

Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented
- 2. Academic and Administrative Audit (AAA) and follow-up action taken
- 3. Collaborative quality initiatives with other institution(s)
- 4. Participation in NIRF and other recognized rankings
- 5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

Link to Minute of IQAC meetings hosted on the website:

https://ggnindia.dronacharya.info/MinutesOfMeetingandActionTakenReport.aspx

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Khentawas, Farrukh Nagar, Gurugram - 123506 (HR)



Quality Audit Reports/ certificate valid for the assessment period:

S. No.	Awarding agency
1	National Board of Accreditation
2	National Institutional Ranking Framework
3	ISO 10001:2018
4	ISO 21001:2018

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Khentawas, Farrukh Nagar, Gurugram - 123506 (HR)



चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड़, नई दिल्ली -110003

NATIONAL BOARD OF ACCREDITATION



4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

File No. 21-72-2019-NBA

Date: 03/01/2025

To The Principal, Dronacharya College of Engineering, Khentawas, Farrukh Nagar, Gurgaon, (Haryana)-122506

Subject: Accreditation status of programs applied by Dronacharya College of Engineering, Khentawas, Farrukh Nagar, Gurgaon (Haryana)-122506.

Sir,

This has reference to your application I.D. No. 8713-04/12/2023 seeking accreditation by National Board of Accreditation (NBA) to UG Engineering programs in Tier II applied by Dronacharya College of Engineering, Khentawas, Farrukh Nagar, Gurgaon (Haryana)-122506.

2. An Expert Team conducted onsite evaluation of the programs from 18th to 20th October, 2024. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the programs as given in the table below:

SI. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks	
(1)	(2)	(3)	(4)	(5)	(6)	
1.	Computer Science & Engineering	Tier II January 2015 Document	Accredited	Academic Years	Accreditation status granted is valid for the period indicated in	
2.	Computer Science & Information Technology		Accredited	2024-25, 2025-26 and 2026-27, i.e., upto 30/06/2027	col.5 or till the program has the approval of the Competent Authority, whichever is earlier	

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to Dronacharya College of Engineering, Khentawas, Farrukh Nagar, Gurgaon (Haryana)-122506 as a whole. As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

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Contd./

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Tel: +91 11 2436 0620-22, 2436 0654; Telefax: +91 11 4308 4903 Website: https://www.nbaind.org |Email:membersecretary@nbaind.org 5. The accreditation status of the above programs is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

6. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

7. A scanned copy each of the Report of Chairperson of the Visiting Team and Evaluators' reports in respect of the above programs can be seen by the Institute at the tab-Accreditation Reports on the Institute's eNBA dashboard.

8. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication on eNBA portal alongwith Report of the Expert Team, giving reasons for the same and by paying the requisite fee.

Yours faithfully,

(Dr. Anil Kumar Nassa) Member Secretary

Copy to:

- The Registrar, Maharshi Dayanand University, Near Delhi Bypass, Rohtak, Haryana 124001
- The Director, Department of Technical Education, Bays No. 7-12, Sector-4, Panchkula – 134112, Haryana
- 3. Accreditation File
- 4. Master Accreditation file of the State

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

National Institutional Ranking Framework Ministry of Education Government of India Welcome to Data Capturing System: ENGINEERING

Submitted Institute Data for NIRF'2025'

Institute Name: Dronacharya College of Engineering [IR-E-C-46250]

Sanctioned (Approved) Intake

Academic Year	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
UG [4 Years Program(s)]	660	660	660	660	-	-

Total Actual Student Strength (Program(s) Offered by Your Institution)

(All programs of all years)	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)	No. of students receiving full tuition fee reimbursement from the State and Central Government	No. of students receiving full tuition fee reimbursement from Institution Funds	No. of students receiving full tuition fee reimbursement from the Private Bodies	No. of students who are not receiving full tuition fee reimbursement
UG [4 Years Program(s)]	1904	454	2358	1318	1040	0	136	260	4	50	0	342

Placement & Higher Studies

UG [4 Years Program(s)]: Placement & higher studies for previous 3 years

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students admitted through Lateral entry	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median salary of placed graduates(Amount in Rs.)	No. of students selected for Higher Studies
2018-19	720	253	2019-20	30	2021-22	233	193	500000(Five Lakh)	34
2019-20	690	254	2020-21	45	2022-23	285	256	480000(Four Lakh Eighty Thousand)	29
2020-21	660	579	2021-22	10	2023-24	583	455	490000(Four Lakh ninety thousand only)	5

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Ph.D Student Details (including Integrated Ph.D)

Ph.D (Student pursuing doctoral program till 2023-24 Students admitted in the academic year 2024-25 should not be entered here.)					
		Total Students			
Full Time		0	Principal		
Part Time		^o Dronacharva College of Engineering			
	No. of Ph.D students graduate	ted (including Integrated Ph.D) Farrukh Nagar, Gurgaon.			
	2023-24	2022-23	2021-22		
Full Time	0	0	0		
Part Time	0	0	0		

Financial Resources: Utilised Amount for the Capital expenditure for previous 3 years

Academic Year	2023-24	2022-23	2021-22				
	Utilised Amount	Utilised Amount	Utilised Amount				
Annual Capital Expenditure on Academic Activities and Resources (excluding expenditure on buildings)							
Library (Books, Journals and e-Resources only)	302409 (Three Lakh Twenty Four Hundred Nine)	150686 (One Lakh Fifty thousand Six Hundred Eighty Six)	169951 (One Lakh Sixty nine Thousand nine hundred fifty one)				
New Equipment and software for Laboratories	3216431 (Thiry Two Lakh Sixteen Thousand Four Hundred Thirty One)	3364180 (Thirty Three Lakh Sixty Four Thousand One Hundred Eighty)	0 (Zero)				
Engineering Workshops	1777985 (Seventeen lakh Seventy Seven Thousand Nine Hundred Eighty Five)	2252050 (Twety Two Lakh Fifty Two Thousand Fifty)	1178554 (Eleven Lakh seventy eight thousand five hundred fifty four)				
Other expenditure on creation of Capital Assets (For setting up classrooms, seminar hall, conference hall, library, Lab, Engg workshops excluding expenditure on Land and Building)	26509820 (Twenty Six Million Five Hundred Nine Thousand Eight Hundred Twenty)	32693670 (Three Crore Twety Six Lakh Ninty Three Thousand Six Hundred Seventy)	491410 (Four Lakh ninty one thousand four hundred ten)				

Financial Resources: Utilised Amount for the Operational expenditure for previous 3 years

Academic Year	2023-24	2022-23	2021-22				
	Utilised Amount		Utilised Amount				
Annual Operational Expenditure							
Salaries (Teaching and Non Teaching staff)	77723654 (Seventy Seven Million Seven Hundred Twenty Three Thousand Six Hundred Fifty Four)	58718905 (Five Crore Eighty Seven Lakh Eighteen Thousand Nine Hundred Five)	45096970 (Four Crore fifty lakh ninty six thousand nine hundred seventy)				
Maintenance of Academic Infrastructure or consumables and other running expenditures(excluding maintenance of hostels and allied services,rent of the building, depreciation cost, etc)	106363148 (One Hundred Six Million Three Hundred Sixty Three Thousand One Hundred Forty Eight)	64456620 (Six Crore Forty Four Lakh Fifty Six Thousand Six Hundred Twenty)	49084340 (four carore ninty lakh eighty four thousand three hundred fourty)				
Seminars/Conferences/Workshops	740544 (Seven Lakh Forty Thousand Five Hundred Forty Four)	218425 (Two Lakh Eighteen Thousand Four Hundred Twenty Five)	0 (Zero)				

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Calendar year	2023	2022	2021
No. of Patents Published	6	3	0
No. of Patents Granted	4	1	0

Sponsored Research Details

Sponsored Research Details		ł	eta
Financial Year	2023-24	2022-23	2021-22
Total no. of Sponsored Projects	4	3	Principal
Total no. of Funding Agencies	3	³ Dronachary	a College of Engineering
Total Amount Received (Amount in Rupees)	930500	1859654 Farrul	h₄Magar, Gurgaon.
Amount Received in Words	Nine Lakh Thirty Rhousand Five Hundred	Eighteen lakh fifty nine thousand six hundred fifty four	four million four hundred thirty thousand five hundred twenty

Consultancy Project Details

Financial Year	2023-24	2022-23	2021-22
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Amount Received in Words	Zero	Zero	Zero
Total Amount Received (Amount in Rupees)	0	0	0
Total no. of Client Organizations	0	0	0
Total no. of Consultancy Projects	0	0	0

PCS Facilities: Facilities of physically challenged students

1. Do your institution buildings have Lifts/Ramps?	Yes, less than 40% of the buildings
2. Do your institution have provision for walking aids, including wheelchairs and transportation from one building to another for handicapped students?	Yes
3. Do your institution buildings have specially designed toilets for handicapped students?	Yes, less than 40% of the buildings

Faculty Details

Srno	Name	Age	Designation	Gender	Qualification	Experience (In Months)	Currently working with institution?	Joining Date	Leaving Date	Association type
1	Ms Anjali Yadav	25	Assistant Professor	Female	M.Tech	24	Yes	11-09-2023		Regular
2	Ms Tamanna Sehgal	43	Assistant Professor	Female	M.Tech	204	Yes	07-08-2023		Regular
3	Dr Ankit Agarwal	33	Assistant Professor	Male	Ph.D	72	Yes	01-06-2023		Regular
4	Ms Pooja Shankar Khot	34	Assistant Professor	Female	M.Tech	55	Yes	08-12-2023		Regular
5	Ms Kanika Lamba	37	Assistant Professor	Female	M.Tech	160	Yes	12-09-2023		Regular
6	Mr Kunal	31	Assistant Professor	Male	M.Sc.	48	Yes	07-08-2023		Regular
7	Dr Pankaj	34	Assistant Professor	Male	Ph.D	48	Yes	07-08-2023		Regular
8	Neha Hamendra Chauhan	42	Associate Professor	Female	M.E.	180	Yes	21-03-2022		Regular
9	Radhakrishnan Dheivanai	52	Professor	Female	Ph.D	360	Yes	21-03-2022		Regular
10	Jamilur Rahman Ansari	45	Associate Professor	Male	Ph.D	228	Yes	25-10-2021		Regular
11	Manoj Kumar	38	Associate Professor	Male	Ph.D	144	Yes	17-01-2022		Regular
12	Shipra Arora	45	Associate Professor	Female	Ph.D	288	Yes	04-04-2022		Regular
13	Dr Sakshi Gupta	38	Assistant Professor	Female	Ph.D	72	Yes	17-08-2023		Regular
14	Dr Vaishali Dixit	49	Associate Professor	Female	Ph.D	252	Yes	07-08-2023	to /	Regular
15	Gayatry Kalita	42	Associate Professor	Female	Ph.D	178	Yes	01-04-2014	free -	Regular
16	Mir Nassir Hussain	61	Professor	Male	Ph.D	390	Yes	16-07-2013		Regular
17	Khushboo Rinawa	37	Assistant Professor	Female	M.Sc.	178	Yes	16-07-2014 P	rincipal	Regular
18	Saroj Pamulapati	37	Associate Professor	Male	M.Tech	118	Yes D	ronacharya (ollege of Eng	Regular
19	Jaishree Sharma	42	Associate Professor	Female	M.A	180	Yes	23-06-Foarrukh	Nagar, Gurga	Regular

