9	0.9	0.7	0.6
20	2nd	Engineering Materials	ME 303	3	2.3	2.3	2.1	2.6	1.2	1.5	0.9	1.4	0.8	0.9	0.8	2.6	2.6	2.6	1.2
21	2nd	Technical Report Writing & Language Lab Practice	HU 381	4						1		2	2	4	2	1		3	
22	2nd	Physics Lab-2	PH 391	3	1.3	1	0	1.1	1.1				1.1	0.8	0.8	0.8	1.5	1.3	1.5
23	2nd	Machine Drawing –I	ME 391	3	1.95	1.95	2.7	1.05	0.75	1.8	0.75	0.75	2.25	2.7	0.75	1.95	2.7	2.7	2.25
24	2nd	Workshop Practice-II	ME 392	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2	1.8
25	2nd	Applied Mechanics Lab	ME 393	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8	1.2
26	2nd	Numerical Methods	M(CS)401	2	2	1.5	2	1.3	-	-	-	-	-	-	-	0.5	1	0.7	-
27	2nd	Mathematics-3	M 402	1	1	0.8	0.5	-	-	-	-	-	-	-	-	0.7	0.7	0.5	-
28	2nd	Fluid Mechanics & Hydraulic Machines	ME 401	1	0.5	0.85	0.8	0.8	0.4	0.6	0.3	0.3	0.4	0.3	0.25	0.65	0.85	0.85	0.4
29	2nd	Mechanisms	ME 402	2	1.8	1.6	1.8	1.1	0.9	0.7	0.7	0.5	1.2	0.5	0.5	0.8	1.7	1.7	0.7
30	2nd	Primary Manufacturing Processes	ME 403	2	1.6	1.3	1.1	1.1	0.8	0.7	0.9	0.6	0.7	0.6	0.7	0.5	1.8	1.6	1.5
31	2nd	Numerical Methods Lab	M(CS)491	3	2.3	2.4	1.95	1.65	2.3	1.95	1.65	1.65	2.3	1.8	1.35	2.4	1.5	1.8	2.1
32	2nd	Fluid Mechanics & Hydraulics Lab	ME 491	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2	1.8
33	2nd	Manufacturing Technology Lab	ME 492	4	3.4	2.8	2.8	2.6	1.8	2.2	2	1.8	1.6	1.4	1.6	1.2	3.4	3	2.8
34	2nd	Material Testing Lab	ME 493	4	2.6	3.4	2.8	3.2	1.4	2	1.2	1.4	1	1	1	3.2	3.4	3.4	1.8
35	2nd	Machine Drawing-II	ME 494	4	3.75	2.25	3.75	2	3.5	1.25	1	1	2.25	2.75	1	3	3.75	3.25	3
36	3rd	Principles & Practices of Management	HU 511	3	-	-	-	-	-	2.25	2.25	2.4	-	2.7	-	3	-	-	2.55
37	3rd	Dynamics of Machines	ME 501	2	1.7	1	1.8	1.2	0.5	1	0.7	0.5	1.1	0.5	-	0.8	1.7	1.7	0.7
38	3rd	Heat Transfer	ME 502	2	1.6	1.6	1.1	1.1	0.9	1.3	1.3	0.8	1.1	0.9	0.8	1.3	31.2	1.5	0.9
39	3rd	Design of Machine Elements	ME 503	2	1.2	1.7	1.5	1.6	0.6	1.1	0.6	0.6	0.5	0.5	0.3	1.5	1.6	1.8	0.7
40	3rd	Metrology & Measurement	ME 504	2	0.9	1.5	1.6	1.3	1.4	1	1	0.7	0.8	0.6	0.8	1.3	1.7	0.65	0.9
41	3rd	Electrical Machines	ME 505A	1	0.8	0.8	0.7	0.8	0.7	0.6	0.8	0.5	0.5	0.8	0.5	0.5	0.8	0.5	0.5
42	3rd	Seminar-I	ME 581	4	3	2.2	2	1.4	1.2	1.2	1.4	1.8	1	1.4	1.4	1.2	4	3.2	3
43	3rd	Applied Thermodynamics & Heat Transfer Lab	ME 592	4	2.4	2.6	2.8	2.6	2	2	2.4	2	2	2.4	1.6	2	2.6	2	1.8

