Participative Learning

It includes following ways of learning. Proofs of the same are attached below.

- 1. Lab manual
- 2. Seminar presentations
- 3. Value added courses
- 4. NPTEL Courses
- 5. Guest lectures
- 6. Poster presentation
- 7. Think pair share and role play

Dr. Vasantraodada Patil Shetkari Shikshan Mandal's



Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon.

Department of Computer Science and Engineering

(Artificial Intelligence and Data Science)

Academic Year: 2023-2024

Guest Lecture

Sr. No.	Title	Name of Resource Person	Date	Target Audience (No.)	Faculty Coordinator
1	Webinar on Generative AI Workshop Building own generative AI Model	Mr. Trivikrama	01/09/2023	330 (All Branches)	Ms. R. R. Jagtap
2	Essential AI tools for current trends in Image Processing	Mr. Tahseen Mulla	21/10/2023	85 (SY - TY AIDS)	Mrs. M. S. Patil
3	Deep Learning	Mr. P.M. Gavali DKTE, Ichalkaranji	27/04/2024	TY CSE (AIDS)	Mrs. P.V. Koli
4	Opportunities in Artificial Intelligence and recent trends in AI	Dr. Vijaykumar	13/03/2024	111 (TY-CSE and TY- AIDS)	Ms.R. R. Jagtap Mrs. D. D. Dhokate
5	Technological Orientation seminar for Engineers	Mr. Tushar Jadhav Radical Technologies, Sangli	28/03/2024	47 (SY –TY AIDS)	Mrs. T. S. Upadhye
6	Web Development- Angular JS, PHP	Mr. Shreyas G. Mane One Star Software Solution, Sangli	14/05/2024	TY CSE (AIDS)	Mrs. S.S. Patil
7	Guest lecture JAVA	Yogesh Patil	24/6/2024	SY CSE (AIDS)	Mrs. T. S. Upadhye

Dept. of Computer
Science and Engineering
(Artificial Intelligence and
Data Ectorice)



Dr. Vasantraodada Patil Shetkari Shikshan Mandal's Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon, Sangli.- 416304

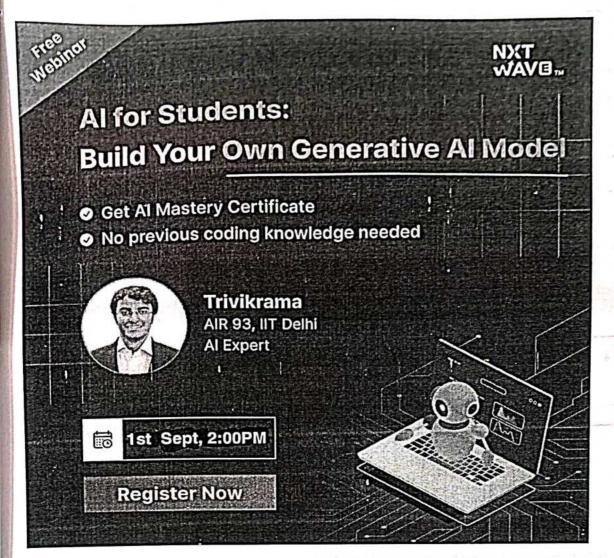
Department of Computer Science Engineering Department of Computer Science Engineering (Artificial Intelligence and Data Science)

15	
Title of the Activity	Webinar on Generative AI Workshop
Date	1/9/2023
Number of hours	2 Hours 30 Minutes
Resource Person(s)	Mr. Trivikrama [AI Expert]
Organization details	NXT WAVE
Faculty co-ordinator(s)	Ms. Rupali R. Jagtap
Target Audience	CSE-AIDS and circuit branch students
No. of Students present	330
Contents	Introduction AI Future of AI Building own Generative AI Model

Faculty Co-ordinator

Ms. R. R. Jagtap

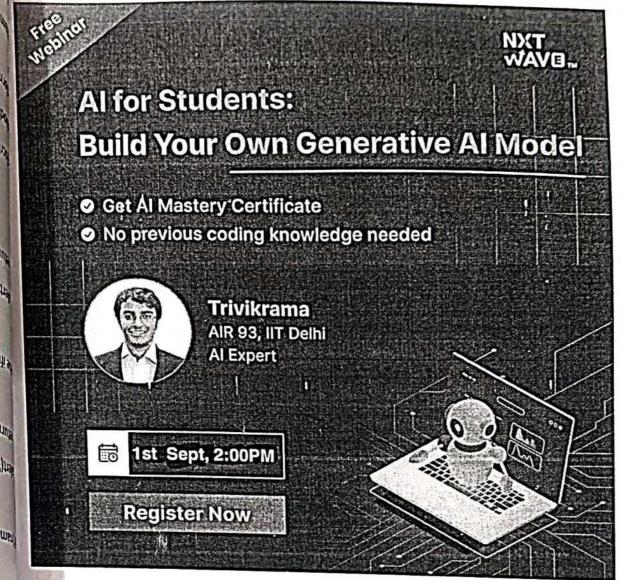
HOD CSE-AIDS



♠ Exclusive Generative Al Workshop for students of "Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon, Sangli", (all branches)

When you graduate, it's extremely likely you won't work alone on your first job. Generative AI will be your partner?