20	Rajender Singh Kochhar	63	Professor	Male	M.Tech	390	Yes	08-06-2017		Regular
21	Jagdish Prasad Shivhare	66	Professor	Male	Ph.D	478	Yes	16-11-2015		Regular
22	Karanjit Singh Chanana	60	Professor	Male	Ph.D	430	Yes	22-02-2016		Regular
23	Ashima Mehta	34	Assistant Professor	Female	Ph.D	120	Yes	13-11-2017		Regular
24	Suresh Kumar Yadav	63	Associate Professor	Male	Ph.D	394	Yes	01-06-2013		Regular
25	Urmil Sharma	63	Professor	Female	Ph.D	168	Yes	30-07-2018		Regular
26	Santram Vashist	45	Associate Professor	Male	M.Tech	132	Yes	13-08-2018		Regular
27	Vimmi Malhotra	35	Assistant Professor	Female	M.Tech	108	Yes	28-07-2018		Regular
28	Shyam Sunder Sharma	63	Professor	Male	M.Sc.	192	Yes	01-09-2020		Regular
29	Kumari Soniya	33	Associate Professor	Female	Ph.D	91	Yes	07-12-2020		Regular
30	Shivam Verma	37	Associate Professor	Male	Ph.D	84	Yes	02-07-2018		Regular
31	ANUPAM DALAL	56	Associate Professor	Female	Ph.D	238	Yes	03-03-2009		Regular
32	Ashok Kumar	47	Associate Professor	Male	M. Phil	310	Yes	16-07-2001		Regular
33	Hema	51	Assistant Professor	Female	M.Tech	274	Yes	21-07-2008		Regular
34	Bibhuti Bhushan Sahu	47	Professor	Male	Ph.D	298	Yes	14-09-2009		Regular
35	Brij Mohan Kumar Prasad	69	Professor	Male	Ph.D	526	Yes	11-08-1998		Regular
36	Dimple Saproo	51	Associate Professor	Female	M.Tech	310	Yes	04-08-2004		Regular
37	Hansraj	39	Assistant Professor	Male	M.Tech	178	Yes	19-11-2011		Regular
38	Chain Singh	42	Assistant Professor	Male	M.Tech	169	Yes	09-01-2012		Regular
39	Megha Goyal	41	Associate Professor	Female	M.Tech	226	Yes	30-01-2006		Regular
40	Jyoti	41	Professor	Female	Ph.D	190	Yes	03-08-2011		Regular
41	Narulkar Vinayak Vasudeo	41	Associate Professor	Male	M.Tech	214	Yes	18-03-2008		Regular
42	Prakash Chandra Mittal	47	Assistant Professor	Male	M.A	262	Yes	16-08-2011		Regular
43	Pooja Jain	45	Assistant Professor	Female	Ph.D	250	Yes	02-11-2006		Regular
44	Swasti Garg	43	Associate Professor	Female	Ph.D	207	Yes	25-10-2010	la	Regular
45	Yashvardhan Soni	41	Associate Professor	Male	M.Tech	226	Yes	27-07-2009		Regular
46	Rajesh Mattoo	52	Associate Professor	Male	M.Tech	274	Yes	21-01-2015	rincipal	Regular
47	Surender Dhaka	46	Associate Professor	Male	M.Tech	190	Yes	24-08-2011	College of Eng	ineering
48	Sri Krishan Dalal	59	Associate Professor	Male	PGDM	216	Yes	07-03-2009	Nagar, Gurga	Offgular
49	Himanshi	37	Assistant Professor	Female	M.Tech	166	Yes	16-07-2013	-	Regular

50	Ashu	34	Assistant Professor	Female	M.Tech	142	Yes	13-04-2015		Regular
51	Priyanka Mahani	35	Assistant Professor	Female	M.Tech	154	Yes	16-07-2014		Regular
52	Prem Chhokar	60	Assistant Professor	Male	M.Tech	301	Yes	08-06-2015		Regular
53	Pardeep	36	Assistant Professor	Male	M.Tech	138	Yes	21-07-2014		Regular
54	Sonakshi Chaudhary	34	Assistant Professor	Female	M.Tech	130	Yes	27-11-2015		Regular
55	Anu Rani	33	Assistant Professor	Female	M.Tech	106	Yes	25-07-2016		Regular
56	Ashish Khurana	37	Assistant Professor	Male	M.Tech	166	Yes	11-08-2016		Regular
57	Dipika Gupta	35	Assistant Professor	Female	M.Tech	132	Yes	17-07-2017		Regular
58	Neha Singla	35	Assistant Professor	Female	M.Tech	130	Yes	01-03-2016		Regular
59	Preeti Sharma	35	Assistant Professor	Female	M.Tech	120	Yes	23-11-2015		Regular
60	Ashima Malik	33	Assistant Professor	Female	M.Tech	104	Yes	04-12-2017		Regular
61	Ashwani Kumar	40	Assistant Professor	Male	M.Tech	144	Yes	08-06-2018		Regular
62	Dupinder	32	Assistant Professor	Female	M.Tech	84	Yes	01-08-2018		Regular
63	Kirti Sharma	30	Assistant Professor	Female	M.Tech	72	Yes	04-01-2019		Regular
64	Renu	37	Assistant Professor	Female	M.Tech	132	Yes	16-07-2018		Regular
65	Aarti Verma	40	Assistant Professor	Female	MBA	196	Yes	05-08-2010		Regular
66	Manisha Kakkar	38	Assistant Professor	Female	MBA	168	Yes	24-02-2009		Regular
67	Dr Vandana Ranjan	32	Assistant Professor	Female	Ph.D	60	Yes	16-08-2023		Regular
68	Rashim Kumar	39	Assistant Professor	Female	M.Tech	119	Yes	17-02-2014		Regular
69	Avtar Singh	54	Assistant Professor	Male	MBA	243	Yes	01-04-2004		Regular
70	Lovleen Agarwal	42	Assistant Professor	Female	M.COM	206	Yes	02-05-2011		Regular
71	Nikita Rathi	31	Assistant Professor	Female	M.Tech	111	Yes	13-04-2015		Regular
72	Shivani Gupta	42	Assistant Professor	Female	M.A	125	Yes	23-06-2015		Regular
73	Chirag Goyal	32	Assistant Professor	Male	M.Tech	96	Yes	06-08-2018		Regular
74	Joginder Singh	51	Professor	Male	Ph.D	168	Yes	08-07-2018		Regular
75	Shiva	37	Assistant Professor	Female	M.A	120	Yes	23-07-2018	-	Regular
76	Anita Chaudhary	41	Assistant Professor	Female	M.Tech	180	Yes	29-07-2019	da	Regular
77	Naveen	30	Assistant Professor	Male	M.Tech	66	Yes	03-08-2020	~	Regular
78	Sonia	35	Assistant Professor	Female	M.Tech	91	Yes	07-08-2019	Principal	Regular
79	Teena Sharma	44	Assistant Professor	Female	M.Tech	226	Yes	06-02-2007harva	College of En	gineering
80	Pankaj Kumari	31	Assistant Professor	Female	M.Tech	84	Yes	25-10-20 21 arruki	Nagar, Gurg	an Miar
81	Bhumika Chugh	26	Assistant Professor	Female	M.Tech	36	Yes	04-10-2021		Regular
82	Seema Devi	38	Assistant Professor	Female	M.Tech	142	Yes	01-04-2014		Regular

83	Nutan Mahajan	39	Assistant Professor	Female	MBA	141	Yes	01-05-2013		Regular
84	Dipti	38	Assistant Professor	Female	M.Tech	144	Yes	16-07-2014		Regular
85	Megha Saxena	35	Assistant Professor	Female	M.Tech	142	Yes	27-07-2015		Regular
86	Akancha Shekher	35	Assistant Professor	Female	M.Tech	96	Yes	29-08-2016		Regular
87	Divyanshi Sharma	29	Assistant Professor	Female	M.Tech	83	Yes	04-08-2017		Regular
88	Jyotsna	35	Assistant Professor	Female	M.Tech	106	Yes	24-02-2016		Regular
89	ASHA BALARA	51	Assistant Professor	Female	M.Tech	95	Yes	26-12-2017		Regular
90	Abhinav Panwar	31	Assistant Professor	Male	M.Tech	84	Yes	18-07-2018		Regular
91	Diksha Chaudhary	37	Assistant Professor	Female	M.Tech	120	Yes	23-07-2018		Regular
92	Karanvir Kaur	38	Assistant Professor	Female	M.E.	144	Yes	22-02-2019		Regular
93	Yudhveer Kumar Verma	35	Assistant Professor	Male	M.E.	96	Yes	10-10-2020		Regular
94	Ritika Sain	34	Assistant Professor	Female	MSc(IT)	96	Yes	03-08-2020		Regular
95	Ekta Thakur	32	Assistant Professor	Female	Ph.D	90	Yes	02-12-2020		Regular
96	Nitika Redhal	30	Assistant Professor	Female	M.Tech	60	Yes	03-08-2020		Regular
97	AMITESH KUMAR	40	Associate Professor	Male	M.Tech	238	Yes	21-08-2012		Regular
98	Ekta Jain	34	Assistant Professor	Female	M.S	145	Yes	02-11-2012		Regular
99	Kritika Chaudhry	39	Assistant Professor	Female	M.Tech	166	Yes	16-07-2012		Regular
100	Ritesh Grover	35	Assistant Professor	Male	M.Tech	154	Yes	21-08-2012		Regular
101	Saikat Bhattacharya	37	Assistant Professor	Male	M.Tech	156	Yes	15-12-2016		Regular
102	Tarun Thukral	32	Assistant Professor	Female	M.Tech	84	Yes	25-10-2021		Regular
103	Rachna Hooda	30	Assistant Professor	Female	M.Sc.	48	Yes	21-03-2022		Regular
104	Rajiv Chopra	50	Professor	Male	Ph.D	312	Yes	06-12-2024		Regular
105	Isha Malhotra	41	Dean / Principal / Director / Vice Chancellor	Female	Ph.D	240	Yes	16-06-2023		Regular
106	Vimla Yadav	53	Associate Professor	Female	Ph.D	312	Yes	19-05-2022		Regular
107	Ms Sanjyoti Jain	34	Assistant Professor	Male	M.Tech	84	Yes	07-08-2023		Regular
108	Priti	45	Assistant Professor	Female	MBA	300	Yes	11-07-2022		Regular
109	Kunal Arora	30	Assistant Professor	Male	Ph.D	72	Yes	28-07-2022 a		Regular
110	Sanchit Shekhar	27	Assistant Professor	Male	M.Tech	48	Yes	01-09-2022		Regular
111	Pooja Sharma	37	Assistant Professor	Female	M.E.	144	Yes	06-01-2020		Regular
112	Sarita	34	Assistant Professor	Female	M.Tech	120	Yes	05-02-2024	e of Engineeri	Regular
113	Deepak Kumar	37	Assistant Professor	Male	M.Tech	156	Yes Drona	08-08-2024 Naga	r Gurgaon.	Regular
114	Monika Rani	43	Assistant Professor	Female	M.Tech	108	Yes	29-09-2022	-	Regular

