

Haldia Institute of Technology



Academic Audit Report 2021-22
of
Department of Electrical Engineering

Internal Audit Committee

Sl. No.	Name	Designation	Responsibility
1	Prof. (Dr.) Dilip Dey	Professor	Chairman
2	Dr. Pratyay Konar	Associate Professor	Convener
3	Prof. (Dr.) Palash Pal	Professor	Member
4	Dr. Santigopal Pain	Associate Professor	Member
5	Mr. Sandip Kumar Ojha	Assistant Professor	Member
6	Mr. Goutam Das	Assistant Professor	Member

ACADEMIC AUDIT CERTIFICATE

(Internal Audit)

This to certify that an Academic Audit for Electrical Engineering Department of Haldia Institute of Technology Haldia (HIT), ICARE Complex, Hatiberia, Haldia, Dist.: Purba-Medinipur, W.B., Pin: 721657 has been conducted in July 2021 to June 2022 to assess the performance of academic activity of the department.

Place: HIT, Haldia

Date: 16 September, 2022



Dr. Dilip Dey
Chairman



Dr. Pratyay Konar
Convener

ACADEMIC AUDIT REPORT 2021-22

Direct PSO Attainment for 2021-22					
Course Name	Course Code	PSO1	PSO2	PSO3	PSO4
Electrical Network Analysis	PC-EE 301	1.63	1.63	1.96	1.96
Electrical Network Analysis	PC-EE-391	2.47	2.63	2.32	2.16
Analog Electronics Circuit	PC-EE 302	2.62	2.62	2.16	2.04
Analog Electronics Circuit	PC-EE-392	2.75	2.59	2.13	2.75
Electric field theory	PC-EE 303	2.05	0.48	2.44	2.48
Mathematics -III	BS-M 301	1.37	0.95	2.44	1.65
Engineering Mechanics	ES-ME 301	0.68	0.48	2.44	0.83
Indian Constitution	MC-EE 301	1.37	0.48	0.81	2.48
Numerical Methods Lab	PC-CS 391	2.05	0.95	1.63	2.48
Electric machine-I	PC-EE 401	1.37	1.37	1.09	1.23
Electric machine-I	PC-EE-491	2.29	2.44	2.15	2.15
Digital Electronics	PC-EE 402	2.23	2.23	1.84	1.73
Digital Electronics	PC-EE-492	2.28	2.43	2.28	2.18
Electrical and Electronics Measurement	PC-EE 403	1.8	1.65	1.44	1.13
Electrical and Electronics Measurement	PC-EE-493	2.35	2.49	2.2	1.94
Thermal Power Engineering	ES-ME 401	0.68	0.48	2.44	2.48
Thermal Power Engineering	ES-ME 481	1.33	1.33	1.77	0.88
Values and Ethics in Profession	HM-EE 401	2.39	2.54	2.24	1.97
Environmental Science	MC-EE 401	1.37	0.95	2.44	1.65
Electric machine-II	PC-EE 501	1.95	2.23	2.09	2.23
Electric machine-II	PC-EE 591	2.16	2.47	2.32	2.22
Power System-I	PC-EE 502	2.11	2.35	1.81	1.81
Power System-I	PC-EE 592	2.65	2.65	2.5	2.5
Control system	PC-EE 503	1.53	1.02	0.76	0.89
Control system	PC-EE 593	1.54	1.23	0.31	1.39
Economics for Engineers	HM EE 501	1.62	1.62	1.29	2.1

Data Structure and Algorithm	OE-EE 501	2.13	2.44	2.28	2.19
Data Structure and Algorithm	OE-EE 591A	1.91	2.08	1.76	1.81
Digital Signal Processing	PE-EE 501A	1.53	2.23	1.53	1.67
Seminar	SE-EE-581	1.07	1.07	0.93	1.07
Power System - II	PC-EE 601	1.93	1.61	1.93	1.39
Power System - II	PC-EE 691	2.13	1.73	2.4	1.87
Power Electronics	PC-EE 602	1.37	1.37	1.65	1.65
Power Electronics	PC-EE 692	1.29	1.29	1.55	1.55
Micro processor& microcontroller	PC-EE 603	1.53	1.53	1.84	1.84
Micro processor& microcontroller	PC-EE 693	1.01	1.15	1.3	1.15
Digital Control System	PE-EE 601	1.29	1.87	1.4	1.4
Data Base Management System	OE-EE601A	2.05	0.48	2.44	2.48
Data Base Management System	OE-EE691A	1.18	1.18	0.89	1.04
Principal of Management	HM-EE 601	1.03	1.17	1.32	0.88
Electrical Drives	PE-EE701A	1.24	1.05	1.03	1.05
Electrical Drives	PE-EE-791A	1.41	1.41	1.57	1.1
High Voltage Engineering	PE-EE702A	2.48	1.75	1.75	0.88
Artificial Intelligence and Machine Learning	OE-EE 701B	1.53	1.53	1.83	1.83
Power Plant Engineering	OE-EE 702A	2.75	1.83	0.92	1.1
Seminar on Industrial Training	SE-EE 781	1.25	1.11	1.25	1.11
Project-1	PR-EE 783	2.17	2.17	1.49	1.49
Project -II	PR-EE881	2.21	2.21	1.52	1.82
Organizational Behaviour	HM-EE 801	1.12	0.87	0.75	0.87
HVDC Transmission	PE-EE801A	1.37	1.43	0.81	2.48
Sensors and Transducers	OE-EE 801C	1.24	1.24	1.49	1.49
Electrical System design	PE-EE881	2.3	2.3	1.58	1.56
Comprehensive Viva Voce	VI-EE882	2.14	2.45	2.29	2.45
Direct PSO Attainment		1.76	1.64	1.71	1.71