- **M** NO MATTER YOUR BRANCH.
- A Students who have AI skills will be the trailblazers, the standouts, and yes, the coolest people in the room.
- Lili It's time to learn Generative AI right from the AI-Master and IIT Delhi Alumnus (AIR 99) Mr. Trivikrama.
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- Get Al Mastery Certificate
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Rupali Jagtap <rupajagtap@gmail.com>

cate of Appreciation - Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon(Sangli)

hanshu Chouhan <sudhanshu.chouhan@nxtwave.tech>
rrjagtap.cse@pvpitsangli.edu.in, Rupali Jagtap <rupajagtap@gmail.com>, Satyapriya Dash <satyapriya.dash@nxtwave.tech>

Fri, Sep 1, 2023 at 6:21 PM

Dear sir,

We are delighted to present you with the official Certificate of Appreciation for your outstanding contribution for the workshop on "Generative Al" conducted on 1st September,2023 at 2:30PM for students of Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon,Sangli.

We look forward to collaborating with you on more exciting projects in the future!

Best Regards,



Sudhanshu Chouhan

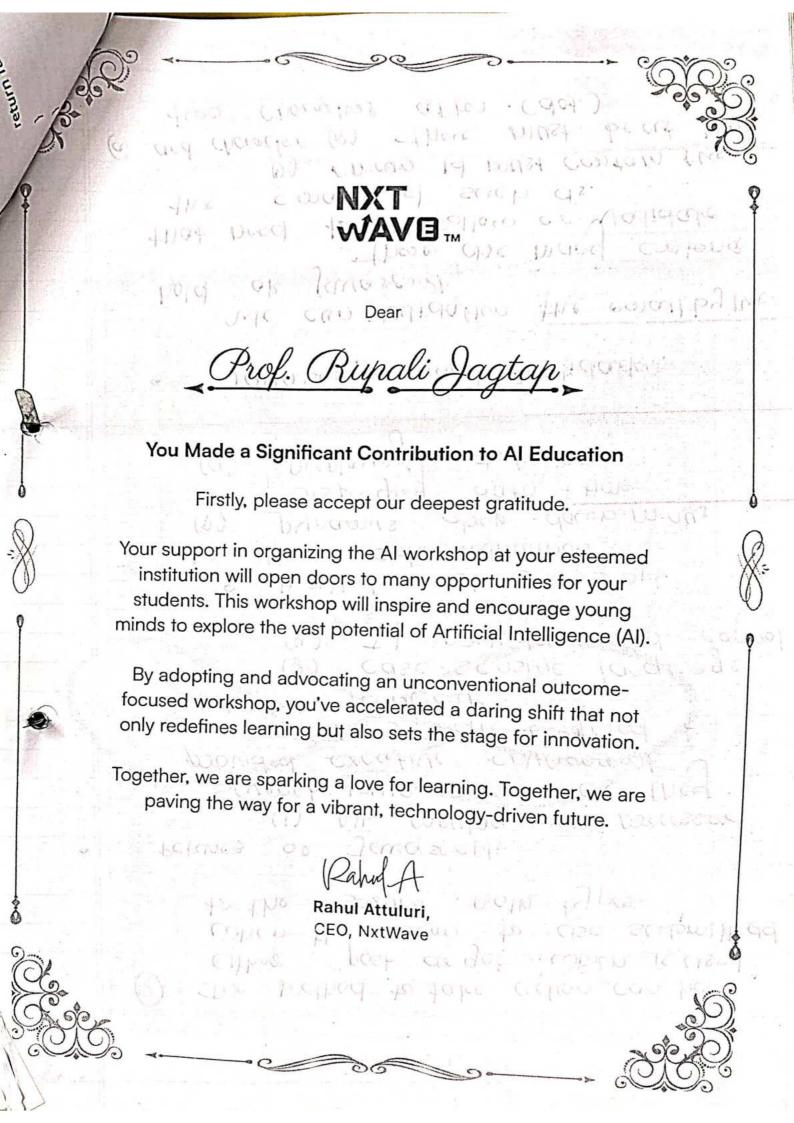
Head- Learning & Development
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Prof. Rupali Jagtap_Appreciation Letter_A4.pdf





Dr. Vasantraodada Patil Shetkari Shikshan Mandal's Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon, Sangli.- 416304 Department of Computer Science Engineering Department of Computer Science Engineering (Artificial Intelligence and Data Science)