44	3rd	Design Practice-I	ME 593	3	2.55	2.4	2.7	1.5	0.75	0.9	1.05	0.9	1.65	0.9	0.75	2.25	2.25	2.7	1.05
45	3rd	Metrology & Measurement Lab	ME 594	4	2	2.8	3.2	2.6	2.8	2	2.2	1.2	1.6	1.4	1.6	2.6	3.2	3	2
46	3rd	Electrical Machines Lab	ME 595A																
47	3rd	Production & Operations Management	HU 611	2	-	-	-	-	-	1.5	1.5	1.6	-	1.8	-	2	-	-	1.7
48	3rd	IC Engines and Gas Turbines	ME 601	1	0.4	0.4	0.4	0.3	0.5	0.25	0.2	0.2	0.25	0.3	0.2	0.5	0.4	0.5	0.4
49	3rd	Machining Principles & MachineTools	ME 602	2	1.2	1.6	1.4	1.6	0.7	1	0.7	0.7	0.5	0.5	0.5	1.6	1.7	1.7	0.9
50	3rd	Machine Design	ME 603	1	0.9	0.85	1	0.8	0.65	0.7	0.25	0.3	0.25	0.5	0.25	0.65	0.9	0.95	0.35
51	3rd	Air Conditioning & Refrigeration	ME 604A	2	1	1.1	1.3	1	1	1.4	0.9	0.9	1	0.7	1.1	1	1.6	1.6	0.8
52	3rd	Materials Handling	ME 605A	2	1.1	1.5	1.2	1.2	0.7	1	0.6	0.7	0.5	0.5	0.5	1.6	1.7	1.7	0.9
53	3rd	Machining & Machine Tools Lab	ME 691	4	3.4	2.8	3.4	2.6	2.2	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
54	3rd	IC Engine Lab	ME 692	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8	1.2
55	3rd	Design Practice-II	ME 693	3	2.63	2.06	3	1.69	1.88	0.94	0.75	0.94	1.5	0.94	0.75	2.25	3	2.63	1.13
56	3rd	Dynamics of Machines Lab	ME 694	3	2.85	2.55	2.85	1.65	1.5	1.05	0.75	0.75	1.5	1.5	0.75	1.95	2.7	3	2.25
57	3rd	Air Conditioning & Refrigeration Lab	ME 695A	4	2	2.7	3.2	2.5	2.7	2	2	1.5	1.7	1.2	1.7	2.5	3.5	3.2	2
58	4th	Power Plant Engineering	ME 701	2	1.1	0.7	0.9	0.7	1	0.5	0.5	0.4	0.5	0.6	0.5	1.1	1	1	1
59	4th	Advanced Manufacturing Technology	ME 702	2	1.2	1.7	1.4	1.6	0.7	1	0.6	0.7	0.5	0.5	0.5	1.6	1.7	1.7	0.9
60	4th	Renewable Energy Systems	ME 703B	3	1.2	1.1	0.9	1.1	1.65	0.75	0.45	0.3	0.75	0.9	0.75	1.5	1.5	1.05	1.35
61	4th	Advanced Welding Technology	ME 704B	1	0.6	0.6	0.5	0.3	0.2	0.2	0.3	0.2	0.3	0.35	0.25	0.25	0.9	0.9	0.8
62	4th	Operations Research	ME 705C	3	1.35	1.2	1.2	1.5	1.2	1.2	0.6	0.6	0.9	1.35	1.05	1.05	1.65	1.65	1.5
63	4th	Advanced Manufacturing Lab	ME 791	4	3.4	2.8	3.6	2.8	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
64	4th	Project : Part 1	ME 781	4	1.6	1.4	1.8	1.8	0.8	2	1	1	0.8	1.2	1.6	2	1.6	0.8	1.8
65	4th	Viva Voce on Vacational Training	ME 782	4	2.6	2.4	3.4	2.6	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3	3.4	1.6
66	4th	Group Discussion	ME 783	4	3	2.2	2	1.7	1.5	1.2	1.2	1	1.2	1.5	1	1	3.7	3.2	2.7
67	4th	Economics for Engineers	ME 801 (HU)	3	_	_	_	_	_	1.95	2.4	2.25		2.4		2.85			2.25
68	4th	Quality & Reliability Engineering	ME 802D	3	1.05	0.8	1.1	1.4	0.75	1.35	0.75	0.9	0.75	0.9	0.75	1.05	1.35	1.35	1.2
69	4th	Automobile Engineering	ME 803D	2	1.3	1.3	1	0.7	0.5	0.7	0.6	0.5	0.5	0.7	0.6	0.5	1.8	1.7	1.6
70	4th	Design of a Mechanical System	ME 881	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
71	4th	Project : Part II	ME 882	4	1.6	1.4	1.8	1.8	0.8	2	1	1.4	0.8	1.2	1.6	2.2	2	1.8	2.2

72	4th	Comprehensive viva	ME 883	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
		Average		2.6901	1.69	1.63	1.64	1.5	1.3	1.33	1.09	1.11	1.23	1.23	1.02	1.43	2.3	3.61	1.41

D.I.C
Mechanical Engineering Department
Hooghly Engineering & Technology College

Prof. (Dr.) Sumanta Bhattacharyya
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Hooghly Engineering & Technology College

Mechanical Engineering Department

Session: 2019-2020

Sl. No.	Year	Name of the Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH 101	4	1.7	2.5	1	1	1	0	0	0	0	0	0	1	1.7	1.7	0
2	1st	Mathematics –IB	BS-M 102	1	1	1	0.6	0.5	-	-	-	-	-	-	-	0.8	0.5	0.3	-
3	1st	Basic Electrical Engineering	ES-EE 101	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1	0.4	-
4	1st	Physics-I Laboratory	BS-PH 191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	1.3	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE 191	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3	1
6	1st	Workshop/ Manufacturing Practices	ES-ME 192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st	Chemistry-I	BS-CH 201	2	1	0.9	0.5	1.8	1.7	1.4	1.5	0.6	1.1	0.7	_	1.3	0.7	0.5	1
8	1st	Mathematics –IIB	BS-M 202	4	4	4	2.5	2.5	-	-	-	-	-	-	-	2.8	2.5	1	-
9	1st	Programming for Problem Solving	ES-CS 201	4	2.75	2.75	1.5	2.5	3	2.625	2.75	2.375	3	2.625	2	3	2.5	2.625	2.75
10	1st	English	HM-HU 201	4						1		2	2	4	2	1		3	
11	1st	Chemistry-I Laboratory	BS-CH 291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	_	2	1	1	1
12	1st	Programming for Problem Solving Lab	ES-CS 291	4	2.75	2.75	1.5	2.5	3	2.625	2.75	2.375	3	2.625	2	3	2.5	2.625	2.75
13	1st	Engineering Graphics & Design	ES-ME 291	4	1.8	1.2	2.2	1.6	1.8	0.4	0.6	0	0.4	1	0.4	2	1.6	1.4	1.2
14	1st	Language Laboratory	HM-HU 291	4						1		2	2	4	2	1		3	
15	2nd	Mathematics III	BS-M 301	1	1	1	0.5	0.3	-	-	-	-	-	-	-	0.3	0.4	0.3	-
16	2nd	Biology	BS-BIO 301	2	_	0.7	0.7	_	_	0.6	_	_	_	_	_	_	0.5	0.5	0.5
17	2nd	Basic Electronics Engineering	ES-ECE 301	1	0.7	0.5	0.25	_	0.3	_	_	_	0.3	0.4	_	0.5	0.7	_	_
18	2nd	Engineering Mechanics	ES-ME 301	1	0.75	0.65	0.3	0.45	0.25	0.6	0.25	0.25	0.25	0.25	0.25	0.5	0.9	0.9	0.3
19	2nd	Thermodynamics	PC-ME 301	1	0.55	0.85	0.8	0.8	0.35	0.6	0.35	0.3	0.35	0.3	0.25	0.7	0.8	0.85	0.4
20	2nd	Manufacturing Processes	PC-ME 302	2	1.4	1.5	1.5	1.7	0.9	1.1	0.6	0.9	0.5	0.6	0.5	1.7	1.7	1.7	0.8
21	2nd	Practice of Manufacturing Processes	PC-ME 391	4	3.6	3	3.6	2.6	2.2	2.8	2.2	2.6	2.4	1.8	1.8	2.6	3.6	3.6	1.6
22	2nd	Materials Engineering	ES-ME 401	4	3	3	2.8	3.4	1.6	2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6
23	2nd	Applied Thermodynamics	PC-ME 401	4	2	3.5	3.2	3.2	1.5	2.5	1.2	1.2	1.5	1.2	1	2.7	3.2	3.5	1.7