115	Pooja Ahlawat	38	Assistant Professor	Female	M.Tech	112	Yes	01-09-2022		Regular
116	Neha Mathur	33	Assistant Professor	Female	Ph.D	87	Yes	02-09-2024		Regular
117	Ashima Sharma	35	Assistant Professor	Female	Ph.D	96	Yes	01-08-2024		Regular
118	Priya Bhardwaj	34	Assistant Professor	Female	M.Tech	96	Yes	15-07-2024		Regular
119	Sonika Lakra	31	Assistant Professor	Female	M.Tech	71	Yes	01-02-2023		Regular
120	Sukrati Chaturvedi	29	Assistant Professor	Female	M.Sc.	20	Yes	01-04-2023		Regular
121	Renu Dua	38	Assistant Professor	Female	MBA	132	Yes	16-07-2013		Regular
122	Amritpal Kaur	37	Assistant Professor	Female	M.Tech	130	Yes	13-12-2024		Regular
123	Megha Rawat	37	Assistant Professor	Female	MHRM	84	Yes	05-02-2022		Regular
124	Santosh Kumari	36	Assistant Professor	Female	M.Tech	48	Yes	23-08-2022		Regular
125	Sakshi Ahuja	30	Assistant Professor	Female	M.Tech	54	Yes	11-07-2021		Regular
126	Dixita Barua	28	Assistant Professor	Female	M. Phil	12	Yes	12-08-2024		Regular
127	Anita Kaushik	43	Assistant Professor	Female	M.A	20	Yes	12-08-2024		Regular
128	Neha Dahiya	36	Assistant Professor	Female	M.Tech	60	Yes	15-06-2024		Regular
129	Meena Yadav	30	Assistant Professor	Female	Ph.D	12	Yes	16-07-2024		Regular
130	Nimisha Yadav	27	Assistant Professor	Female	M.A	28	Yes	05-08-2024		Regular
131	Neha Raghav	23	Assistant Professor	Female	M.Tech	12	Yes	31-07-2024		Regular
132	Jyoti Yadav	30	Assistant Professor	Female	M.Tech	27	Yes	05-08-2024		Regular
133	Parveen Kumari	38	Assistant Professor	Female	M.Tech	134	Yes	01-03-2024		Regular
134	Suman Kumari	24	Assistant Professor	Female	M.Tech	29	Yes	08-08-2024		Regular
135	Gyan Prakash Mishra	32	Associate Professor	Male	Ph.D	84	Yes	22-07-2024		Regular
136	Sandeep Bansal	40	Associate Professor	Male	Ph.D	216	Yes	21-03-2022		Regular
137	Sandeep Raj	42	Associate Professor	Male	Ph.D	192	Yes	02-09-2024		Regular
138	Ritu Pahwa	49	Associate Professor	Female	Ph.D	180	Yes	01-11-2022		Regular
139	Yogita Yashveer Raghav	40	Associate Professor	Female	Ph.D	144	Yes	22-05-2023	-	Regular
140	Shalli Goel	52	Associate Professor	Female	Ph.D	188	Yes	25-07-2011		Regular
141	Pushpinder Kumar	40	Associate Professor	Male	Ph.D	72	Yes	01-04-2023	1.	Regular
142	Akash	37	Assistant Professor	Male	Ph.D	48	Yes	14-10-2022	Bra	Regular
143	Sushmita Samanta	40	Assistant Professor	Female	M.Tech	148	Yes	16-07-2013	-	Regular
144	Sonia Arora	39	Assistant Professor	Female	M.Tech	60	Yes	27-03-2023	Principal	Regular



Academic and Administrative Audit

Academic and Administrative Audit (AAA), endures as an essential element for maintaining the standard of excellence in Higher Education. A strong administrative setup and periodical auditing serves as a foundation for a quality oriented academic system.

Academic Audit: Academic audit is understood as a scientific periodic and systematic method of reviewing the quality of the academic process in the institution. It is related to quality assurance and enhancing the quality of academic activities in HEIs.

Administrative Audit: It is considered as a process of evaluating the efficiency and effectiveness of the administrative procedure. It includes assessment of policies, strategies & functions of the various administrative departments, control of the overall administrative system etc.

Academic and Administrative Audit enhances constant judgment, quality improvement and necessary nourishment, Leading to best practices of the various academic programmes. It aims to document facts backed by empirical data which is a hallmark of excellence, and moreover a practice indispensable in academic programmes.

The audit aims to

- Present a faculty-driven process for an unending progression.
- Encourage integration across programs and disciplines.
- Subject every department to external analysis.
- Give self-evaluation based on quality standards.

The main objective of the audit is to update

- Teaching and learning
- Examination and evaluation methods.
- Research, Innovation and Extension.
- Infrastructure and Learning Resources.
- Student Support and Progression
- Unique healthy Practices

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

The audit process strictly adhered to a proforma structured by the IQAC for the evaluation based on

- i. Teaching-Learning Process
- ii. Results
- iii. Feedback system
- iv. Research
- v. Infrastructure
- vi. Department Administration, and
- vii. Other extra-curricular and co- curricular activities

Process Involved:

- Every year each departments are required to fill the details in the proforma as a part of self –appraisal
- The schedule of audit is announced in advance and audit team visit according to the schedule.

Action Taken:

- The IQAC collects report and after discussion with the team members take appropriate measures based on the observations and recommendations. The summary of the same is presented in the meeting to the members for information.
- It also takes up specific common issues as an agenda in IQAC for deliberations.

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Academic and Administrative Audit Committee for the year 2023-24 (Even Semester) consisting of the following members was constituted by the IQAC Coordinator:

- 1. Dr. Isha Malhotra (Principal)
- 2. Dr. Hansraj (Registrar)
- 3. Dr. Shipra Arora (HOD, CSIT Dept.)
- 4. Dr. Ashima Mehta (HOD, CSE Dept.)
- 5. Dr. Neha Chauhan (HOD ME Dept.)
- 6. Dr. Dimple Saproo (HOD ECE Dept.)
- 7. Dr. Monika Rani (HOD- ECS Dept.)
- 8. Dr. Rajesh Mattoo (HOD R&A Dept.)
- 9. Dr. Pooja Sharma (HOD- APS)
- 10. Mr. Lakhan Singh Rajput (Finance Officer)

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Academic and Administrative Audit Schedule: 20th & 21st June 2024

S.No.	Department	Date & Time	Internal Audit Members	Venue
1	Administration	20 June, 2024 at 10	Dr. Isha Malhotra, Mr.	Administrative Block
	Block	A.M.	Lakhan Singh Rajput	
2	Computer Science	20 June, 2024 at 11	Dr. Dimple Saproo, Dr.	CSE Lab and CSE Department
	and Engineering	A.M.	Neha Chauhan	
3	CSE (AI&ML)	20 June, 2024 at 12	Dr. Rajesh Mattoo, Dr.	CSE (AI&ML) Department and Lab
		Noon	Monika Rani	
4	Applied Science	20 June, 2024 at 2	Dr. Ashima Mehta, Dr.	Applied Sciences and Humanities
	and Humanities	P.M.	Neha Chauhan	Department and Labs
5	Computer Science	21 June, 2024 at 10	Dr. Dimple Saproo, Dr.	Computer Science and
	and Information	A.M.	Pooja Sharma	Information Technology Dept. and Labs
	Technology			
6	Electronics and	21 June, 2024 at	Dr. Ashima Mehta, Dr.	Electronics & Communication
	Communication	10:30 A.M.	Neha Chauhan	Engg. Dept. and Labs
	Engg.			
7	Electrical and	21 June, 2024 at	Dr. Pooja Sharma, Dr.	Electrical & Electronics Engg.
	Electronics Engg.	11:00 A.M.	Rajesh Mattoo	Department and Labs
8	Mechanical	21 June, 2024 at	Dr. Dimple Saproo, Dr.	Mechanical Engineering
	Engineering	11:30 A.M.	Ashima Mehta	Department and Labs
9	Information	21 June, 2024 at 12	Dr. Pooja Sharma, Dr.	Information Technology
	Technology	Noon	Neha Chauhan	Department and Labs
10	Electronics and	21 June, 2024 at	Dr. Ashima Mehta, Dr.	Electronics and Computer
	Computer	12:30 P.M.	Neha Chauhan	Engineering
	Engineering			
11	CSE – Internet of	21 June, 2024 at 1:00	Dr. Dimple Saproo, Dr.	CSE – Internet of Things and
	Things and Cyber	P.M.	Monika Rani	Cyber Security including
	Security including			Blockchain Technology
	Blockchain			
	Technology			1-1
12	Training and	21 June, 2024 at 2:00	Dr. Isha Malhotra, Dr.	Training and Placement
	Placement	P.M.	Hansraj	Department
	Department		וס	ronacharya College of Engineering
	1	1	3000	Farrukh Nagar, Gurgaon.