Webinar on Generative Al 1st September 2023 Attendance Details

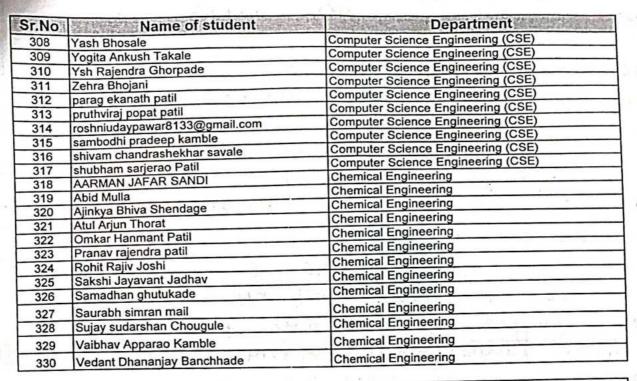
Sr.No	Name of student	Department Department
1	Aditya Dhananjay Suryawanshi	Mechanical Engineering
2	Om Milind Ranade	Mechanical Engineering
3	Pawar Latika Pramod	Mechanical Engineering
4	Rajkumar Ramchandra Patil	Mechanical Engineering
5	Sanket Patil	Mechanical Engineering
6	Sanket hanamant patil	Mechanical Engineering
7	Yash	Mechanical Engineering
8	Aarya Shriram Vaidya	OTHERS / AdiGoid Intelligence 2.5
9	Aashish Milind Gore.	OTHERS / Artificial Intelligence & Data Science
10	Aditya Jadhav	OTHERS / Artificial Intelligence & Data Science
11	Aishwarya sunil mane	OTHERS / Artificial Intelligence & Data Science
12	Akash sanjay pawaskar	OTHERS / Artificial Intelligence & Data Science
13	Akshata Hemant Kasar	OTHERS / Artificial Intelligence & Data Science
14	Akshay Balasaheb Patil	OTHERS / Artificial Intelligence & Data Science
15	Amol Vinod Jadhav	OTHERS / Artificial Intelligence & Data Science
16	Anam Babasaheb Vijapure	OTHERS / Artificial Intelligence & Data Science
17	Aniket kalekar	OTHERS / Artificial Intelligence & Data Science
18	Anisha Hanmant Sawant	OTHERS / Artificial Intelligence & Data Science
19	Anushri Sunil Kupade	OTHERS / Artificial Intelligence & Data Science
20	Archana sadashiv khandekar	OTHERS / Artificial Intelligence & Data Science
21	Arun Balaso Kumbhar	OTHERS / Artificial Intelligence & Data Science
22	Atul Shivaling Wale	OTHERS / Artificial Intelligence & Data Science
23	Avishkar Ramchandra Kirdat	OTHERS / Artificial Intelligence & Data Science
24	Aurob Kings Datil	OTHERS / Artificial Intelligence & Data Science
25	Basaveshwar Vitthalrao Vanjire	OTHERS / Artificial Intelligence & Data Science
26	Chaitanya vijay kirdat	OTHERS / Artificial Intelligence & Data Science
27	Devyani Mahendra Ghatage	UTTERS / Antiticial Intelligence & Data Science
28	Dhanshree suryakant pawar	OTHERS / Antiticial Intelligence & Data Science
29	Dipali Appaso Lavate	OTTIERS / Artificial Intelligence & Data Science
30	Dipti Ashok Sutar	OTHERS / Artificial Intelligence & Data Science
31.	Divya Arun Irale	OTHERS / Artificial Intelligence & Data Science
32	Divya Rajaram Shinde	OTHERS / Antificial Intelligence & Data Science
33	Kaustubh Shankar patil	OTHERS / Artificial Intelligence & Data Science
34	Kirti Dayanday Surawasa ti	OTHERS / Artificial Intelligence & Data Science
35	Kirti Dnyandev Suryawanshi	OTTIERS / Artificial Intelligence & Data Science
36	Kshitija Himmat Yadav	OTHERS / Artificial Intelligence & Data Science
37	Kshitija Shashikant Patil	OTHERS / Artificial Intelligence & Data Science
38	Kuldeep pramod shinde	OTHERS / Artificial Intelligence & Data Science
39	Manisha Sidu Nangare	OTHERS / Artificial Intelligence & Data Science
40	Manoj Dajindra Dorkar	OTHERS / Artificial Intelligence & Data Science
41	Mohammad Zaid Amin Golandaj	OTHERS / Artificial Intelligence & Data Science
42	Mohite Prachi Mahadev	OTHERS / Artificial Intelligence & Data Science
43	Nawab Rahim Shaikh	OTHERS / Artificial Intelligence & Data Science
44	Nikhil Arun Suryawanshi	OTHERS / Artificial Intelligence & Data Science
45	Nikita Popat Patil	OTHERS / Artificial Intelligence & Data Science
46	Nisarga Popat Patil	OTHERS / Artificial Intelligence & Data Science
47	Omkar Prakash Patil	OTHERS / Artificial Intelligence & Data Science
48	PRUTHVIRAJ ABHIMANYU ROTE	OTHERS / Artificial Intelligence & Data Science
49	Padmashri ShitalKumar Shetti	OTHERS / Artificial Intelligence & Data Science
50	Patil aniket anil	OTHERS / Artificial Intelligence & Data Science
51	Prachi Prasad Patil	OTHERS / Artificial Intelligence & Data Science
31	Praful Chidanand Birajdar	OTHERS / Artificial Intelligence & Data Science