24	2nd	Fluid Mechanics & Fluid Machines	PC-ME 402	4	4	3	2.5	1.5	1	2.5	1.25	1	1	1	1.25	2	4	3.5	1.5
25	2nd	Strength of Materials	PC-ME 403	4	1.8	1.4	1.8	1.4	1.8	0.8	0.6	0.8	0.8	1	0.4	1.8	1.8	1.4	1.2
26	2nd	Metrology and Instrumentation	PC-ME 404	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	1.3	1.8
27	2nd	Environmental Science	MC 481	4	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1	1	1.3	1	0	1
28	2nd	Practice of Manufacturing Processes and Systems Laboratory	PC-ME 491	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2	1.8
35	2nd	Machine Drawing I	PC-ME 492	4	2	1	1	2	1.4	1	1	1	1.2	2.8	1	1.2	3	3.4	3.8
36	3rd	Principles & Practices of Management	HU 511	2	-	-	-	-	-	1.5	1.5	1.6	-	1.8	-	2	-	-	1.7
37	3rd	Dynamics of Machines	ME 501	2	1.7	1.3	1.7	1.2	1.3	1.1	1.1	0.7	1.1	1.1	0.9	1.2	1.7	1.8	1
38	3rd	Heat Transfer	ME 502	2	1.2	1.1	1.2	1.1	0.7	0.7	1	0.7	0.6	0.7	0.6	0.5	1.8	1.6	1.4
39	3rd	Design of Machine Elements	ME 503	1	0.6	0.85	0.75	0.8	0.3	0.55	0.3	0.3	0.25	0.25	0.15	0.75	0.8	0.9	0.35
40	3rd	Metrology & Measurement	ME 504	2	0.9	1.5	1.6	1.3	1.4	1	1	0.7	0.8	0.6	0.8	1.3	1.7	0.65	0.9
41	3rd	Electrical Machines	ME 505A	1	0.8	0.8	0.7	0.8	0.7	0.6	0.8	0.5	0.5	0.8	0.5	0.5	0.8	0.5	0.5
42	3rd	Seminar-I	ME 581	4	3	2.2	2	1.4	1.2	1.2	1.4	1.8	1	1.4	1.4	1.2	4	3.2	3
43	3rd	Applied Thermodynamics & Heat Transfer Lab	ME 592	4	2.8	2.6	2.2	1.4	1	1.2	1	1.8	1	1.4	1.4	1.2	4	3.4	3.2
44	3rd	Design Practice-I	ME 593	4	3.4	3.2	3.6	2	1	1.2	1.4	1.2	2.2	1.2	1	3	3	3.6	1.4
45	3rd	Metrology & Measurement Lab	ME 594	4	2	2.8	3.2	2.6	2.8	2	2.2	1.2	1.6	1.4	1.6	2.6	3.2	3	2
46	3rd	Electrical Machines Lab	ME 595A	3	3	3	3	-	2.25	1.75	2	3	3	2	0.125	3	2.25	2.25	-
47	3rd	Production & Operations Management	HU 611	4	_	_	_	_	_	3	3	3.2	_	3.6	_	4	_	_	3.4
48	3rd	IC Engines and Gas Turbines	ME 601	4	1.6	1.4	1.6	1.2	2	1	0.8	0.8	1	1.2	0.8	2	1.6	2	1.6
49	3rd	Machining Principles & MachineTools	ME 602	4	1.8	2.4	2.1	2.4	1.1	1.5	1.1	1.1	0.8	0.8	0.8	2.4	2.6	2.6	1.4
50	3rd	Machine Design	ME 603	4	3.6	3.4	4	3.2	2.6	2.8	1	1.2	1	2	1	2.6	3.6	3.8	1.4
51	3rd	Air Conditioning & Refrigeration	ME 604A	4	2	2.2	2.6	2	2	2.8	1.8	1.8	2	1.4	2.2	2	3.2	3.2	1.6
52	3rd	Materials Handling	ME 605A	4	2.2	2.2	2	1.8	1.4	1.4	1.6	1.4	1.2	1.4	1.2	1	3.6	3.4	3
53	3rd	Machining & Machine Tools Lab	ME 691	4	3.4	2.8	3.4	2.6	2.2	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
54	3rd	IC Engine Lab	ME 692	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8	1.2
55	3rd	Design Practice-II	ME 693	4	3.5	2.75	4	2.25	2.5	1.25	1	1.25	2	1.25	1	3	4	3.5	1.5
56	3rd	Dynamics of Machines Lab	ME 694	4	3.8	3.4	3.8	2.2	2	1.4	1	1	2	2	1	2.6	3.6	4	3