Indirect PSO Attainment for 2021-22					
ROLL NO.	NAME	PSO1	PSO2	PSO3	PSO4
10301618018	Vinit Vinay Pandey	2	3	3	2
10301618019	Vikash Kumar	3	2	2	3
10301618020	Vaishali Kumari	2	3	3	3
10301618021	Utsav Kumar	3	3	2	2
10301618022	Utsa Sur	2	2	3	3
10301618023	Ujjwal Kumar	2	3	3	2
10301618024	Tuhina Jash	2	2	3	3
10301618025	Tapas Debnath	2	3	3	2
10301618026	Surjayan Dutta	2	3	2	2
10301618027	Suraj Patel	2	2	3	2
10301618029	Suman Pradhan	3	2	2	2
10301618030	Subham Kumar Jha	2	2	3	3
10301618031	Sourav Sharma	2	3	3	2
10301618033	Sourav Dey	2	2	3	3
10301618034	Soumyadip Bhaumik	3	3	2	2
10301618035	Soumyadeep Roy	3	3	2	3
10301618036	Soumen Bera	2	2	3	2
10301618037	Somnath Mandal	2	2	3	2
10301618038	Sneha Kumari	2	3	3	2
10301618040	Shubham Kumar Sourav	2	3	3	2
10301618041	Shruti Singh	2	3	2	3
10301618042	Shivam Kumar	2	2	3	2
10301618043	Shivam Jha	3	3	2	2
10301618044	Shashvat Raj	3	3	2	3
10301618045	Shail Kumari	3	2	2	3
10301618046	Sayantana Pradhan	2	3	2	2

10301618047	Sayantan Batabyal	3	2	3	2
10301618048	Saurabh Singh	3	3	2	2
10301618049	Sarthak Suman	3	2	2	3
10301618050	Saptarshi Jana	2	2	2	2
10301618051	Sanjeet Raut	2	3	3	3
10301618052	Sameer Deewan	2	3	3	3
10301618053	Saikat Kulay	2	3	3	2
10301618054	Saikat Dhara	3	2	3	2
10301618056	Sachin Kumar	2	3	2	2
10301618057	Saba Akram	2	3	3	3
10301618058	Rupam Kumar	2	2	3	2
10301618059	Rohit Mahato	3	3	2	3
10301618062	Rishita Nandi	3	3	2	2
10301618063	Ramashish Choudhary	3	2	2	3
10301618064	Rajeev Kumar	2	3	3	3
10301618065	Rajat Das	3	3	2	2
10301618066	Rajan Kumar	2	2	3	2
10301618067	Rahul Pandey	2	3	3	3
10301618068	Puja Kumari	2	3	3	2
10301618069	Puja Kumari	3	2	3	3
10301618070	Priyam Pradhan	3	3	2	3
10301618071	Prithwi Priya Panja	2	3	3	2
10301618072	Pritam Maity	2	3	2	3
10301618073	Prince Kumar Mishra	3	2	2	3
10301618074	Prince Kumar	3	2	2	2
10301618075	Preety Kumari Sharma	2	3	3	3
10301618076	Prashant Kumar	2	3	3	3
10301618077	Prashant Kumar	2	2	2	2
10301618078	Pragya Jha	3	3	3	3