Sr.No	Name of student	Department
52	Pragati Bhaskar Gurav	OTHERS / Artificial Intelligence & Data Science
53	Prajit Parshuram Kolekar	OTHERS / Artificial Intelligence & Data Science
54	Prajwal Pandit Mali	OTHERS / Artificial Intelligence & Data Science
55	Pranali Prakash Kadam	OTHERS / Artificial Intelligence & Data Science
	Pranjali Pratap Shirke	OTHERS / Artificial Intelligence & Data Science
	Pranoti Mahesh Patil	OTHERS / Artificial Intelligence & Data Science
	Prathmesh annaso sawant	OTHERS / Artificial Intelligence & Data Science
	Pratik shahaji kure	OTHERS / Artificial Intelligence & Data Science
	Prerana Pradip Shinde	OTHERS / Artificial Intelligence & Data Science
	Priyanka aabaso patil	OTHERS / Artificial Intelligence & Data Science
	Rohan Raju Bhopale	OTHERS / Artificial Intelligence & Data Science
	Rutuja Chandrakant Jamdade	OTHERS / Artificial Intelligence & Data Science
		OTHERS / Artificial Intelligence & Data Science
	Rutuja Cilip Mali.	OTHERS / Artificial Intelligence & Data Science
	Rutuja Prakash Sutar	OTHERS / Artificial Intelligence & Data Science
	Rutuja Rajkumar Buwa	OTHERS / Artificial Intelligence & Data Science
	Sahil Ramesh pawar	OTHERS / Artificial Intelligence & Data Science
68	Sahil Somnath Sahane	OTHERS / Artificial Intelligence & Data Science
69	Sakshi Uttam Abdare	OTHERS / Artificial Intelligence & Data Science
	Sakshi sachin magdum	OTHERS / Artificial Intelligence & Data Science
	Sakshi shashikant kodag	OTHERS / Artificial Intelligence & Data Science
72	Samruddhi Rajendra Devkule	
	Samruddhi Rajkumar kamble	OTHERS / Artificial Intelligence & Data Science
	Sanika Santosh Mane	OTHERS / Artificial Intelligence & Data Science
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	Sanika Shankar Patil	OTHERS / Artificial Intelligence & Data Science
	Sanika govind sherekar	OTHERS / Artificial Intelligence & Data Science
	Saniya usman tamboli	OTHERS / Artificial Intelligence & Data Science
	Sarfaraj Pathan	OTHERS / Artificial Intelligence & Data Science
	Sarth Sachin Sawant	OTHERS / Artificial Intelligence & Data Science 3/2
80	Sayali Manik Patil	OTHERS / Artificial Intelligence & Data Science 4
81	Shankarao patil	OTHERS / Artificial Intelligence & Data Science
82	Sharayu Umesh Jadhav	OTHERS / Artificial Intelligence & Data Science
	Shravani Sachin Sawant	OTHERS / Artificial Intelligence & Data Science
	Shravani Sampat Mane	OTHERS / Artificial Intelligence & Data Science
	Shravani vasant patil	OTHERS / Artificial Intelligence & Data Science
	Shreya Sanjay Patil	OTHERS / Artificial Intelligence & Data Science
	Shrutika Narendra Vibhute	OTHERS / Artificial Intelligence & Data Science
	Shubham Mohan Latthe	OTHERS / Artificial Intelligence & Data Science
	Siddhi Dilip Sutar	OTHERS / Artificial Intelligence & Data Science
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	Smita Kishor Patil	OTHERS / Artificial Intelligence & Data Science
	Srushti Gajanan kaware	OTHERS / Artificial Intelligence & Data Science
	Suhana Javed Mulla	OTHERS / Artificial Intelligence & Data Science
	Suhana Mahamud Magdum	OTHERS / Artificial Intelligence & Data Science
	Sujit Sanjay Jayappa	OTHERS / Artificial Intelligence & Data Science
	Sumaiyya Raju Shaikh	OTHERS / Artificial Intelligence & Data Science
	Sushant suryakant shinde	OTHERS / Artificial Intelligence & Data Science
	Swati Arun Koli	OTHERS / Artificial Intelligence & Data Science
	Tanishka Balaso Kadam	OTHERS / Artificial Intelligence & Data Science
	Uzma Miyalal Khatib	OTHERS / Artificial Intelligence & Data Science
100	Vaishnavi yuvraj samand	OTHERS / Artificial Intelligence & Data Science
101	Vedika Kadam	OTHERS / Artificial Intelligence & Data Science
	Vighnaraj Dinkar Mohite	OTHERS / Artificial Intelligence & Data Science
	Vishal Shankar wankar	OTHERS / Artificial Intelligence & Data Science
	Vishal kadam	OTHERS / Artificial Intelligence & Data Science
	Zaif Zakirhusen Nadaf	OTHERS / Artificial Intelligence & Data Science
	Abhijit Santosh Kharat	OTHERS / Artificial Intelligence & Data Science
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Pregati Basappa Arani	Sr.No	Name of student	MATERIAL STATE OF THE STATE OF
Prathamesh Prabhakar Mahajan Electronics and Telecommunication Engineering Prathamesh Prabhakar Mahajan Electronics and Telecommunication Engineering Streyan Nikrajan Tatha Electronics and Telecommunication Engineering Swarajali bhauso zagade Electronics and Telecommunication Engineering Electronics and Telecommunication Engineering Tatha Telecommunication Engineering Telecommunication Engineering Telecompunication Engineering Telectronics and Communication Engineeri			Department
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Rushikesh nikam			Electronics and Telecommunication Engineeiring
Shrawani Niranjan Tathe	119		Electronics and Telecommunication Engineering
Shreya pramod mane	120		Electronics and Telecommunication Engineering
Electronics and Telecommunication Engineering	121	Shreya pramod mane	Electronics and Telecommunication Engineeiring
Vivek Vijay Lavate Electronics and Telecommunication Engineering			Electronics and Telecommunication Engineeiring
Flectronics and Telecommunication Engineering			Electronics and Telecommunication Engineeiring
Electronics and Communication Engineering			Electronics and Telecommunication Engineeiring
Abhay Gajanan Nangare Chirayu Charudatta Jadhay Darshan Dattatray Gaikwad Electronics and Communication Engineeiring Boran Dattatray Gaikwad Electronics and Communication Engineeiring Gitanjalee Sitaram Guray Guruprasad Suresh Pujari Electronics and Communication Engineeiring Curuprasad Suresh Pujari Electronics and Communication Engineeiring Pallavi Parashuram Manugade Electronics and Communication Engineeiring Pallavi Parashuram Manugade Electronics and Communication Engineeiring Paranali Devkule Electronics and Communication Engineeiring Robert Paranali Devkule Electronics and Communication Engineeiring Electronics and Communication Engineeiring Shradha Ravaso Chougule Electronics and Communication Engineeiring Shradha Ravaso Chougule Electronics and Communication Engineeiring Electronics and Communication Engineeiring Shreya Manik Sawant Electronics and Communication Engineeiring Shreyash kadam Electronics and Communication Engineeiring Electronics and Communication Engineeiring Electronics and Communication Engineeiring Computer Science Engineering Alay Perana shantanu Sawant Mechatronics Engineering Alay PalasAsHEB PATIL Computer Science Engineering (CSE) Anti patil Anditya sanjay kale Computer Science Engineering (CSE) Abhishek Bharat salunkhe Computer Science Engineering (CSE) Alay Andre Alay Andre Alay Balasa Alay Computer Science Engineering (CSE) Alay Andre Alay Andre Alay Balasa Computer Science Engineering (CSE) Alay Andre Alay Andre Alay Bharaya Computer Science Engineering (CSE) Alay Andre A			Electronics and Communication Engineeiring
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Pallavi Parashuram Manugade Electronics and Communication Engineering			Electronics and Communication Engineeiring
Pranali Devkule Electronics and Communication Engineeiring			Electronics and Communication Engineeiring
Rohan Subhash fasale Electronics and Communication Engineeiring			
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Computer Science Engineering (CSE)	160		Computer Science Engineering (CSE)
Arman Shaikh Computer Science Engineering (CSE)	61 /	Ankush lakshman Bhairapagol	
Computer Science Engineering (CSE)			
Computer Science Engineering (CSE)	163 <i>A</i>	Arman Shaikh	Computer Science Engineering (CSE)
Computer Science Engineering (CSE)	64	Arya Ganpatrao Patil	Computer Science Engineering (CSE)
Atharv khot Computer Science Engineering (CSE)	65 /	Aryan Nagargoje	Computer Science Engineering (CSE)
68 Atharv patankar 69 Bhaktipriya Machhindra patil 70 Blessy Ashish Waydande 71 Deepak Tatyaso Patil 72 Dhanashri Dhondiram Maske 73 Dhanashri ramchandra hasabe 74 Dhanraj sanjay Patil 75 Digambar pravin patil 76 Digvijay jadhav 7 Computer Science Engineering (CSE)	66 A	Ashvee Gaikwad	Computer Science Engineering (CSE)
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174 Dhanraj sanjay Patil Computer Science Engineering (CSE)		Dhanashri Dhondiram Maske	
75 Digambar pravin patil Computer Science Engineering (CSE)			
76 Digvijay jadhav Computer Science Engineering (CSE)			
77 Dikaha Diakas Caluadha			
		Diksha Dinkar Salunkhe	Computer Science Engineering (CSE)