57	3rd	Air Conditioning & Refrigeration Lab	ME 695A	4	2	2.7	3.2	2.5	2.7	2	2	1.5	1.7	1.2	1.7	2.5	3.5	3.2	2
58	4th	Power Plant Engineering	ME 701	2	1.1	0.7	0.9	0.7	1	0.5	0.5	0.4	0.5	0.6	0.5	1.1	1	1	1
59	4th	Advanced Manufacturing Technology	ME 702	3	1.8	2.6	2.1	2.4	1.1	1.5	0.9	1.1	0.8	0.8	0.8	2.4	2.6	2.6	1.4
60	4th	Renewable Energy Systems	ME 703B	3	1.2	1.1	0.9	1.1	1.65	0.75	0.45	0.3	0.75	0.9	0.75	1.5	1.5	1.05	1.35
61	4th	Advanced Welding Technology	ME 704B	3	1.9	1.9	1.5	1	0.7	0.7	1	0.7	1	1	0.7	0.7	2.7	2.7	2.4
62	4th	Operations Research	ME 705C	1	0.45	0.4	0.4	0.5	0.4	0.4	0.2	0.2	0.3	0.45	0.35	0.35	0.55	0.55	0.5
63	4th	Advanced Manufacturing Lab	ME 791	4	3.4	2.8	3.6	2.8	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
64	4th	Project : Part 1	ME 781	4	1.6	1.4	1.8	1.8	0.8	2	1	1	0.8	1.2	1.6	2	1.6	0.8	1.8
65	4th	Viva Voce on Vacational Training	ME 782	4	2.6	2.4	3.4	2.6	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3	3.4	1.6
66	4th	Group Discussion	ME 783	4	3	2.2	2	1.7	1.5	1.2	1.2	1	1.2	1.5	1	1	3.7	3.2	2.7
67	4th	Economics for Engineers	ME 801 (HU)	4	–	–	–	–	–	2.6	3.2	3		3.2		3.8			3
68	4th	Quality & Reliability Engineering	ME 802D	4	1.4	1	1.4	1.8	1	1.8	1	1.2	1	1.2	1	1.4	1.8	1.8	1.6
69	4th	Automobile Engineering	ME 803D	4	2.6	2.6	2	1.4	1	1.4	1.2	1	1	1.4	1.2	1	3.6	3.4	3.2
70	4th	Design of a Mechanical System	ME 881	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
71	4th	Project : Part II	ME 882	4	1.6	1.4	1.8	1.8	0.8	2	1	1.4	0.8	1.2	1.6	2.2	2	1.8	2.2
72	4th	Comprehensive viva	ME 883	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
		Average		3.2727	2.06	1.99	1.94	1.78	1.53	1.51	1.29	1.29	1.35	1.38	1.16	1.74	2.34	2.2	1.69

H.O.D.
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Hooghly Engineering & Technology College

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Session: 2020-2021

Sl. No.	Year	Name of the Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH 101	4	1.7	2.5	1	1	1	0	0	0	0	0	0	1	1.7	1.7	0
2	1st	Mathematics –IB	BS-M 102	3	3	3	1.8	1.5	-	-	-	-	-	-	-	2.3	1.5	0.8	-
3	1st	Basic Electrical Engineering	ES-EE 101	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1	0.4	-
4	1st	Physics-I Laboratory	BS-PH 191	2	0.8	0.7	0	0.8	0.8	0	0	0	0.8	0.5	0.5	0.5	1	0.8	1
5	1st	Basic Electrical Engineering Laboratory	ES-EE 191	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3	1
6	1st	Workshop/ Manufacturing Practices	ES-ME 192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st	Chemistry-I	BS-CH 201	4	2	1.8	1	3.5	3.4	2.8	3	1.3	2.2	1.3	0	2.6	1.3	1	2
8	1st	Mathematics –IIB	BS-M 202	4	4	4	2.5	2.5	-	-	-	-	-	-	-	2.8	2.5	1	-
9	1st	Programming for Problem Solving	ES-CS 201	4	3	3.625	3.625	3.75	2.375	-	-	-	1	1	2	-	2	2	1
10	1st	English	HM-HU 201	3						0.75		1.5	1.5	3	1.5	0.75		2.25	
11	1st	Chemistry-I Laboratory	BS-CH 291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st	Programming for Problem Solving Lab	ES-CS 291	3	2.25	2.625	3	2.25	2.25	1.5	-	-	1.5	1.5	-	0.75	1.5	1.5	0.75
13	1st	Engineering Graphics & Design	ES-ME 291	4	1.8	1.2	2.2	1.6	1.8	0.4	0.6	0	0.4	1	0.4	2	1.6	1.4	1.2
14	1st	Language Laboratory	HM-HU 291	4						1		2	2	4	2	1		3	
15	2nd	Mathematics III	BS-M 301	3	3	3	1.5	0.8	-	-	-	-	-	-	-	0.8	1.3	0.8	-
16	2nd	Biology	BS-BIO 301	3	_	1	1.1			0.9	_	_	_	_	_	_	0.8	0.8	0.8
17	2nd	Basic Electronics Engineering	ES-ECE 301	4	2.5	2.5	1.5	1	1	1.3	2	1	1.5	1	2	1	1.5	2.3	1.5

18	2nd	Engineering Mechanics	ES-ME 301	4	3	2.6	1.2	1.8	1	2.4	1	1	1	1	1	2	3.6	3.6	1.2
19	2nd	Thermodynamics	PC-ME 301	4	2.2	3.4	3.2	3.2	1.4	2.4	1.4	1.2	1.4	1.2	1	2.8	3.2	3.4	1.6
20	2nd	Manufacturing Processes	PC-ME 302	4	2.8	3	3	3.4	1.8	2.2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6
21	2nd	Practice of Manufacturing Processes	PC-ME 391	4	3.6	3	3.6	2.6	2.2	2.8	2.2	2.6	2.4	1.8	1.8	2.6	3.6	3.6	1.6
22	2nd	Materials Engineering	ES-ME 401	4	3	3	2.8	3.4	1.6	2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6
23	2nd	Applied Thermodynamics	PC-ME 401	4	2	3.5	3.2	3.2	1.5	2.5	1.2	1.2	1.5	1.2	1	2.7	3.2	3.5	1.7
24	2nd	Fluid Mechanics & Fluid Machines	PC-ME 402	4	4	3	2.5	1.5	1	2.5	1.25	1	1	1	1.25	2	4	3.5	1.5
25	2nd	Strength of Materials	PC-ME 403	4	1.8	1.4	1.8	1.4	1.8	0.8	0.6	0.8	0.8	1	0.4	1.8	1.8	1.4	1.2
26	2nd	Metrology and Instrumentation	PC-ME 404		1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	1.3	1.8
27	2nd	Environmental Science	MC 481	4	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1	1	1.3	1	0	1
28	2nd	Practice of Manufacturing Processes and Systems Laboratory	PC-ME 491	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2	1.8
35	2nd	Machine Drawing I	PC-ME 492	4	2	1	1	2	1.4	1	1	1	1.2	2.8	1	1.2	3	3.4	3.8
36	3rd	Heat Transfer	PC-ME 501	4	2.6	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.8	3	3.2	3.6	1.4
37	3rd	Solid Mechanics	PC-ME 502	4	2.4	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.6	3	3.2	3.6	1.4
38	3rd	Kinematics & Theory of Machines	PC-ME 503	4	1.8	1.4	1.8	1.4	1.8	0.8	0.6	0.8	0.8	1	0.4	1.8	1.8	1.4	1.2
39	3rd	Humanities I	HM-HU 501	3						0.75	0	1.5	1.5	3	1.5	0.75	0	2.25	
40	3rd	Essence of Indian Knowledge Tradition	MC 501	2	1.6	1.6	1.1	1.1	0.9	1.3	1.3	0.8	1.1	0.9	0.8	1.3	31.2	1.5	0.9
41	3rd	Mechanical Engineering Laboratory I (Thermal)	PC-ME 591	4	2.2	2.4	3	2.6	3	2	2	1.4	2	1.2	1.8	2.6	3.4	2.8	1.8
42	3rd	Machine Drawing II	PC-ME 592	4	3	2.33	4	2	3.67	2.33	1	1	1	3.33	1	3	3.67	3	3
43	3rd	Project-I	PW-ME 581	4	3	2.4	2.8	2.2	2.2	2	2	2.2	2.4	2.4	2	1.8	3.2	2.8	1.8
44	3rd	Manufacturing Processes	PC-ME 601	4	2.8	3	3	3.4	1.8	2.2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6