Overall report of Academic and Administrative Audit Committee

The Academic and Administrative Audit held on 20th and 21st June 2024, was undertaken to thoroughly assess and enhance the college's mechanisms for maintaining and advancing academic quality and institutional standards. This comprehensive review was conducted by internal audit teams, with up to three members auditing each department, who meticulously evaluated departmental practices and shared valuable observations and recommendations.

The audit highlighted several strengths and areas of excellence within the institution, earning commendation from the Principal and Registrar for the outstanding efforts demonstrated by various departments. The leadership expressed appreciation for the commitment and diligence shown by faculty and staff in maintaining academic rigor and administrative efficiency.

Heads of departments, coordinators, and faculty were encouraged to adopt the recommendations provided by the audit teams to further strengthen departmental practices. These suggestions focused on refining curriculum design, introducing innovative teaching methodologies, enhancing learning experiences, and improving the evaluation processes to align with evolving academic and industry standards.

The audit also served as a platform to foster collaboration among departments, encouraging the exchange of best practices and innovative ideas. By addressing the identified gaps and leveraging existing strengths, the audit aimed to drive continuous improvement across all facets of the institution's functioning.

Observations

- Student-centric learning approaches like flipped classrooms, peer learning, and projectbased assignments are underutilized.
- Internal assessments rely heavily on theoretical examinations, with limited emphasis on practical or application-based evaluations.
- Faculty participation in professional development and research activities is inconsistent.
- Career counseling services and soft skills training are not accessible to all students.
- Industry collaborations and alumni involvement in mentoring and placements are insufficient.

Recommendations

- Letter to University needs to be send for inclusion of certain topics in the curriculum.
- Remedial classes to be improved.
- Mentor-mentee system to be restructured.
- Incubation centre should be established.
- Research should be enhanced.
- Strengthen industry partnerships for internships, projects, and guest lectures, and actively involve alumni in placements.
- Attendance register of the students should be maintained properly and must be regularly updated.



Internal Audit Report

Name of the Department: Computer Science and Engineering

Name of Department	Computer Science and Engineering				
Auditors Name	Dr. Dimple Saproo, Dr. Neha Chauhan				
Proper formulation of Course Outcomes (Theory)	YES				
Proper CO-PO Mapping (All Theory Courses)	YES				
Updation of All Attendance register (Theory)	YES				
Additional Experiments (Lab)	NO				
Proper CO-PO Mapping (All Lab Courses)	YES				
Updation of All Attendance Register (Lab)	YES				
Proper Feedback taken for all events and visits	Partial				
Availability of proper facilities within the department	YES				
Remarks (If Any)	Faculty signature and date on time table are misssing.				

Signature of Internal Audit Members

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Internal Audit Report

Name of the Department: CSE (AI&ML)

Name of Department	CSE (AI&ML)
Auditors Name	Dr. Rajesh Mattoo, Dr. Monika Rani
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	NO
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	YES
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Knowledge of CO-PO mapping is lacking.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Applied Sciences and Humanities

Name of Department	Applied Sciences and Humanities
Auditors Name	Dr. Ashima Mehta, Dr. Neha Chauhan
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	YES
Proper CO-PO Mapping (All Lab Courses)	NO
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Lacking of CO-PO mapping

Signature of Internal Audit Members

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Internal Audit Report

Name of the Department: Computer Science and Information Technology

Name of Department	Computer Science and Information Technology
Auditors Name	Dr. Dimple Saproo, Dr. Pooja Sharma
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	NO
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Students must be encouraged to prepare projects.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Electronics & Communication Engg.

Name of Department	Electronics & Communication Engg.
Auditors Name	Dr. Ashima Mehta, Dr. Neha Chauhan
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	NO
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Faculty signature and date on time table are misssing.

Signature of Internal Audit Members

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Internal Audit Report

Name of the Department: Electrical & Electronics Engg.

Name of Department	Electrical & Electronics Engg.
Auditors Name	Dr. Pooja Sharma, Dr. Rajesh Mattoo
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	NO
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Faculty signature and date on time table are misssing.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Mechanical Engineering

Name of Department	Mechanical Engineering
Auditors Name	Dr. Dimple Saproo, Dr. Ashima Mehta
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	YES
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	More emphasis upon training of the students.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Information Technology

Name of Department	Information Technology
	Dr. Pooja Sharma, Dr. Neha Chauhan
Auditors Name	
Proper formulation of Course Outcomes (Theory)	NO
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	YES
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Lacking of CO-PO Mapping

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Electronics and Computer Engineering Department

	Electronics and Computer Engineering
Name of Department	Department
Auditors Name	Dr. Ashima Mehta, Dr. Neha Chauhan
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	NO
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Faculty signature and date on time table are misssing.

Signature of Internal Audit Members

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Internal Audit Report

Name of the Department: CSE – Internet of Things and Cyber Security including Blockchain Technology

	CSE – Internet of Things and Cyber
Name of Department	Security including Blockchain Technology
Auditors Name	Dr. Dimple Saproo, Dr. Monika Rani
Proper formulation of Course Outcomes (Theory)	YES
Proper CO-PO Mapping (All Theory Courses)	YES
Updation of All Attendance register (Theory)	YES
Additional Experiments (Lab)	NO
Proper CO-PO Mapping (All Lab Courses)	YES
Updation of All Attendance Register (Lab)	YES
Proper Feedback taken for all events and visits	Partial
Availability of proper facilities within the department	YES
Remarks (If Any)	Faculty signature and date on time table are missing.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Internal Audit Report

Name of the Department: Training and Placement Department

Name of Department	Training & Placement Department
Auditors Name	Dr. Isha Malhotra, Dr. Hansraj
Availability and frequency of training sessions	
(technical, soft skills, aptitude, etc.)	NOTE: utp a
	YES
Data Availability for placement percentage (overall and	
branch-wise)	YES
Data Availability for percentage of students undergoing	
internships (paid/unpaid)	YES
Availability of career counseling sessions for students	YES
Feedback from employers	
zan neuen en de la presentación de la construction de la presentación de la construcción de la construcción de	YES
Availability of GD rooms, interview cabins, and	
conference facilities	YES
	Industry-specific training modules should be introduced to align with recruiters'
Remarks (If Any)	expectations.

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Action Taken Report for the Year 2023-24

- Conducted faculty development workshops on effective CO-PO mapping and outcomebased education (OBE).
- Strengthened the mentorship system to support students with low attendance and academic performance.
- Placement rates showed improvement, but more core company placements were required.
- Expanded technical training sessions, soft skills workshops, and mock placement drives.
- Department of CSE and ECE require better documentation of student progression and alumni success.
- Strengthened faculty exchange programs and joint research projects with industries and academia.
- Faculty members were strictly instructed to sign and update attendance records regularly.

Neelam

IQAC Coordinator

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Certificate of Registration



THIS IS TO CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OF

Dronacharya College of Engineering

Site: Khentawas, Farukhnagar, Gurgaon(HR.)-122506

HAS BEEN FOUND TO CONFORM TO THE STANDARD **ISO 10001:2018**

(Quality Management- Customer Satisfaction- Guidelines for codes of conduct for organziations)

Approval is hereby granted for registration, provided the certification rules and conditions are observed at all times

THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE:

Provision of Education in the field of Engineering and Technology.

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.





This certificate is issued by European Compliance Assessment, Level 20 & 21, Baston Tower, 5 Place Du Champ De Mars, B-1050, Brussels, Belgium. This certificate remains the property of European Compliance Assessment and must be returned on request. It must not be altered ir defaced in any way and deliberate misuse of the certificate will result in cancellation without notification. Please check at www.ecaseuro.net for validity of the certificate.

First Date of Issue 22/05/2023

Date of Reissue 21/05/2024

Certificate Validity 3 Years

Reissue Due Date 22/05/2025

Certificate Number ECA/02/5302024 Technica Manager



EUROPEAN COMPLIANCE ASSESSMENT

Certificate of Registration



THIS IS TO CERTIFY THAT EDUCATIONAL ORGANIZATION MANAGEMENT SYSTEMS OF

Dronacharya College of Engineering

Site: Khentawas, Farukhnagar, Gurgaon(HR.)-122506

ISO 21001:2018

Approval is hereby granted for registration, provided the certification rules

First Date of Issue 22/05/2023

Date of Reissue 21/05/2024

Certificate Validity 3 Years Reissue Due Date 22/05/2025

Certificate Number ECA/02/5282024 Technical Manager



EUROPEAN COMPLIANCE ASSESSMENT

THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE:

and conditions are observed at all times

Provision of Education in the field of Engineering and Technology.

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.





This certificate is issued by European Compliance Assessment, Level 20 & 21, Baston Tower, 5 Place Du Champ De Mars, B-1050, Brussels, Belgium. This certificate remains the property of European Compliance Assessment and must be returned on request. It must not be altered ir defaced in any way and deliberate misuse of the certificate will result in cancellation without notification. Please check at www.ecaseuro.net for validity of the certificate.



Quality Initiatives taken in collaboration with Kyushu Institute of Technology

List the activities	Date of the Activity
Student Completed 3 month Internship	February – April 2024
Student Selected for MS Program	September 2024- August 2026
Research Work	July -August 2023
Student Selected for MS Program	September 2023- August 2025
	Asha

Initiatives Taken

Date of the Activity: February - April 2024

Activity: Internship

From: BMK Prasad [mailto:bmk.prasad@gnindia.dronacharya.info] Sent: Wednesday, May 01, 2024 11:10 AM To: shyam@life.kyutech.ac.jp Cc: bmk.prasad@ggnindia.dronacharya.info Subject: Expressing our Gratitude for the internship Program at Kyushu Institute of Technology, Japan

Dear Sir,

I am writing this letter to extend my sincere gratitude for the invaluable opportunity you have provided to our students through the internship program at Kyushu Institute of Technology, Japan. Your guidance and mentoring will be instrumental in their professional development and academic growth.

Faculty members and staff at university were very supportive. Their expertise and mentorship have equipped our students with the skills and confidence necessary to excel in their chosen fields. We are truly grateful for the time and effort invested in nurturing the next generation of professionals.

Furthermore, we appreciate the collaborative effort between our two institutions in facilitating seamless coordination throughout the internship process. Your responsiveness and open communication have ensured a positive experience for both our students and faculty.

Once again, thank you for your unwavering support and dedication to the success of our students.