Sr.No	Name of student	Department
180	Divya sadashiv Adure	Computer Science Engineering (CSE)
181	Falguni vinod khot	Computer Science Engineering (CSE)
182	Gadade Ashvini Bira	Computer Science Engineering (CSE)
183	Gautam lyengar	Computer Science Engineering (CSE)
184	Gavade Rushikesh Baban	Computer Science Engineering (CSE)
185	Harshad Sanjay Onkare	Computer Science Engineering (CSE)
186	Kajal Bhimarao Gadade	Computer Science Engineering (CSE)
187	Kartikey Uttam Khot	Computer Science Engineering (CSE)
188	Khadija salim shaikh pinjari	Computer Science Engineering (CSE)
189	Komal Dhondiram shinde	Computer Science Engineering (CSE)
190	Kranti thorbole	Computer Science Engineering (CSE)
191	Lakade Manasi Maheshkumar	Computer Science Engineering (CSE)
192	MAHAMADJAKI MAHAMADFARUK KALANGA	
193	MOHINI S MANE	Computer Science Engineering (CSE)
194	Madhura Bapu Yadav	Computer Science Engineering (CSE)
195	Mahesh Pravin Raut	Computer Science Engineering (CSE)
196	Mahesh chidanand konnur	Computer Science Engineering (CSE)
197	Manali Dilip Patil	Computer Science Engineering (CSE)
198	Manasvi Pandurang Bhosale	Computer Science Engineering (CSE)
199	Mansi Adhikrao suryawanshi	Computer Science Engineering (CSE)
200	Mayur Digambar Katre	Computer Science Engineering (CSE)
201	Mayuri Malhari Jadhav	Computer Science Engineering (CSE)
202	Mrs. Madhura	Computer Science Engineering (CSE)
203	Namrata Pravin Patil	Computer Science Engineering (CSE)
204	Nasreen Jamal Nadaf	Computer Science Engineering (CSE)
205	Navnath Dinkar Hattikar	Computer Science Engineering (CSE)
206	Nikita Dilip Pukale	Computer Science Engineering (CSE)
207	Nilofar R. Chaus	Computer Science Engineering (CSE)
208	Niranjan Prafull Kulkarni	Computer Science Engineering (CSE)
209	Nisha Suresh Bhosale	Computer Science Engineering (CSE)
210	Nyayanirgune Divya	Computer Science Engineering (CSE)
211	Om Nilesh Karande	Computer Science Engineering (CSE)
212	Om Raghvendra Waghmare	Computer Science Engineering (CSE)
213	Omkar prabhu Gawade	Computer Science Engineering (CSE)
214	Onkar M. Sonne	Computer Science Engineering (CSE)
215	POOJA	Computer Science Engineering (CSE)
216	Pandurang pralhad hade	Computer Science Engineering (CSE)
217	Paras Ashok Lalasure	Computer Science Engineering (CSE)
218	Patil Akash Popat	Computer Science Engineering (CSE)
219	Dett. Heart House	Computer Science Engineering (CSE)
220	Deves shire!	Computer Science Engineering (CSE)
221	Dougles makes design	Computer Science Engineering (CSE)
222	Depoli Mahark Dati	Computer Science Engineering (CSE)
223	Droobi wasant Co.	Computer Science Engineering (CSE)
224	Dradaya Vhandanala	Computer Science Engineering (CSE)
225	Proposti Chandralia - 416 11	Computer Science Engineering (CSE)
226	Projekte Currette + 1 C	Computer Science Engineering (CSE)
227	Prairie Domoch Maharan	Computer Science Engineering (CSE)
228	Dropoli Down J. D. III	Computer Science Engineering (CSE)
229	Pranay Bandurana Bhasal	Computer Science Engineering (CSF)
230	Pranay Ponet shinds	Computer Science Engineering (CSF)
231	Pranay Caning burnth	Computer Science Engineering (CSF)
232	Pranavytijavkumas aatil	Computer Science Engineering (CSF)
233	Praniali Namday Name	Computer Science Engineering (CSF)
234	Pratibba Asius Nilsana	Computer Science Engineering (CSF)
235	Pratiksha Pradaga Indham	Computer Science Engineering (CSF)
236	Pratiksha Prashant Datil	Computer Science Engineering (CSF)
237	Pravin Tanaii Petil	Computer Science Engineering (CSF)
238	Prema Vaibbay Change	Computer Science Engineering (CSE)
239	Prithyirai Shiyaii Chausa	Computer Science Engineering (CSE)
240	Privanka Supil Kassala	Computer Science Engineering (CSE)
241	Rameshwari vitt. II I I	Computer Science Engineering (CSE)
242	Rasika Hanamantara Chi.	Computer Science Engineering (CSE)
243	Rohan Patil	Computer Science Engineering (CSE)
4.		Computer Science Engineering (CSE)