45	3rd	Design of Machine Elements	PC-ME 602	4	2.4	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.6	3	3.2	3.6	1.4
46	3rd	IC Engine & Gas Turbines	PE-ME 601A	4	1.6	1.4	1.6	1.2	2	1	0.8	0.8	1	1.2	0.8	2	1.6	2	1.6
47	3rd	Refrigeration & Air Conditioning	PC-ME 602B	4	2	2.2	2.6	2	2	2.8	1.8	1.8	2	1.4	2.2	2	3.2	3.2	1.6
48	3rd	Humanities II (OR)	HM-HU 601	4	1.6	2	1	-	-	-	-	-	-	-	2.8	2	-	2.7	-
49	3rd	Constitution of India	MC 601	4	1.33	1.3	2.3	1.3	1.67	1.67	1.67	1	0.67	1.67	2	2	1.333	1	1
50	3rd	Mechanical Engineering Laboratory II (Design)	PC-ME 691	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8	1.2
57	3rd	Project-II	PW-ME 681	4	2.4	2.8	2.2	2.2	2	2	2.2	2.4	2.4	2	1.8	3.2	2.8	1.8	
58	4th	Power Plant Engineering	ME 701	4	2.2	1.4	1.8	1.4	2	1	1	0.8	1	1.2	1	2.2	2	2	2
59	4th	Advanced Manufacturing Technology	ME 702	4	2.4	3.4	2.8	3.2	1.4	2	1.2	1.4	1	1	1	3.2	3.4	3.4	1.8
60	4th	Renewable Energy Systems	ME 703B	4	1.6	1.4	1.2	1.4	2.2	1	0.6	0.4	1	1.2	1	2	2	1.4	1.8
61	4th	Advanced Welding Technology	ME 704B	4	2.6	2.6	2	1.4	1	1	1.4	1	1.4	1.4	1	1	3.6	3.6	3.2
62	4th	Operations Research	ME 705C	4	1.8	1.4	1.6	1.8	1.6	1.6	0.8	0.8	1.2	1.8	1.4	1.4	2.2	2.2	2
63	4th	Advanced Manufacturing Lab	ME 791	4	3.4	2.8	3.6	2.8	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
64	4th	Project : Part 1	ME 781	4	1.6	1.4	1.8	1.8	0.8	2	1	1	0.8	1.2	1.6	2	1.6	0.8	1.8
65	4th	Viva Voce on Vacational Training	ME 782	4	2.6	2.4	3.4	2.6	2.4	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3	3.4	1.6
66	4th	Group Discussion	ME 783	4	2.4	2.4	1.8	1.4	1	1.4	1.2	1	1	1.4	1.2	1	3.4	3.4	2.8
67	4th	Economics for Engineers	ME 801 (HU)	4	-	-	-	-	-	2.6	3.2	3		3.2		3.8			3
68	4th	Quality & Reliability Engineering	ME 802D	4	1.4	1	1.4	1.8	1	1.8	1	1.2	1	1.2	1	1.4	1.8	1.8	1.6
69	4th	Automobile Engineering	ME 803D	4	2.6	2.6	2	1.4	1	1.4	1.2	1	1	1.4	1.2	1	3.6	3.4	3.2
70	4th	Design of a Mechanical System	ME 881	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
71	4th	Project : Part II	ME 882	4	1.6	1.4	1.8	1.8	0.8	2	1	1.4	0.8	1.2	1.6	2.2	2	1.8	2.2
72	4th	Comprehensive viva	ME 883	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
		Average		3.77966102	2.285	2.301	2.181	2.094	1.701	1.702	1.318	1.308	1.381	1.464	1.276	1.951	3.002	2.332	1.697

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Mechanical Engineering Department

Session: 2021-2022

Sl. No.	Year	Name of the Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH 101	4	1.7	2.5	1	1	1	0	0	0	0	0	0	1	1.7	1.7	0
2	1st	Mathematics –IB	BS-M 102	2	2	2	1.2	1	-	-	-	-	-	-	-	1.5	1	0.5	0.5
3	1st	Basic Electrical Engineering	ES-EE 101	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1	0.4	-
4	1st	Physics-I Laboratory	BS-PH 191	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	1.3	1.5
5	1st	Basic Electrical Engineering Laboratory	ES-EE 191	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3	1
6	1st	Workshop/ Manufacturing Practices	ES-ME 192	4	2.6	2.6	2	1.4	1	1.2	1.6	1	1.2	1.6	1	1	4	3.4	3.4
7	1st	Chemistry-I	BS-CH 201	3	1.5	1.4	0.8	2.6	2.6	2.1	2.3	0.9	1.7	1	0	2	1	0.8	1.5
8	1st	Mathematics –IIB	BS-M 202	2	2	2	1.3	1.3	-	-	-	-	-	-	-	1.4	1.3	0.5	-
9	1st	Programming for Problem Solving	ES-CS 201	3	2.1	2.4	2	1.8	2.3	1.9	1.5	1.7	1.8	1.4	1.3	2.1	1.5	1.6	1.9
10	1st	English	HM-HU 201	4						1	0	2	2	4	2	1	0	3	
11	1st	Chemistry-I Laboratory	BS-CH 291	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1	1
12	1st	Programming for Problem Solving Lab	ES-CS 291	4	2.8	3.2	2.7	2.3	3	2.5	2	2.3	2.3	1.8	1.8	2.8	2	2.2	2.5
13	1st	Engineering Graphics & Design	ES-ME 291	4	1.8	1.2	2.2	1.6	1.8	0.4	0.6	0	0.4	1	0.4	2	1.6	1.4	1.2
14	1st	Language Laboratory	HM-HU 291	4						1		2	2	4	2	1		3	
15	2nd	Mathematics III	BS-M 301	3	3	3	1.5	0.8	-	-	-	-	-	-	-	0.8	1.3	0.8	-
16	2nd	Biology	BS-BIO 301	4	_	1.3	1.4	_	_	1.2	_	_	_	_	_	_	1	1	1
17	2nd	Basic Electronics Engineering	ES-ECE 301	4	2.5	2.5	1.5	1	1	1.3	2	1	1.5	1	2	1	1.5	2.3	1.5
18	2nd	Engineering Mechanics	ES-ME 301	4	3	2.6	1.2	1.8	1	2.4	1	1	1	1	1	2	3.6	3.6	1.2
19	2nd	Thermodynamics	PC-ME 301	4	2.2	3.4	3.2	3.2	1.4	2.4	1.4	1.2	1.4	1.2	1	2.8	3.2	3.4	1.6
20	2nd	Manufacturing Processes	PC-ME 302	4	2.8	3	3	3.4	1.8	2.2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6
21	2nd	Practice of Manufacturing Processes	PC-ME 391	4	3.6	3	3.6	2.6	2.2	2.8	2.2	2.6	2.4	1.8	1.8	2.6	3.6	3.6	1.6