Kind Regards Prof. (Dr.) BMK Prasad **Principal**

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Original Message
From: shyam@iffe.kyutech.ac.jp
To: bmk.prasad@genindia.dronacharya.info
Date: 00:28:0024 10:44 AM IST
Subject: Request for visit and accommodation arrangement at Kyushu Institute of Technology, Japan

Dear Prof. BMK Prasad,

Thanks for the mail and your cooperation regarding the introduction of internship students from your institute who are currently enjoying their stay at Kyutech. I am very happy to know that you are also planning to visit my laboratory and institute from April 23-28, 2024 and I would like to invite you for the same and am happy to assist you. An invitation for your visit to my laboratory is also being sent as attached mail. In this context, our guest house has also been reserved for you from April 24-28, 2024. I hope you will accept my invitation and visit our institute.

Looking forward to meeting you at Kyutech. With regards,

From: Prof. (Dr.) B.M.K. Prasad <<u>bmk.prasad@ggnindia.dronacharya info</u>> Sent: Tuesday, February 20, 2024 2:42 PM To: shyam@life.kyutech.ac.jp Cc: <u>bmk.prasad@ggnindia.dronacharya info</u> Subject: Request for visit and accommodation arrangement at Kyushu Institute of Technology, Japan

Respected Sir,

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.





Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Date of the Activity: September 2024- August 2026

Activity: MS Program

3 September 2024 at 10:15 ach.ac.jp>,
0
e School of Life Science
, please have a contact
an intention to enter LSSE
demic registration.
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ンヨン) sult your supervisor.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



Fwd: (Kyutech)The result of Exam of LSSE <A723>

Aryan Rakheja <kraryanrakheja82@gmail.com> 3 September 2024 at 20:00

Forwarded message ------From: MURAKAMI Kanae <-murakami-k@jimu.kyutech.ac.jp> Date: Tue, 3 Sep 2024 at 6:45 AM Subject: (Kyutech)The result of Exam of LSSE <-A723> To: kraryarakheja82@gmail.com <-Karayarakheja82@gmail.com> Cc: sei-nyushi@jimu.kyutech.ac.jp <sei-nyushi@jimu.kyutech.ac.jp>

Dear RAKHEJA Aryan -san, (CC : Prof. Tamukoh)

This is Admission Section of LSSE, Kyutech. I'd like to inform the result of entrance examination.

Congratulations! You have passed the entrance examination of the Graduate School of Life Science and Systems Engineering.

Since Prof. Tamukoh has been selected as your supervisor, please have a contact with him by e-mail.

So, we would like to confirm once again whether you have an intention to enter LSSE for sure. Would you send us an e-mail about it by September 12?

Please answer the following questions to register your academic registration. 1. Is your name correct as follows? First: Aryan Middle: Last: RAKHEJA

2. How do you write your name in Japanese KATAKANA? ([Example] Alphabetic name : John , KATAKANA Name : SB>) If you do not understand KATAKANA notation, please consult your supervisor. First:

Middle: Last:

Best regards, Kanae Murakami

Kyushu Institute of Technology. Graduate School of Life Science and Systems Engineering Academic and Admissions Section Kanae Murakami Mail : murakami-K@jimu.kyutech.ac.jp sei-nyushi@jimu.kyutech.ac.jp


Date of the Activity: July -August 2023

Activity: Research Work

One Month Research Program at Kyushu Institute of Technology, Japan 17th July - 16th August 2023

Ms. Sakshi Ahuja (Assistant Professor), Dronacharya College of Engineering, Gurugram completed "One Month Research Program at Kyushu Institute of Technology, Japan" from 17th July - 16th August, 2023. The theme of the research work was "Children's Behaviour Modelling based on Reinforcement Learning" and was carried under the mentorship of Dr. Keiichi HORIO (Associate Professor, Graduate School of Life Sciences and Systems Engineering, Kyushu Institute of Technology, Japan.)

The Research program was a scientific exchange between Indian and Japanese joint collaborative research that provided deep insights into Artificial Intelligence and Machine Learning. During the one month of research work, Ms. Sakshi learned about Reinforcement learning, a subfield of Artificial Intelligence that focuses upon interaction between agents and their environments. She used the method of Reinforcement Learning to make a sequence of decisions to maximize cumulative reward. She used qualitative and quantitative research approaches to complete her research work:

Qualitative research: A research method that collects descriptive data mainly using observational and interview methods and conducts linguistic and conceptual analysis. It is often done for the purpose of generating hypotheses without quantifying the data.

Quantitative research: A research method that mainly collects quantitative data using experimental and survey methods and uses statistical methods to clarify the relationships between variables.

As an outcome of the research work, **Ms. Sakshi** was able to deliver a succinct explanation of the use of reinforcement learning to understand and mould children's conduct.

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.





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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Activity: MS Program

(Kyutech)The result of Exam of LSSE <A643> Tue, 12 Sep, 2023 at 5:37 am MURAKAMI Kanae <murakami-k@jimu.kyutech.ac.jp> To: sehgal.ishita@gmail.com <sehgal.ishita@gmail.com> Cc: horio@brain.kyutech.ac.jp <horio@brain.kyutech.ac.jp>, sei-nyushi@jimu.kyutech.ac.jp <sei-nyushi@jimu.kyutech.ac.jp> Dear Sehgal Ishita (CC: Prof. Horio) This is Admission Section of LSSE, Kyutech. I'd like to inform the result of entrance examination. Congratulations! You have passed the entrance examination of the Graduate School of Life Science and Systems Engineering. Since Prof. Horio has been selected as your supervisor, please have a contact with him by e-mail < horio@brain.kyutech.ac.jp >. So, we would like to confirm once again whether you have an intention to enter LSSE for sure. Would you send us an e-mail about it by 22 Sep? Please answer the following questions to register your academic registration. 1. Is your name as it appears on your passport correct as follows? First: ISHITA Middle: Last: SEHGAL 2. How do you write your name in Japanese KATAKANA? ([Example] Alphabetic name : John , KATAKANA Name : 9 a > If you do not understand KATAKANA notation, please consult your supervisor. First Middle: Last: Best regards, Kanae Murakami Kyushu Institute of Technology, Graduate School of Life Science and Systems Engineering Academic and Admissions Section Kanae Murakami Mail: murakami-k@jimu.kyutech.ac.jp sei-Asta nyushi@jimu.kyutech.ac.jp

Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.



(Kyutech)The result of Exam of LSSE <A646> 1 message

MURAKAMI Kanae <murakami-k@jimu.kyutech.ac.jp> To: 12sharma.ravi@gmail.com <12sharma.ravi@gmail.com>

Tue, 12 Sep, 2023 at 6:10 am

Cc: horio@brain.kyutech.ac.jp <horio@brain.kyutech.ac.jp>, sei-nyushi@jimu.kyutech.ac.jp <sei-nyushi@jimu.kyutech.ac.jp>

Dear Sharma Ravi (CC: Prof. Horio)

This is Admission Section of LSSE, Kyutech. I'd like to inform the result of entrance examination.

Congratulations! You have passed the entrance examination of the Graduate School of Life Science and Systems Engineering.

Since Prof. Horio has been selected as your supervisor, please have a contact with him by e-mail < horio@brain.kyutech.ac.jp >.

So, we would like to confirm once again whether you have an intention to enter LSSE for sure. Would you send us an e-mail about it by 22 Sep?

Please answer the following questions to register your academic registration. 1. Is your name as it appears on your passport correct as follows? First: RAVI Middle: Last: SHARMA

2. How do you write your name in Japanese KATAKANA? ([Example] Alphabetic name : John , KATAKANA Name : Ø ■ >) If you do not understand KATAKANA notation, please consult your supervisor. First: Middle: Last:

Best regards, Kanae Murakami

Kyushu Institute of Technology, Graduate School of Life Science and Systems Engineering Academic and Admissions Section Kanae Murakami Mail: murakami-k@jmu.kyutech.ac.jp sei-nyushi@jimu.kyutech.ac.jp

Hela

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(Kyutech)The result of Exam of LSSE <A645> 1 message

MURAKAMI Kanae <murakami-k@jimu.kyutech.ac.jp>

To: simran25yadav@gmail.com <simran25yadav@gmail.com>

Cc: horio@brain.kyutech.ac.jp <horio@brain.kyutech.ac.jp>, sei-nyushi@jimu.kyutech.ac.jp <sei-nyushi@jimu.kyutech.ac.jp>

Dear Yadav Simran (CC: Prof. Horio)

This is Admission Section of LSSE, Kyutech. I'd like to inform the result of entrance examination.

Congratulations! You have passed the entrance examination of the Graduate School of Life Science and Systems Engineering.

Since Prof. Horio has been selected as your supervisor, please have a contact with him by e-mail < horio@brain.kyutech.ac.jp >.

So, we would like to confirm once again whether you have an intention to enter LSSE for sure. Would you send us an e-mail about it by 22 Sep?

Please answer the following questions to register your academic registration. 1. Is your name as it appears on your passport correct as follows? First SIMRAN Middle: Last: YADAV

2. How do you write your name in Japanese KATAKANA?

([Example] Alphabetic name : John , KATAKANA Name : ジョン) If you do not understand KATAKANA notation, please consult your supervisor. First: Middle: Last:

Best regards, Kanae Murakami

Kyushu Institute of Technology, Graduate School of Life Science and Systems Engineering Academic and Admissions Section Kanae Murakami Mail: murakami-k@jimu.kyutech.ac.jp

sei-nyushi@jimu.kyutech.ac.jp

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Tue, 12 Sep, 2023 at 5:55 am

Μ

(Kyutech)The result of Exam of LSSE <A644> 1 message

MURAKAMI Kanae <murakami-k@jimu.kyutech.ac.jp>

Tue, 12 Sep, 2023 at 6:05 am

To: nishant.yadav15@gmail.com <nishant.yadav15@gmail.com> Cc: horio@brain.kyutech.ac.jp <horio@brain.kyutech.ac.jp>, sei-nyushi@jimu.kyutech.ac.jp <sei-nyushi@jimu.kyutech.ac.jp>

Dear Yadav Nishant (CC: Prof. Horio)

This is Admission Section of LSSE, Kyutech. I'd like to inform the result of entrance examination.

Congratulations! You have passed the entrance examination of the Graduate School of Life Science and Systems Engineering.

Since Prof. Horio has been selected as your supervisor, please have a contact with him by e-mail < horio@brain.kyutech.ac.jp >.

So, we would like to confirm once again whether you have an intention to enter LSSE for sure. Would you send us an e-mail about it by 22 Sep?