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259	Rohan Prabhakar Shinde Rohini Ankush Vaddikar Rohit Hemraj Bawankar Rohit Rajendra Kadam-Bhore Rohit Rajesh ghalgir Rupali Ramesh Jagatp Rupali Tanaji Hankare Rushikesh Ananda kolape Rushikesh Arjun Desai Rushikesh Mukund Amane Rutuja Rutuja sandip upase Rutuja Balaso Patil	Computer Science Engineering (CSE)
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252 253 254 255 256 257 258 259	Rushikesh Arjun Desai Rushikesh Mukund Amane Rutuja Rutuja sandip upase	Computer Science Engineering (CSE) Computer Science Engineering (CSE) Computer Science Engineering (CSE)
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256 257 258 259		ICOMPUTER Science Engineering (CSL)
257 258 259	Ruluja Dalaso i atti	Computer Science Engineering (CSE)
258 259	Sable nikita dayanand	Computer Science Engineering (CSE)
259	Sai Pravin Sankpal	Computer Science Engineering (CSE)
	Sakshi Arvind Patil	Computer Science Engineering (CSE)
260 1	Sakshi chougale	Computer Science Engineering (CSE)
	Sakshi chougale Sakshi vaibhav Patil	Computer Science Engineering (CSE)
		Computer Science Engineering (CSE)
	Samruddhi Vishwas Bhosale	Computer Science Engineering (CSE)
	Sandesh Vinayak Joshi	Computer Science Engineering (CSE)
	Sanika Ashok Jadhav	Computer Science Engineering (CSE)
	Sanika Prakash Thonbare	Computer Science Engineering (CSE)
	Sanika tukaram babar	Computer Science Engineering (CSE)
	Sanjana Gurav	Computer Science Engineering (CSE)
	Sanjana Rajendra Misal	Computer Science Engineering (CSE)
	Sanket Sambhaji Chavan	Computer Science Engineering (CSE)
	Sayali Ravindra Patil	Computer Science Engineering (CSE)
	Shailaja Misal	Computer Science Engineering (CSE)
	Shital Sutar	Computer Science Engineering (CSE)
	Shraddha Anil Sarode	Computer Science Engineering (CSE)
274	Shravani Keshav patil	Computer Science Engineering (CSE)
	Shreeyash Pratap Manugade	Computer Science Engineering (CSE)
	Shreya satish dudhagave	Computer Science Engineering (CSE)
	Shruti Abaso Bhosale	Computer Science Engineering (CSE)
	Shruti Mahadev Pisal	Computer Science Engineering (CSE)
	Shruti Rajshekhar Hosamani	Computer Science Engineering (CSE)
	Shruti Sandip Gaikwad	Computer Science Engineering (CSE)
281	Siddhi Rajendra Patil	Computer Science Engineering (CSE)
	Siddhi dinde	Computer Science Engineering (CSE)
283	Sneha Limbraj Satpute	Computer Science Engineering (CSE)
284	Snehal sanjay patil	Computer Science Engineering (CSE)
285	Soham Sunil Tangadi	Computer Science Engineering (CSE)
286	Srushti Sanjay Shirale	Computer Science Engineering (CSE)
287	Srushti Vijaykumar Maske	Computer Science Engineering (CSE)
288	Sudarshan Chandrakant Patil	Computer Science Engineering (CSE)
	Sukanya Sanjay ghante	Computer Science Engineering (CSE)
	Sumedh Gajanan Kamble	Computer Science Engineering (CSE)
	Suyash Ashok Shinde	Computer Science Engineering (CSE)
	Swapnali Shirgire	Computer Science Engineering (CSE)
	Swarnali Surendra vhankade	Computer Science Engineering (CSE)
	Tanvi Prabhakar Shinde	Computer Science Engineering (CSE)
	Tavadar Ashish Vyankatrao	Computer Science Engineering (CSE)
	Tejas Sahebrao Satpute	Computer Science Engineering (CSE)
297	Tulasi Dattatray Latane	Computer Science Engineering (CSE)
	VISHAL HANMANT MARATHE	Computer Science Engineering (CSE)
299	Vaishnavi Anil Khilare	Computer Science Engineering (CSE)
300		Computer Science Engineering (CSE)
	Vaishnavi Dagadu Olekar	Computer Science Engineering (CSE)
301	Vaishnavi Vikas Deshmukhe	
302	Varad Vishwas Patil	Computer Science Engineering (CSE)
303	Vidyashri jivanna Sutar	Computer Science Engineering (CSE)
304	Vipul Vivek Kulkarni	Computer Science Engineering (CSE)
305	Vishwajeet Milind Chavan	Computer Science Engineering (CSE)
306	Vivek Dnyaneshwar kumbhar	Computer Science Engineering (CSE) Computer Science Engineering (CSE)