22	2nd	Materials Engineering	ES-ME 401	3	2.3	2.3	2.1	2.6	1.2	1.5	0.9	1.4	0.8	0.9	0.8	2.6	2.6	2.6	1.2
23	2nd	Applied Thermodynamics	PC-ME 401	4	2	3.5	3.2	3.2	1.5	2.5	1.2	1.2	1.5	1.2	1	2.7	3.2	3.5	1.7
24	2nd	Fluid Mechanics & Fluid Machines	PC-ME 402	4	4	3	2.5	1.5	1	2.5	1.25	1	1	1	1.25	2	4	3.5	1.5
25	2nd	Strength of Materials	PC-ME 403	4	1.8	1.4	1.8	1.4	1.8	0.8	0.6	0.8	0.8	1	0.4	1.8	1.8	1.4	1.2
26	2nd	Metrology and Instrumentation	PC-ME 404	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	1.3	1.8
27	2nd	Environmental Science	MC 481	4	1.3	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.5	1	1	1.3	1	0	1
28	2nd	Practice of Manufacturing Processes and Systems Laboratory	PC-ME 491	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2	1.8
35	2nd	Machine Drawing I	PC-ME 492	3	1.5	0.75	0.75	1.5	1.05	0.75	0.75	0.75	0.9	2.1	0.75	0.9	2.25	2.55	2.85
36	3rd	Heat Transfer	PC-ME 501	4	2.6	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.8	3	3.2	3.6	1.4
37	3rd	Solid Mechanics	PC-ME 502	4	2.4	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.6	3	3.2	3.6	1.4
38	3rd	Kinematics & Theory of Machines	PC-ME 503	4	1.8	1.4	1.8	1.4	1.8	0.8	0.6	0.8	0.8	1	0.4	1.8	1.8	1.4	1.2
39	3rd	Humanities I	HM-HU 501	4						1		2	2	4	2	1		3	
40	3rd	Essence of Indian Knowledge Tradition	MC 501	4	1	1	2	1.5	1	2	1.75	1	0.75	1.75	1.75	1.75	1.25	1	1.25
41	3rd	Mechanical Engineering Laboratory I (Thermal)	PC-ME 591	4	2.2	2.4	3	2.6	3	2	2	1.4	2	1.2	1.8	2.6	3.4	2.8	1.8
42	3rd	Machine Drawing II	PC-ME 592	4	3	2.33	4	2	3.67	2.33	1	1	1	3.33	1	3	3.67	3	3
43	3rd	Project-I	PW-ME 581	4	3	2.4	2.8	2.2	2.2	2	2	2.2	2.4	2.4	2	1.8	3.2	2.8	1.8
44	3rd	Manufacturing Processes	PC-ME 601	4	2.8	3	3	3.4	1.8	2.2	1.2	1.8	1	1.2	1	3.4	3.4	3.4	1.6
45	3rd	Design of Machine Elements	PC-ME 602	4	2.4	3.4	3	3.2	1.2	2.2	1.2	1.2	1	1	0.6	3	3.2	3.6	1.4
46	3rd	IC Engine & Gas Turbines	PE-ME 601A	4	1.6	1.4	1.6	1.2	2	1	0.8	0.8	1	1.2	0.8	2	1.6	2	1.6
47	3rd	Refrigeration & Air Conditioning	PC-ME 602B	4	2	2.2	2.6	2	2	2.8	1.8	1.8	2	1.4	2.2	2	3.2	3.2	1.6
48	3rd	Humanities II (OR)	HM-HU 601	4	1.6	2	1	-	-	-	-	-	-	-	2.8	2	-	2.7	-
49	3rd	Constitution of India	MC 601	4	1.33	1.3	2.3	1.3	1.67	1.67	1.67	1	0.67	1.67	2	2	1.333	1	1
50	3rd	Mechanical Engineering Laboratory II (Design)	PC-ME 691	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8	1.2
57	3rd																		
34	4th	Advanced Manufacturing Technology	PC-ME 701	4	2.4	3.4	2.8	3.2	1.4	2	1.2	1.4	1	1	1	3.2	3.4	3.4	1.8