Please answer the following questions to register your academic registration. 1. Is your name as it appears on your passport correct as follows? First: NISHANT Middle: Last: YADAV

2. How do you write your name in Japanese KATAKANA?

([Example] Alphabetic name : John , KATAKANA Name : ジョン) If you do not understand KATAKANA notation, please consult your supervisor. First: Middle: Last:

Best regards, Kanae Murakami

Kyushu Institute of Technology, Graduate School of Life Science and Systems Engineering Academic and Admissions Section Kanae Murakami Mail: murakami-k@imu.kyutech.ac.jp

sei-nyushi@jimu.kyutech.ac.jp

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Quality Initiatives in collaboration with IIT Bombay

List the activities	Date of the Activity
Two day workshop on "Introduction to Robotics"	6th - 7th October 2023
Three Day Workshop at IIT Bombay Title: Self Balancing Robot Design (SBR)	3rd - 5th August 2023
One Day Main Workshop on Arduino	22nd February, 2020
One Day Workshop on "R Programming"	09th November 2019
One Day Workshop on eSim	21st September 2019
Workshops done by Faculty members	Dates as per IIT Bombay Calendar

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Date of Activity: 6th & 7th October 2023

Activity: Two day workshop on "Introduction to Robotics"

Robotics Club, Dronacharya College of Engineering, Gurugram in collaboration with e-Yantra, IIT **Bombay** organized the two-day workshop on "Introduction to Robotics" commenced on the 6^{th} - 7^{th} October 2023.

Day 1: 6 October 2023

The event began with the traditional **Saraswathi Vandana**, invoking the blessings of the goddess of wisdom, arts, and learning. Faculty members from various institutions Dronacharya Group of Institutions, Greater Noida, IIMT College, Greater Noida, GITM, DTU, BBDITM College, KIIT College of engineering, PTU, SGT University participated in the workshop.

To initiate the program, Dr. R. Dheivanai, the e-Yantra coordinator, delivered a heartfelt and enthusiastic welcome address. In a gesture of appreciation, green plants were presented to the resource persons, Ms. Suprabha Jadhav (IIT Bombay) and Ms. Ruchi Sharma (IIT Bombay), by Prof. (Dr). Isha Malhotra, (Principal, DCE). Mrs. Neha Verma (ECE Department) introduced the resource persons.

Ms. Suprabha Jadhav provided an insightful overview of e-Yantra, IIT Bombay, emphasizing its related competitions and benefits. The workshop covered a wide range of topics, commencing with an introduction to the versatile Firebird V kit. Participants were introduced to the kit's components, including motors, wheels, sensors, and the AVR microcontroller. A comprehensive explanation of the AVR microcontroller was provided, focusing on developing embedded C programs to control a buzzer with specific ON/OFF time intervals and delays. Practical hands-on experience was offered using Firebird V kits.

The subsequent session focused on motion control using I/O ports, along with programming exercises aimed at controlling motor directions within the same kit. Participants were then introduced to pulse-width modulation (PWM) for motor speed control and learned how to make the Firebird robot, execute movements in various directions, including forward, reverse, left, right, and 'S' shapes.

Day 2: 7th October 2023

The second day of the workshop, commenced with an introduction to LCD interfacing. Participants were engaged in practical exercises to grasp the fundamentals of interfacing an LCD with the Firebird V kit and displaying information on the LCD screen.

The subsequent session delved into analog sensor interfacing using ADC. Participants gained insights into interfacing analog sensors with the Firebird robot through the Analog-to-Digital Converter (ADC). The session also provided valuable insights into reading and interpreting analog sensor data.

Participants were then guided on interfacing and utilizing white line sensors for line-following tasks. The workshop introduced robot programming for white line following, utilizing the same programming language and kits. The session was met with enthusiasm as participants experienced the joy of running the robot as a white line follower.

The next session explored interrupt programming and loop position control using position encoders, offering valuable insights into interrupt programming techniques. The workshop culminated with a session on robot programming using white line following algorithms, allowing all participants to apply their knowledge and make the Firebird robot follow a white line path.

After the technical sessions were completed, an online quiz was conducted to evaluate participants' comprehension of the workshop content. Feedback was collected to enhance future workshops and address any concerns.

In the valediction ceremony, certificates of participation were awarded to all workshop attendees, recognizing their dedication and successful completion of the workshop. Dr. R. Dheivanai, the e-Yantra coordinator, expressed gratitude in a vote of thanks, and mementos were presented to the resource persons by Prof. (Dr). Isha Malhotra.

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The two-day workshop at DCE, Gurugram was a remarkable success, providing participants with a solid foundation in robotics and microcontroller programming. It showcased the institution's commitment to innovation and collaboration and set the stage for future workshops aimed at nurturing young talents and promoting robotics education.









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Date of Activity: 3rd - 5th August 2023

Activity: Three Day Workshop at IIT Bombay Title: Self Balancing Robot Design (SBR)

Two faculty members **Prof. (Dr.) Isha Malhotra** and **Dr. R. Dheivanai** of **Dronacharya College of Engineering, Gurugram** participated in the three days e-Yantra workshop entitled "Self Balancing Robot Design (SBR)" from 3rd - 5th August, 2023.

During the first two days of the workshop faculty members got the opportunity to learn about: Introduction of Self Balancing Robot, Humanoids and SBRs, applications and advantages of SBRs or in general Humanoids, Types of SBRs and major components required, eYFI Mega Board and Motor Control, Arduino IDE for programming the board as well as controlling the Motors, Communication Protocols & Hardware Interface part was also discussed under which Serial, I2C, Interfacing Sensors, Actuators, Sample code, MPU 6050, filter techniques Interrupt Handling, Balancing Robot through PID, Basic Principle of PID, understanding effect of each of the 3 components, balancing the robot based on PID technique, LQR Control Technique, PID Control Techniques, Shortcomings of PID, State Space Method and its advantage over PID, Lagrangian Function and Non-Linear to Linear Conversion.

During the session a brief discussion about the achievements and future plans of e-Yantra was presented by **Prof. Kavi Arya**, Principal Investigator, e-Yantra, IIT Bombay.

On the last day of the workshop, session started with discussing the 'Analyzing the System' in which the major topics of discussion were Controllability, Observability, Detectability, Stability and Stabilizability. Additionally, discussion was also made on 'How to Apply the LQR' and calculating appropriate gain matrix. Apart from that; how it is possible to balance a Robot through LQR in which Calculating appropriate gain matrix, Implementation of LQR Gain Matrix and Balancing the Hardware was also explained.

At the end, a Quiz and feedback session was conducted followed by valedictory session.

Participants received the Certificates upon the successful completion of the workshop. The workshop proved to be a great learning experience to enhance the knowledge and practical skills of faculty members which they may carry forward for training purpose to the students for a better tomorrow.

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Date of Activity: 8th February 2020

Activity: One Day Main Workshop on Arduino

One day main workshop on Arduino (second workshop in the IOT series) was held at Remote centre (1299) Dronacharya College of Engineering, Gurgaon on 08 February 2020 under the aegis of Pandit Madan Mohan Malviya National Mission on Teachers and Training and funded by the Ministry of Human Resource Development, Government of India. Total 26 participants attended this workshop successfully and learnt the basics of Arduino.

Session 1: Interactive session

The inaugural address was given by the Prof. Kannan Moudgalya Principal Investigator, PMMMNMTT, IIT Bombay and Prof G.V.V. Sharma of IIT Hyderabad. The workshop was also sponsored by Electronics Sector Skills Council of India.

Addressing the participants through A-View online video, Prof. Kannan Moudgalya emphasised on the practical implementation of theoretical concepts of Engineering, Science and Technology that may help building India where dreams come true. He also explained the importance of Arduino which is an open source platform used for building electronics projects. Arduino consists of both a physical programmable circuit board and microcontroller and software, IDE (Integrated Development Environment) runs on the computer. It is used to write and upload computer code to the physical board.

Prof G.V.V. Sharma interacted to the participants through A-View and stressed on the fact there is a need to bring a major shift in aspiration and expectations of students. This requires a revamp in academics, making it more hands on and project oriented. He was confident that the Arduino based labs for microcontroller is cost effective and very well related to the present technology such as AI, IoT, machine learning etc. He also gives the example of Arduino based labs implemented at IIT Hyderabad.

Session 2: Hand on Training Session

After the interactive session, a hand on training session on Arduino board was conducted at the Hardware Lab, Dronacharya College of Engineering, Gurugram. In the session workshop was conducted using the Spoken Tutorial methodology. Participants learned Arduino by listening to the Spoken Tutorials and practicing them on 'Arduino kit' which consists of all the basic components required for hand on practice such as Arduino Uno board, LCD, Push Button, DHT11, LED, Motor, L293D IC, ESP8266, Bread Board and Necessary connecting wires.

The session is totally "Do It Yourself (DIY)" type training in which each and every interfacing of the components as well as programming on the Arduino board was to be done exactly by following the steps given in spoken tutorial videos. The spoken tutorials videos consisted of various experiments starting from the basic level to advanced level such as Electronic components and connections, Introduction to

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Arduino, Arduino components and IDE, First Arduino Program, Arduino with Tri-colour LED and Push button, Arduino with LCD display counter using Arduino, Seven Segment Display, Pulse Width Modulation, Analog Digital Converter, Wireless connectivity to Arduino.

Session 3: Q&A, Valedictory session

In the last session, the participants asked various questions regarding the problems they faced during the training assignments, from Arduino team (IIT Bombay) through A-View Interaction session online.

The workshop was beneficial to all participants as they learnt various practical approaches using Arduino.





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Date of Activity: 09th November 2019 **Activity:** One Day Workshop on "R Programming"

A one-day workshop on 'R Programming' was organized at Dronacharya College of Engineering, Gurugram, on 9th November, 2019. The workshop was organized by the Teaching Learning Centre (ICT) at IIT Bombay under the scheme of 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT), an initiative of the Ministry of Human Resource Development, Government of India. 18 faculty members from Dronacharya College of Engineering, Gurugram attended the workshop.

The workshop started with the inaugural address by Prof. Radhendushka Srivastava and Prof. Kannan Moudgalya, IIT Bombay. Prof. Srivastava explained R is a Free/Libre and Open Source Software (FLOSS). He said R is a well-organized and sophisticated package that facilitates data analysis, modelling, inferential testing, and forecasting.

Later Prof. Kannan explained R is one of the most preferred open-source languages for analytics and data science. The cross-platform compatibility of R and its capacity to handle large and complex data sets makes it an ideal tool for academicians to analyse data in their labs. R can be used for simple calculations, matrix calculations, differential equations, optimization, statistical analysis, plotting graphs, etc.

R allows you to develop custom Artificial Intelligence Apps to deploy within your own organization. It has numerous packages that are used in the field of ML.