specificand is being themse

Department	Count of students attended
OTHERS / Artificial Intelligence & Data Scienc Chemical Engineering	98
Computer Science Engineering (CSE) Department	175 CIC H &
Electronics and Communication Engineeiring Electronics and Telecommunication Engineeiri	19
Mechanical Engineering Mechatronics Engineering	7 2 2
Grand Total	335

Franciary

Faculty Co-ordinato



of Participation

Issued to

Pranoti Mahesh Patil

conducted by Al expert and IIT Delhi alumnus, Mr. Trivikrama. The workshop is designed for participating in the workshop 'Al for Students: Build Your Own Generative Al Model' to equip students with skills essential in the Al era.

Issue Date: September 14, 2023

(Rahul A Rahul A

CEO, NxtWave

NXT WAVG"

Certificate

of Completion

Pranoti Mahesh Patil

Own Generative Al Model' conducted by Al expert and IIT Delhi alumnus, Mr. Trivikrama. The has successfully completed the hands-on project in the workshop 'Al for Students: Build Your workshop is designed to equip students with skills essential in the AI era. (Calual A

Rahul A

CEO, NxtWave

Issue Date: September 14, 2023



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ARTIFICAL INTELLIGENCE AND DATA SCIEN

ORGANIZING
ADD ON COURSE ON

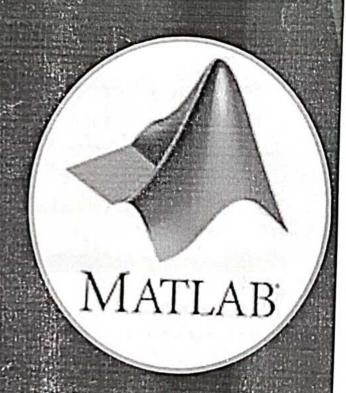
RESOURCE PERSON -MS. R. R. JAGTAP

STARTING FROM

12 August, 2023 10 am onwards MORE INFORMATION











Value Added Course (30 Hrs)

Learn MATLAB by Examples

Cou	rrse Objectives: The course aims to
1	Introduce concepts of MATLAB programming for solving engineering problems.
2	Develop the program debugging capabilities to generate an executable code.
3	Elaborate toolboxes to solve the real-world engineering problems using advanced features of the MATLAB.

	utcomes (COs): essful completion of this course, the student will be able to:
Opon succ	
= 1	Practice simple programs in MATLAB and represent outputs in an appropriate form. (K3)
2	Demonstrate an ability to generate user friendly GUI. (K3)
3	Test the response of the systems using MATLAB tool like Simulink.(K4)
4	Demonstrate good programming & debugging skills using MATLAB script. (S2)

Course Contents:

Module -I Introduction and Basics of MATLAB:

08 Hr

MATLAB Basics:

Variables, Arrays, Multidimensional Sub Arrays, Special Values, Displaying Output Data, Data Files, Scalar and Array Operations, Hierarchy of Operations, Built-In MATLAB Functions, Introduction to Plotting

Flow Control:

Branching Statements, Conditional Statements, Looping Statements

Module-II User Defined Functions:

15 11 15

User-defined & I/O functions, Variable passing in MATLAB, Optional Arguments, Sharing Data using Global Memory, Function Functions, Sub Functions, Private Functions, Nested Functions, Complex data, String Functions

Module-III Input / Output Functions:

04116

Text Read Function, Load and Save Commands, An Introduction to MATLAB File Processing, Formatted I/O Functions, Comparing Formatted and Binary I/O Function, File Positioning and Status Functions

Module-IV Graphical User Interface (GUI):

05 Hr

Handle Graphics & GUI, The MATLAB Graphics System, Object Handles, Examining and Changing Object Properties, Using Set to List Possible Property Values, User-Defined Data, Finding Objects, Selecting Objects with The Mouse, Creating and Displaying a GUI, Object Properties, GUI Components, Dialog Box

Module-V SIMULINK:

04 Hr

SIMULINK basics introduction, SIMULINK modeling, solvers, simulating model using variables from MATLAB, data import/export , state space modeling & simulation, creation of subsystems, & Mass subsystem

Module-VI Applications:

04 Hrs

Signals and Systems, Image Processing

The above contents are with hand-on practice as per the concepts /modules stated. Few experiments are stated below.