10301618079	Pragya Chandra	3	3	2	3
10301618080	Pankaj Das	2	3	3	2
10301618081	Palash Das	2	3	3	3
10301618082	Nitesh Kumar	3	3	2	2
10301618083	Nikesh Kumar	2	2	3	3
10301618084	Narayan Kumar	2	3	3	3
10301618085	Mumtaj Begum	3	2	2	2
10301618086	Mouli Biswas	3	3	3	2
10301618087	Mohan Kumar	2	3	3	3
10301618089	Mehul Raj	2	2	2	3
10301618090	Md Sarwar Alam	3	3	2	2
10301618091	Md Namood Anwer	3	2	2	3
10301618092	Md Azam Khan	3	3	2	3
10301618093	Md Arshad Khan	2	3	3	2
10301618094	Manjeet Kumar	2	2	2	3
10301618095	Manish Kumar	3	2	2	2
10301618096	Kushal Maity	2	3	3	3
10301618097	Kumod Kumar Yadav	2	2	3	2
10301618098	Kumar Pranshu Jee	3	3	2	3
10301618099	Kritika Kumari	3	3	2	2
10301618100	Krishna Prasad Yadav	2	2	3	3
10301618101	Kavya Sinha	3	3	2	3
10301618102	Kamal Bharti	3	3	2	2
10301618103	Jyoti Purkait	3	3	2	3
10301618104	Himanshu Srivastava	2	2	3	2
10301618105	Harsh Bajaj	2	3	3	3
10301618106	Gopal Nayek	3	3	2	3
10301618107	Gopal Krishna Golder	2	3	3	3
10301618108	Gaurav Kumar	3	2	2	2

10301618109	Divyanshu Shekhar	3	3	2	3
10301618110	Dipta Sarkar	3	3	2	2
10301618111	Dev Narayan Pandit	3	2	2	3
10301618112	Deepak Kumar	2	3	3	3
10301618113	Deeksha Kiran	3	3	3	2
10301618114	Bikash Halder	2	2	3	3
10301618115	Ayush Kumar	3	3	2	3
10301618116	Avinash Pranjali	3	3	2	3
10301618118	Ashwin Anand	3	3	2	2
10301618119	Ashutosh Kumar	3	3	2	3
10301618120	Ashutosh Kumar	2	3	3	3
10301618121	Ashutosh Anand	3	2	2	2
10301618122	Ashutosh	2	3	3	3
10301618123	Ashish Kumar	3	2	2	2
10301618124	Arvind Kumar	2	3	3	3
10301618125	Arun Kumar	3	3	2	3
10301618126	Arghadeep Das	3	2	3	3
10301618127	Ankit Kumar Singh	3	3	2	3
10301618128	Anjani Sharma	3	2	3	2
10301618129	Anisha Kumari	3	3	2	3
10301618131	Aniket Anand	2	3	3	2
10301618132	Anchal Singh	3	2	2	3
10301618133	Alok Kumar	2	3	3	3
10301618134	Ajeet Narayan	3	3	2	3
10301618136	Adarsh Kumar	2	3	3	3
10301618137	Adarsh	3	2	2	3
10301618138	Abhishekh Kumar	3	3	2	2
10301618139	Abhishek Kumar Singh	3	2	2	3
10301618141	Abhimanyu Kumar Singh	2	3	3	2

10301618142	Aakash Kumar Sinha	3	3	2	2
10301618143	Partho Protim Majumder	2	3	3	3
01619126	AMAN SIDDHARTH	3	3	2	2
01619127	ANIMESH MAITY	3	2	2	3
01619128	DIBASH DAS	2	3	3	2
01619129	MAHENDRA MISTRI	3	3	2	2
01619130	MITRAJEET SARKAR	3	2	2	2
01619131	MONOJ MONDAL	2	3	3	3
01619132	RAHUL SEN	3	2	2	3
01619133	SHASHANK KUMAR	2	3	3	2
01619135	SILAJIT KARMAKAR	3	2	2	2
01619136	SUBHANKAR BARMAN	3	3	2	2
01619137	UMAKANTA KHATUA	3	3	2	2
01619138	ZIAUR RAHMAN	2	2	3	3
Indirect PSO Attainment		2.51	2.64	2.48	2.53

Overall PO attainment for 2021-22												
2021-22	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct	1.87	1.89	1.75	1.69	1.72	1.79	1.62	1.65	1.45	1.46	1.53	1.61
Indirect	2.58	2.67	2.42	2.55	2.33	2.39	2.38	2.54	2.59	2.67	2.35	2.36
Overall	2.02	2.04	1.88	1.87	1.84	1.91	1.77	1.83	1.68	1.70	1.70	1.76

Overall PSO attainment for 2021-22				
2021-22	PSO1	PSO2	PSO3	PSO4
Direct	1.76	1.64	1.71	1.71
Indirect	2.51	2.64	2.48	2.53
Overall	1.91	1.84	1.87	1.87