After inaugural session, participants started with the hands-on practice on R Programming and spoken tutorial forums in the lab. Participants also completed assignments where in their knowledge and understanding was tested. The videos were self-explanatory and well designed to be understood.

Topics covered in the workshop were : Introduction to basics of R, Introduction to data frames in R, Introduction to R Studio, Introduction to R script, Working Directories in R Studio, Indexing and Slicing Data Frames, Creating Matrices using Data Frames, Operations on Matrices and Data Frames, Merging and Importing Data, Data Types and Factors, Lists and its Operations, Plotting Histograms and Pie Chart, Plotting Bar Charts and Scatter Plot, Introduction to ggplot2, Aesthetic Mapping in ggplot2, Data Manipulation using dplyr Package, More functions in the dplyr Package, Pipe Operator, Conditional Statements, Functions in R.

The workshop ended with the one-hour Question/Answer Session with the Remote Centres through A-View in which Prof. Radhendushka Srivastava and Prof. Kannan Moudgalya along with his team answered all the questions put up by the teachers of various remote centres.

Overall, it was a knowledgeable workshop as it was a completely hands-on workshop.

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Date of Activity: 21st September 2019

Activity: One Day Workshop on eSim (A First Course in the IoT Series)

A one day Workshop on eSim for faculty members was conducted by Indian Institute of Technology, Bombay on 21st September 2019 at Dronacharya College of Engineering, Gurgaon through ICT under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), funded by the Ministry of Human Resource Development, Government of India.

19 participants from DCE, Gurgaon and other colleges from NCR attended the workshop. The workshop was coordinated by Ms. Swati Sharma, Assistant Professor, Department of ECE/EEE, DCE, Gurgaon.

Meeting started with interactive session conducted by Prof. Kannan Moudgalya, Principal Investigator and Spoken Tutorial Project, IIT Bomb ay. Several queries of the participants regarding the utility and significance of eSim were answered by Prof. Kannan Moudgalya and his team. Prof. Kannan Moudgalya explained the utility of eSim under Iot Series. He told eSim is free and Open Source Software as the results is highly reliable. Also, eSim is user friendly and comes with a graphical interface.

After the interactive session, eSim training was conducted for five hours through spoken tutorials with the help from coordinator, already trained at IIT Bombay. The spoken tutorials consisted of various levels starting from the basic level, i.e. creating a Circuit Diagram, making the .net file, and obtaining the results and making Gerber files using eSim Software for a stable Multivibrator and AC Regulator. The participants also asked various questions regarding the problems they faced during the training assignments, from eSim team at IIT Bombay.

After the eSim training, an interactive session was conducted by Prof. Kannan Moudgalya, IIT Bombay with participants on their queries.

The workshop proved to be informative and helpful in giving participants a quick eSim training at basic and intermediate level.





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Certificate of Participation

This is to certify that *Neha Verma* from *Dronacharya College of Engineering, Gurugram, Haryana* has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on *October 6th - 7th, 2023* held at *Dronacharya College of Engineering, Haryana*.

Engineering a better tomorrow

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Prof. Kavi Arya Principal Investigator, e-Yantra Professor Department of Computer Science and Engineering Indian Institute of Technology Bombay

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e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).





Certificate of Participation

This is to certify that *Pooja Ahlawat* from *Dronacharya College of Engineering, Gurugram, Haryana* has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on *October 6th - 7th, 2023* held at *Dronacharya College of Engineering, Haryana*.

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Prof. Kavi Arya Principal Investigator, e-Yantra Professor Department of Computer Science and Engineering Indian Institute of Technology Bombay

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e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).





Certificate of Participation

This is to certify that **R** Dheivanai from Dronacharya College of Engineering, Gurugram, Haryana has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on October 6th - 7th, 2023 held at Dronacharya College of Engineering, Haryana.

Prof. Kavi Arya Principal Investigator, e-Yantra Professor Department of Computer Science and Engineering Indian Institute of Technology Bombay

Principal

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e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).







Certificate of Participation

This is to certify that *Rajesh Mattoo* from *Dronacharya College of Engineering*, *Gurugram*, *Haryana* has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on *October 6th - 7th*, *2023* held at *Dronacharya College of Engineering*, *Haryana*.

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Prof. Kavi Arya Principal Investigator, e-Yantra Professor Department of Computer Science and Engineering Indian Institute of Technology Bombay

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e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).





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Quality Initiatives in collaboration with Virtual Lab

List the activities	Date of the Activity
One Day Workshop on "Virtual Labs"	8 November 2023
Workshop on "Virtual Labs"	4 April 2023
Workshop on "Virtual Lab"	5 May 2023
Workshop on "Virtual Lab"	21 November 2022
Workshop on Virtual Lab	28 October 2021
Workshop on Virtual Lab	11 January 2021
Workshop on Virtual Lab	11th October 2019

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Activities

Date of the Activity: 8 November 2023 **Activity:** One Day Workshop on "Virtual Labs"

From: Tanmay Tarun Das [mailto:ttdas.iitd@gmail.com] Sent: Wednesday, October 18, 2023 10:49 AM To: Virtuallab.coordinator@ggnindia.dronacharya.info Cc: Prateek Sharma <prateek94.iitd@gmail.com> Subject: Re: Request to conduct a workshop

Dear Madam,

The Virtual Labs team confirms the date of the workshop. Please send me the schedule of it.

Yours sincerely,

Tanmay Tarun Das Outreach In-charge Virtual Labs, IIT Delhi

Room no.206/2A Wireless Lab, Bharti School Of Telecom, IIT Delhi, Hauz Khas, New Delhi-110016

Tel- 9891646324(M) / 011-26582050(O) Email: tanmay.tarun.das.ee_irdstaff@ee.iitd.ac.in Web: www.vlab.co.in

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Dronacharya College of Engineering, Gurgaon as the Nodal Center of Virtual Labs for IIT Delhi organized one-day workshop on "Virtual Labs" in collaboration with IIT Delhi on 8th November, 2023. Virtual Labs is an initiative of Ministry of Human Resource Development (MHRD), Govt of India (GOI) under the National mission on Education through ICT (NMEICT) aimed to enhance the practical knowledge of students in the field of Artificial Intelligence and Machine Learning (AIML).

44 students from AIML branch and 09 faculty members actively participated in the workshop. Mr. Chandan Kumar (Sr. Field Engineer), Mr. Gautam Sharma (Field Engineer) and Mr. Shani Kumar (Field Engineer) were the eminent experts from IIT Delhi.

Mr. Chandan Kumar initiated the workshop with a comprehensive introduction to Virtual Labs, emphasizing its features and benefits. He highlighted the primary objective of Virtual Labs is to provide remote access to laboratories in various scientific and engineering disciplines. The approach enables sharing of expensive equipment and resources, overcoming limitations posed by cost and geographical distances. The session incorporated audio and video streaming, simulating actual lab experiments, and remotely triggering experiments with real-time results.

The expert also provided insights into the Virtual Lab portal, its key features, and access to labs developed by various participating institutes. The interactive session was well-received, and students understood the concepts of labs very well.

The workshop proved to be highly beneficial for all the attendees. It provided valuable exposure, allowing students to actively engage in experiments and solidify their understanding of Virtual Labs using the Virtual lab portal.





Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Date of the Activity: 8th November 2023

Activity: One Day Workshop on "Virtual Labs"

Dronacharya College of Engineering, Gurgaon as the Nodal Center of Virtual Labs for IIT Delhi organized one-day workshop on "Virtual Labs" in collaboration with IIT Delhi on 8th November, 2023. Virtual Labs is an initiative of Ministry of Human Resource Development (MHRD), Govt of India (GOI) under the National mission on Education through ICT (NMEICT) aimed to enhance the practical knowledge of students in the field of Artificial Intelligence and Machine Learning (AIML).

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The expert also provided insights into the Virtual Lab portal, its key features, and access to labs developed by various participating institutes. The interactive session was well-received, and students understood the concepts of labs very well.

Afterwards, students were given the opportunity for hands-on practice on the Virtual Lab Portal. Divided into two computer labs, they conducted experiments in areas such as Artificial Neural Network, Data Structure, Python, and Computer Organization and Architecture. The doubts faced by the students during the practical session were very well explained by the expert team from IIT Delhi. Students successfully performed at least two experiments in each lab.

The workshop proved to be highly beneficial for all the attendees. It provided valuable exposure, allowing students to actively engage in experiments and solidify their understanding of Virtual Labs using the Virtual lab portal.

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Date of the Activity: 4th April 2024 Activity: Workshop on "Virtual Labs"

Dronacharya College of Engineering, Gurgaon, in collaboration with **IIT Delhi**, organized a one-day workshop on "**Virtual Labs**" on April 4, 2024. This workshop was conducted under **the Virtual Labs** an initiative of the **Ministry of Education (MoE)**, **Government of India**, as part of the **National Mission on Education through Information and Communication Technology (NMEICT)**. The workshop aimed to introduce students and faculty to the concept and utility of Virtual Labs in various disciplines of Science and Engineering.

A total of **40 students** from Electronics & Computer Science Engineering (ECS), Mechanical Engineering (ME), and Robotics & Automation Engineering (RA) branch, along with **5 faculty** members, actively participated in the workshop.

Three experts from IIT Delhi, Mr. Chandan Kumar (Senior Field Engineer), Mr. Shivam Yadav (Field Engineer), and Mr. Shani Kumar (Field Engineer), conducted the sessions on Virtual Labs.

Mr. Chandan Kumar commenced the workshop with a comprehensive introduction to Virtual Labs. He elucidated the features and benefits of Virtual Labs, emphasizing their role in enhancing students' knowledge by providing remote access to laboratory resources.

Hands-on Practice: Participants were given the opportunity to engage in hands-on practice on the Virtual Lab Portal. They were divided into groups and conducted experiments in various labs tailored to their respective disciplines, such as Problem Solving Lab, Image Processing Lab, Python Programming Lab, Data Structure Lab, Basic Electronics Lab, Digital Lab for ECS students, and labs Fab Lab, Dynamics of Machine Lab, Vibration and Acoustics lab ,3D printing virtual Simulation Metal Forming Virtual Simulation Lab pertinent to ME and RA students.

Open House Discussion: Following the practical sessions, an open house discussion took place between the faculty members of Dronacharya College of Engineering and the experts from IIT Delhi. This session provided a platform for exchanging ideas and addressing queries related to Virtual Labs.