59	4th	Automobile Engineering	PE-ME 701A	4	3.6	2.8	2.8	2.2	1.4	1.4	1.2	1.8	1	1.2	1.2	1	3.4	3.2	2.6
60	4th	Advanced Welding Technology	PE-ME 702H	4	3.2	2.4	2.4	1.8	1.2	1.2	1	1.8	1	1.2	1.2	1	3.4	3.2	2.8
61	4th	Non-conventional Energy Sources	OE-ME 701	4	1.6	1.4	1.2	1.4	2.2	1	0.6	0.4	1	1.2	1	2	2	1.4	1.8
62	4th	Economics for Engineers	HM-HU 701	4	–	–	–	–	–	2.6	3.2	3		3.2		3.8			3
63	4th	Mechanical Engineering Laboratory III (Manufacturing)	PC-ME 791	4	3.4	2.8	3.4	2.6	2.2	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6	1.6
64	4th	Project-III	PW-ME 781	4	1.6	1.4	1.8	1.8	0.8	2	1	1	0.8	1.2	1.6	2	2	1.6	1.8
65	4th	Power Plant Engineering	PE-ME 801B	4	2.2	1.4	1.8	1.4	2	1	1	0.8	1	1.2	1	2.2	2	2	2
66	4th	Tribology	PE-ME 802E	4	2.2	3	2.8	3.2	1.2	2.2	1.2	1.2	1	1	1	3	3.2	3.6	1.8
67	4th	Industrial Pollution & Control	OE-ME 801D	4	2.4	2.6	26	2.2	1.4	1.2	1.4	1.2	1.4	1	1	1	3.6	3.6	2.8
68	4th	Internet of Things	OE-ME 802H	2	1.3	1.1	1	0.8	1	0.9	1	1.1	1.3	1.3	1.1	1	0.8	0.9	1
69	4th	Project- IV	PW-ME 881	4	1.6	1.4	1.8	1.8	0.8	2	1	1.4	0.8	1.2	1.6	2.2	2	1.8	2.2
70	4th	Comprehensive Viva-Voce	PW-ME 882	3	1.7	1.9	1.9	1.7	1.5	1.9	1.2	1.5	1.9	0.9	1.6	0.9	2.2	2.7	1.5
		Average		3.7241	2.21	2.22	2.55	2.01	1.67	1.68	1.29	1.33	1.36	1.47	1.26	1.96	2.38	2.28	1.66

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Mechanical Engineering Department

Session: 2022-2023

Sl. No.	Year	Name of the Course	Course Code	CO Attainment Level	PO Attainment												PSO Attainment		
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1st	Physics-I	BS-PH 101	0	0.4	0.6	0.3	0.3	0.3							0.3	0.4	0.4	0
2	1st	Mathematics –IB	BS-M 102	1	1	1	1	0.6	0.5	-	-	-	-	-	-	-	0.8	0.5	0.3
3	1st	Basic Electrical Engineering	ES-EE 101	1	1	1	0.8	0.4	0.3	0.3	-	0.3	-	-	0.3	-	0.4	1	0.4
4	1st	Physics-I Laboratory	BS-PH 191	3	3	1.3	1	0	1.1	1.1	0	0	0	1.1	0.8	0.8	0.8	1.5	1.3
5	1st	Basic Electrical Engineering Laboratory	ES-EE 191	4	4	4	3.7	3.3	3.7	3	1.7	1	_	3.7	3	3.3	1	4	2.3
6	1st	Workshop/ Manufacturing Practices	ES-ME 192	4	4	2.6	2.6	2	1.4	1	1.8	1.6	2.2	1.2	1	1	1	4	3.6
7	1st	Chemistry-I	BS-CH 201	1	1	0.5	0.5	0.3	0.9	0.9	0.7	0.8	0.3	0.6	0.3	0	0.7	0.3	0.3
8	1st	Mathematics –IIB	BS-M 202	1	1	1	1	0.6	0.6	-	-	-	-	-	-	-	0.7	0.6	0.3
9	1st	Programming for Problem Solving	ES-CS 201	2	2	1.375	1.375	0.75	1.25	1.5	1.313	1.375	1.188	1.5	1.313	1	1.5	1.25	1.313
10	1st	English	HM-HU 201	2	2						0.5	0	1	1	2	1	0.5	0	0.5
11	1st	Chemistry I Laboratory	BS-CH 291	4	4	2	1	1	2	2	1.8	2	1.3	1.5	1	0	2	1	1
12	1st	Programming for Problem Solving Lab	ES-CS 291	3	3	2.063	2.063	1.125	1.875	2.25	1.969	2.063	1.781	2.25	1.969	1.5	2.25	1.875	1.969
13	1st	Engineering Graphics & Design	ES-ME 291	3	3	1.35	0.9	1.65	1.2	1.35	0.3	0.45	0	0.3	0.75	0.3	1.5	1.2	1.05
14	1st	Language Laboratory	HM-HU 291	4	4						1	0	2	2	4	2	1	0	3
15	2nd	Mathematics III	BS-M 301	2	2	1.2	-	0.75	-	-	1.5	1.5	1.6	-	1.8	-	2	-	125
16	2nd	Biology	BS-BIO 301	1	1	0.4	0.6	0.3	0.3	0.3							0.3	0.4	0.4
17	2nd	Basic Electronics Engineering	ES-ECE 301	2	2	1.3	0.8	0.9	1	0.8	1.2	1.3	0.8	0.7	0.5	0.5	0.8	0.6	1
18	2nd	Engineering Mechanics	ES-ME 301	1	1	0.55	0.85	0.8	0.8	0.35	0.6	0.35	0.3	0.35	0.3	0.25	0.7	0.8	0.85
19	2nd	Thermodynamics	PC-ME 301	2	2	0.9	0.7	0.9	0.7	0.9	0.4	0.3	0.4	0.4	0.5	0.2	0.9	0.9	0.7