Criterion and Suggestions				
CRITERION 1: CURRICULUM				
Sl. No.	Items	Verification Yes / No	Comments	Suggestions for improvement
1.	Steps followed in the designing of syllabus & curriculum	Yes	Followed by MAKAUT old & new syllabus and Autonomy Syllabus	Not Applicable
2.	Contents of the Curriculum	Yes	Followed by MAKAUT old & new syllabus and Autonomy Syllabus	Not Applicable
3.	Validation done	Yes	Followed by MAKAUT old & new syllabus and Autonomy Syllabus	Not Applicable
4.	Credits allotted / distribution logic	Yes	Followed by MAKAUT old & new syllabus and Autonomy Syllabus	Not Applicable
CRITERION 2: CURRICULUM TRANSACTION				
1.	Teaching methods & teaching aids	Yes	PPT, Project, seminar, Industrial training, ICT	More ICT based system should be involved
2.	E-learning modules	Yes	Lecture material uploaded on college website	More modules need to be developed
3.	Project work UG/PG	Yes	UG	Publication needed
4.	Internal assessment – components – Uniqueness	Yes	Class test, Assignment, Technical Quiz, Mini Project, Attendance	Questions should be mapped with CO as far as possible
5.	Student support – remedial coaching	Yes	Topic based discussion with prior notification from department	Frequent remedial classes needed for weak students
6.	Parents meeting – evaluation of student's progress	Yes	Result published on University and Institute website	Parent meetings should be held regular basis
7.	Feedback from students	Yes	Offline and Online feedback taken through feedback form	Satisfactory
8.	Steps taken on the	Yes	As per student	Not Applicable

	feedback		feedback remedial action have been taken	
CRITERION 3: FACULTY PROFILE				
Sl. No.	Items	Verification Yes / No	Comments	Suggestions for improvement
1.	Projects completed / ongoing	Yes	Nil	Involve in the project activity
2.	Seminars / conferences attended	Yes	07	Satisfactory
3.	Papers / articles / books published / Patent	Yes	08	Good quality journal publication is required.
4.	FDP / RC / OC / Training Program / Workshop	Yes	03	Try to organize FDP in the department
5.	Preparation of E-learning materials / Content	Yes	Available on Institutional website	Sufficient
6.	Acted as resource persons	Yes	1	Take initiative for the same
CRITERION 4: PROFILE OF STUDENTS				
1.	Sanctioned Strength	Yes	120 per year +10% Lateral	NA
2.	Actual Strength	Yes	373 nos.	Excellent
3.	Mentor Allocation	Yes	Well maintained students mentorship	Excellent
4.	Mentor allocation ratio	Yes	20:1	Excellent
5.	Students involvement in extra-curricular & Co-curricular activities	Yes	<ul style="list-style-type: none"> ● Active IEEE Student branch under IIT, KGP ● Annual sports etc. 	Outstanding
6.	Study tour / industrial visits / exhibitions / Internship / Training	Yes	Industrial visits, Exhibitions, Internship, Training	Everything is fine
7.	Achievements	Yes	<ul style="list-style-type: none"> ● Awards from various competitions ● 2 GATE Qualified 	Satisfactory

CRITERION 5: INFRASTRUCTURE IN THE DEPARTMENT				
Sl. No.	Items	Verification Yes / No	Comments	Suggestions for improvement
1.	No. of Class Rooms	Yes	5	Satisfactory
2.	No. of Laboratories	Yes	10	Satisfactory
3.	No. of computers – for Teachers	Yes	21	Satisfactory
4.	No. of computers – for students	Yes	30	Satisfactory
5.	No. of Experimental Setups	Yes	As per MAKAUT and Autonomous Syllabus	Excellent
6.	No. of Instruments	Yes	As per MAKAUT and Autonomous Syllabus	Excellent
7.	Departmental Library	Yes	No. of Title: 525 nos. No. of Books: 1337 nos.	Add Journals
8.	Internet Connectivity	Yes	52 mbps	Satisfactory
CRITERION 6: ACTIVITIES OF THE DEPARTMENT				
1.	Consultancy	Yes	Nil	Upgradation needed
2.	Collaborations	Yes	Nil	Upgradation needed
3.	Guest Lectures	Yes	Nil	Upgradation needed
4.	Conference / Seminar / Workshop conducted	Yes	Nil	Upgradation needed
5.	Interaction with Industry / Research Centres / Educational Institutions	Yes	Nil	Upgradation needed
6.	Newsletters / Magazine	Yes	Yearly Newswire and Magazine	Upgradation needed
7.	Placement	Yes	98.5%	Excellent