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The workshop proved to be highly beneficial, particularly for undergraduate students across all branches. It offered them valuable exposure to conducting experiments and solidifying their understanding of **Virtual Labs using the Virtual Lab portal**. The interactive sessions and practical exercises were well-received by the participants, contributing to a successful and enriching learning experience.

Overall, the workshop served its purpose of familiarizing students and faculty with Virtual Labs and fostering a collaborative learning environment. Such initiatives play a crucial role in advancing education through technology and promoting access to quality resources in the field of Science and Engineering.

Show casing a memorable and enriching learning experience for all participants.



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Date of the Activity: 5th May 2023

Activity: One Day Workshop on "Virtual Labs"

One Day Workshop on "Virtual Labs" 5th May 2023

Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram being Nodal Center of Virtual Labs of IIT Delhi, conducted one-day workshop on "Virtual Labs" on 5th May, 2023 in association with IIT Delhi. 56 students of ECE/EEE/ECS /ME Department and 07 faculty members participated in the workshop. Three experts from IIT Delhi namely: Mr. Prateek Sharma (Sr. Field Engineer), Mr. Chandan Kumar (Field Engineer), Mr. Vikas Pandey (Field Engineer) conducted the session on Virtual Labs.

Virtual Labs is an initiative of Ministry of Human Resource Development (MHRD), Govt of India (GOI) under the National mission on Education through ICT (NMEICT).

The workshop started with the brief introduction of Virtual Labs by **Mr. Prateek Sharma** (IIT Delhi Expert). He introduced the features and utility of Virtual labs. He briefed the basic purpose of Virtual lab is to enhance the knowledge of students by providing the remote-access to Labs in various disciplines of Science and Engineering. These labs also share the latest equipments and resources, which are otherwise available to limited number of users due to constraints of cost and geographical distances. Virtual Labs would be made more effective and realistic by providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment. Remotely triggering an experiment in an actual lab and providing result of the experiment to the student through the computer interface would help the students in carrying out the actual lab experiment.

Internet-based experimentation further permits use of resources – knowledge, software, and data available on the web, apart from encouraging experiments being simultaneously performed by multiple users separated geographically.

Mr. Chandan Kumar (IIT Delhi Expert), stated today most equipment have a comparise interface for Dronacharya College of Engineering control and data storage. So, it is possible to design good experiments for this equipment which would enhance the learning of students. He also explained the VLab portal, its important features and accesses of various labs developed by different participating institutes. These Virtual Labs cater to students at the undergraduate level, post graduate level as well as to research scholars. The session was very interactive and students enjoyed while learning concepts of the labs. Students were allowed to do hands-on practice on the Virtual Lab Portal. The students were divided into 2 computer labs, where they performed experiments in Electric Machine Lab, Problem Solving Lab, Image processing Lab, Python programing Lab, Basic Electronics Lab, Digital Lab for ECS/EE/ECS students and Metal Forming Virtual Simulation Lab and Mechanical Virtual Lab for Mechanical Students. The students were able to perform at least two experiments on their own in each lab with the guidance of DCE faculty and IIT Delhi experts. In the end, there was an open house discussion between Virtual lab coordinators of all the departments and IIT Delhi Experts. The queries regarding the development of Virtual lab experiments were clarified by the IIT Delhi experts. The workshop gave the exposure to students to perform the experiments and clear their basic concepts of Virtual labs utilizing the Vlab portal.









Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Date of the Activity: 21st November 2022 Activity: One Day Workshop on "Virtual Labs"

Dronacharya College of Engineering, Gurugram being Nodal Center of Virtual Labs of IIT Delhi, conducted one-day workshop on "**Virtual Labs**" on **21**st **November, 2022** in association with IIT Delhi. **56 students** of ECE/EEE/ECS /ME Department and 07 faculty members participated in the workshop. Three experts from IIT Delhi namely: **Mr. Prateek Sharma** (Sr. Field Engineer), **Mr. Chandan Kumar** (Field Engineer), **Mr. Vikas Pandey** (Field Engineer) conducted the session on Virtual Labs.

Virtual Labs is an initiative of Ministry of Human Resource Development (**MHRD**), Govt of India (**GOI**) under the National mission on Education through ICT (**NMEICT**).

The workshop started with the brief introduction of Virtual Labs by **Mr. Prateek Sharma** (IIT Delhi Expert). He introduced the features and utility of Virtual labs. He briefed the basic purpose of Virtual lab is to enhance the knowledge of students by providing the remote-access to Labs in various disciplines of Science and Engineering. These labs also share the latest equipments and resources, which are otherwise available to limited number of users due to constraints of cost and geographical distances. Virtual Labs would be made more effective and realistic by providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment. Remotely triggering an experiment in an actual lab and providing result of the experiment to the student through the computer interface would help the students in carrying out the actual lab experiment. Internet-based experimentation further permits use of resources – knowledge, software, and data available on the web, apart from encouraging experiments being simultaneously performed by multiple users separated geographically.

Mr. Chandan Kumar (IIT Delhi Expert), stated today most equipment have a computer interface for control and data storage. So, it is possible to design good experiments around some of this equipment which would enhance the learning of students. He also explained the **VLab** portal, its important features and accesses of various labs developed by different participating institutes. These Virtual Labs cater to students at the undergraduate level, post graduate level as well as to research scholars. The session was very interactive and students enjoyed while learning concepts of the labs.

Hands on Practice in Labs

Students were allowed to do hands-on practice on the Virtual Lab Portal. The students were divided into 2 computer labs, where they performed experiments in Electric Machine Lab, Problem Solving Lab, Image processing Lab, Python programing Lab, Basic Electronics Lab, Digital Lab for ECS/EE/ECS students and Metal Forming Virtual Simulation Lab and Mechanical Virtual Lab for Mechanical Students. The students were able to perform at least two experiments on their own in each lab with the guidance of DCE faculty and IIT Delhi experts.

Open House Discussion between DCE faculty and IIT Delhi Experts

In the end, there was an open house discussion between Virtual lab coordinators of all the departments and IIT Delhi Experts. The queries regarding the development of Virtual lab experiments were clarified by the IIT Delhi experts.

The workshop gave the exposure to students to perform the experiments and clear their basic concepts of Virtual labs utilizing the Vlab portal.





Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

Date of the Activity: 28th October 2021

Activity: Workshop on Virtual Labs

Dronacharya College of Engineering, Gurugram, as a Nodal Center for Virtual Labs of IIT Delhi, organized a one-day workshop on "Virtual Labs" on 28th October, 2021, in collaboration with IIT Delhi. A total of 56 students from the ECE, EEE, ECS, and ME departments, along with 07 faculty members, participated. The session was conducted by Mr. Prateek Sharma (Senior Field Engineer), Mr. Chandan Kumar (Field Engineer), and Mr. Vikas Pandey (Field Engineer) from IIT Delhi.

The workshop began with an introduction to Virtual Labs, an initiative under the National Mission on Education through ICT (NMEICT), MHRD, and Government of India. Mr. Prateek Sharma explained how Virtual Labs provide remote access to experiments, allowing students to explore concepts in Science and Engineering without physical constraints. The platform also integrates audio-video streaming and real-time experiment simulation to enhance learning.

Mr. Chandan Kumar discussed the V Lab portal, showcasing its features and the range of labs developed by various institutes. He emphasized that Virtual Labs benefit undergraduate, postgraduate, and research students, offering a comprehensive digital learning experience.

During the hands-on session, students conducted experiments in various labs, including Electric Machine Lab, Problem Solving Lab, Image Processing Lab, Python Programming Lab, Basic Electronics Lab, and Digital Lab for ECE/EEE/ECS students, while Mechanical students worked on Metal Forming and Mechanical Virtual Labs.

The session concluded with an open house discussion where queries on Virtual Lab development were addressed. The workshop provided valuable exposure to students, enabling them to explore interactive and technology-driven learning experiences.

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Date of the Activity: 11th January 2021

Activity: Workshop on Virtual Labs

Dronacharya College of Engineering, Gurugram, a Nodal Center for Virtual Labs under IIT Delhi, hosted a one-day workshop on "Virtual Labs" on 11th January 2021, in collaboration with IIT Delhi. The event witnessed participation from 65 students across ECE, EEE, ECS, and ME departments, along with 07 faculty members.

The workshop was conducted by **Mr. Prateek Sharma** (Senior Field Engineer), **Mr. Chandan Kumar**, and **Mr. Vikas Pandey** (Field Engineer) from **IIT Delhi**.

The session began with an introduction to Virtual Labs, an initiative under the National Mission on Education through ICT (NMEICT), MHRD, Government of India. Mr. Prateek Sharma explained how Virtual Labs provide remote access to experiments, enabling students to explore scientific and engineering concepts without physical constraints. He highlighted the integration of real-time simulations, audio-video demonstrations, and interactive learning features.

Mr. Chandan Kumar elaborated on the V Lab portal, showcasing its functionalities and the diverse range of experiments developed by premier institutes. He emphasized that Virtual Labs cater to undergraduate, postgraduate, and research students, offering a digital and interactive learning experience.

Hands-on Experience

During the practical session, students explored **various Virtual Labs**, conducting experiments relevant to their disciplines:

- ECE/EEE/ECS studentsworked on the Electric Machine Lab, Problem-Solving Lab, Image Processing Lab, Python Programming Lab, Basic Electronics Lab, and Digital Lab.
- Mechanical studentsengaged in Metal Forming and Mechanical Virtual Labs.

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The workshop concluded with an interactive discussion between DCE faculty and IIT Delhi experts, addressing queries on Virtual Lab Development.

This initiative provided students with hands-on exposure to Virtual Labs, equipping them with practical knowledge and fostering their adaptability to technology-driven learning environments.



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Introduction to Machine Learning

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Devendra Jalihal

Prof. Devendra Jalihal Chairperson,

Centre for Outreach and Digital Education, IITM



Indian Institute of Technology Madras

Roll No: NPTEL24CS51S656500405

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Jan-Apr 2024

(12 week course)





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No. of credits recommended: 3 or 4





This certificate is awarded to

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for successfully completing the course

Introduction to Machine Learning

with a consolidated score of

Online Assignments | 13.44/25 | Pro

Total number of candidates certified in this course: 1198

Devendra galihal

Prof. Devendra Jalihal Chairperson, Centre for Outreach and Digital Education, IITM



Indian Institute of Technology Madras

Jan-Apr 2024

(12 week course)



To verify the certificate





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Prof. Andrew Thangaraj NPTEL, Coordinator IIT Madras



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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.

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Principal Dronacharya College of Engineering Farrukh Nagar, Gurgaon.