20	2nd	Manufacturing Processes	PC-ME 302	3	3	2.3	2.3	2.1	2.6	1.2	1.5	0.9	1.4	0.8	0.9	0.8	2.6	2.6	2.6
21	2nd	Practice of Manufacturing Processes	PC-ME 391	4	4						1		2	2	4	2	1		3
22	2nd	Materials Engineering	ES-ME 401	3	3	1.3	1	0	1.1	1.1				1.1	0.8	0.8	0.8	1.5	1.3
23	2nd	Applied Thermodynamics	PC-ME 401	3	3	1.95	1.95	2.7	1.05	0.75	1.8	0.75	0.75	2.25	2.7	0.75	1.95	2.7	2.7
24	2nd	Fluid Mechanics & Fluid Machines	PC-ME 402	4	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2
25	2nd	Strength of Materials	PC-ME 403	4	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8
26	2nd	Metrology and Instrumentation	PC-ME 404	2	2	2	1.5	2	1.3	-	-	-	-	-	-	-	0.5	1	0.7
27	2nd	Environmental Science	MC 481	1	1	1	0.8	0.5	-	-	-	-	-	-	-	-	0.7	0.7	0.5
28	2nd	Practice of Manufacturing Processes and Systems Laboratory	PC-ME 491	1	1	0.5	0.85	0.8	0.8	0.4	0.6	0.3	0.3	0.4	0.3	0.25	0.65	0.85	0.85
35	2nd	Machine Drawing I	PC-ME 492	2	2	1.8	1.6	1.8	1.1	0.9	0.7	0.7	0.5	1.2	0.5	0.5	0.8	1.7	1.7
36	3rd	Heat Transfer	PC-ME 501	2	2	1.6	1.3	1.1	1.1	0.8	0.7	0.9	0.6	0.7	0.6	0.7	0.5	1.8	1.6
37	3rd	Solid Mechanics	PC-ME 502	3	3	2.3	2.4	1.95	1.65	2.3	1.95	1.65	1.65	2.3	1.8	1.35	2.4	1.5	1.8
38	3rd	Kinematics & Theory of Machines	PC-ME 503	4	4	1.8	3	3.2	2.6	2.8	2	2	1.4	1.6	1.2	1.6	2.6	3.4	3.2
39	3rd	Humanities I	HM-HU 501	4	4	3.4	2.8	2.8	2.6	1.8	2.2	2	1.8	1.6	1.4	1.6	1.2	3.4	3
40	3rd	Essence of Indian Knowledge Tradition	MC 501	4	4	2.6	3.4	2.8	3.2	1.4	2	1.2	1.4	1	1	1	3.2	3.4	3.4
41	3rd	Mechanical Engineering Laboratory I (Thermal)	PC-ME 591	4	4	3.75	2.25	3.75	2	3.5	1.25	1	1	2.25	2.75	1	3	3.75	3.25
42	3rd	Machine Drawing II	PC-ME 592	3	3	-	-	-	-	-	2.25	2.25	2.4	-	2.7	-	3	-	-
43	3rd	Project I	PW-ME 581	2	2	1.7	1	1.8	1.2	0.5	1	0.7	0.5	1.1	0.5	-	0.8	1.7	1.7
44	3rd	Manufacturing Processes	PC-ME 601	2	2	1.6	1.6	1.1	1.1	0.9	1.3	1.3	0.8	1.1	0.9	0.8	1.3	31.2	1.5
45	3rd	Design of Machine Elements	PC-ME 602	2	2	1.2	1.7	1.5	1.6	0.6	1.1	0.6	0.6	0.5	0.5	0.3	1.5	1.6	1.8
46	3rd	IC Engine & Gas Turbines	PE-ME 601A	2	2	0.9	1.5	1.6	1.3	1.4	1	1	0.7	0.8	0.6	0.8	1.3	1.7	0.65

47	3rd	Refrigeration & Air Conditioning	PC-ME 602B	1	1	0.8	0.8	0.7	0.8	0.7	0.6	0.8	0.5	0.5	0.8	0.5	0.5	0.8	0.5
48	3rd	Humanities II (OR)	HM-HU 601	4	4	3	2.2	2	1.4	1.2	1.2	1.4	1.8	1	1.4	1.4	1.2	4	3.2
49	3rd	Constitution of India	MC 601	4	4	2.4	2.6	2.8	2.6	2	2	2.4	2	2	2.4	1.6	2	2.6	2
50	3rd	Mechanical Engineering Laboratory II (Design)	PC-ME 691	3	3	2.55	2.4	2.7	1.5	0.75	0.9	1.05	0.9	1.65	0.9	0.75	2.25	2.25	2.7
57	3rd	Project-II	PW-ME 681	4	4	2	2.8	3.2	2.6	2.8	2	2.2	1.2	1.6	1.4	1.6	2.6	3.2	3
58	4th	Advanced Manufacturing Technology	PC-ME 701																
59	4th	Automobile Engineering	PE-ME 701A	2	2	-	-	-	-	-	1.5	1.5	1.6	-	1.8	-	2	-	-
60	4th	Advanced Welding Technology	PE-ME 702H	1	1	0.4	0.4	0.4	0.3	0.5	0.25	0.2	0.2	0.25	0.3	0.2	0.5	0.4	0.5
61	4th	Non-conventional Energy Sources	OE-ME 701	2	2	1.2	1.6	1.4	1.6	0.7	1	0.7	0.7	0.5	0.5	0.5	1.6	1.7	1.7
62	4th	Economics for Engineers	HM-HU 701	1	1	0.9	0.85	1	0.8	0.65	0.7	0.25	0.3	0.25	0.5	0.25	0.65	0.9	0.95
63	4th	Mechanical Engineering Laboratory III (Manufacturing)	PC-ME 791	2	2	1	1.1	1.3	1	1	1.4	0.9	0.9	1	0.7	1.1	1	1.6	1.6
64	4th	Project-III	PW-ME 781	2	2	1.1	1.5	1.2	1.2	0.7	1	0.6	0.7	0.5	0.5	0.5	1.6	1.7	1.7
65	4th	Power Plant Engineering	PE-ME 801B	4	4	3.4	2.8	3.4	2.6	2.2	2.4	2.2	2.6	2.4	1.8	1.8	2.4	3.6	3.6
66	4th	Tribology	PE-ME 802F	4	4	1.2	1	1.2	1.4	0.8	1.4	0.8	0.8	0.8	0.8	1.2	1.4	1	0.8
67	4th	Industrial Pollution & Control	OE-ME 801D	3	3	2.63	2.06	3	1.69	1.88	0.94	0.75	0.94	1.5	0.94	0.75	2.25	3	2.63
68	4th	Internet of Things	OE-ME 802H	3	3	2.85	2.55	2.85	1.65	1.5	1.05	0.75	0.75	1.5	1.5	0.75	1.95	2.7	3
69	4th	Project- IV	PW-ME 881	4	4	2	2.7	3.2	2.5	2.7	2	2	1.5	1.7	1.2	1.7	2.5	3.5	3.2
70	4th	Comprehensive Viva-Voce	PW-ME 882	4	2.3	2.6	2.6	2.3	2	2.6	1.6	2	2.6	1.3	2.2	1.3	3	3.6	2
		Average		2.598	2.37	1.69	1.65	1.62	1.48	1.36	1.27	1.09	1.1	1.24	1.26	0.96	1.45	2.37	3.96

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