Experim	ent List:	
Expt. No.	Title	
1	Perform program on Arrays and Matrices	
2	Generation of basic Signals	
3	Program based on flow control statements	
_4	Program using User-defined function.	
5	Program for handling Complex data.	
6	Program on File handling	
7	Program for creating and displaying GUI.	
8	Build a model / System using SIMULINK.	
9	Examples of Signal and Systems, Image Processing	

Course contents are drafted and delivered by:

Prof. Rupali Ramesh Jagtap (ME Electronics, Ph.D pursing)

Head Of Department

Department of Computer Science Engg.(AIDS)

PVPIT Budhgaon.

Schedule of Course MATLAB

Day & Date	Time	No: of Hours
Saturday 12/08/2023	10.00 am to 1 am	3
Saturday 26/08/2023	10.00 am to 1 am	3
Saturday - 02/09/2023	10.00 am to 1 am	3
Saturday 09/09/2023	10.00 am to 1 am	3
Saturday 23/09/2023	10.00 am to 1 am	3
Saturday 14/10/2023	10.00 am to 1 am	3
Saturday 28/10/2023	10.00 am to 1 am	3
Saturday 11/11/2023	10.00 am to 1 am	3
Saturday 25/11/2023	10.00 am to 1 am	3
_ Saturday 09/12/2023	10.00 am to 1 am	3





Class: T. Y. (CSE-AIDS)

Padmabhooshan Dr. Vasantraodada Shetkari shikshan Mandal's
Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon(Sangli)
Department of Computer Science and Engineering
(Artificial Intelligence and Data Science)
Add-on Course on MATLAB
Attendance Sheet
Semester-VI

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Total lectures	Saturday	Saturday	Saturday	Saturday	Saturday	Saturday	Saturday	Saturday	Saturday	Saturday			
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Course Co-ordinator

HOD CSE(AIDS)



Dr. Vasantraodada Patil Shetkari Shikshan Mandal's PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY,

BUDHGAON, SANGLI.- 416304

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (Artificial Intelligence and Data Science)

Title of the Activity	Add on course on MATLAB
Date	10/02/2024
Number of hours	30
Resource Person(s)	Ms. R. R. Jagtap.
Organization details	PVPIT, Budhgaon.
Faculty co-ordinator(s)	Ms. R. R. Jagtap.
Target Audience	TY (AIDS)
Contents	I-Introduction and Basics of MATLAB:ntroduction and Basics of MATLAB II-User Defined Functions III-Input / Output Functions IV-Graphical User Interface (GUI) V-SIMULINK VI-Applications

Faculty Co-ordinator

Ms. R. R. Jagtap

HOD CSE-AIDS

Ms. R. R. Jagtap



PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY, BUDHGAON.

DEPARTMENT OF COMPUTER SCIENCE AND

ENGINEERING

(ARTIFICIAL INTELLIGENCE AND DATA

SCIENCE)

ORGANIZING
ADD ON COURSE ON

PYTHON

RESOURCE PERSON MS. P. V. KOLI

STARTING FROM

10 February, 2024 10 am onwards MORE INFORMATION











Dr. Vasantraodada Patil Shetkari Shikshan Mandal's PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY,

BUDHGAON, SANGLI.- 416304

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (Artificial Intelligence and Data Science)

Title of the Activity	Add on course on Python		
Date	12/08/2023		
Number of hours	30		
Resource Person(s)	Ms. P. V. Koli		
Organization details	PVPIT, Budhgaon.		
Faculty co-ordinator(s)	Ms. P. V. Koli		
Target Audience	SY (AIDS)		
	Python programming:		
	Section 1: Introduction to Programming		
	Section 2: Introduction to Python		
	Section 3: Sequence Data Types		
Marin South	Section 4: File Processing		
Contents	Section 5: NumPy Basics		
	Section 6: Algorithms and Flowcharts to Solve Problems		
-	Section 7: Operators, Expressions and Python Statements		
	Section 8: Functions	-	
	Section 9: Scope and Modules		

Faculty Co-ordinator

Ms. P. V. Koli

EN 6269 GO

HOD ESE-AIDS

Ms. R. R. Jagtap

Course Contents:

Python programming: -(30hrs)

Section 1: Introduction to Programming

Section 2: Introduction to Python

Section 3: Sequence Data Types

Section 4: File Processing

Section 5: NumPy Basics

Section 6: Algorithms and Flowcharts to Solve Problems

Section 7: Operators, Expressions and Python Statements

Section 8: Functions

Section 9: Scope and Modules



Schedule of Course PYTHON

Day & Date	Time	No. of Hours
Saturday 10/02/2024	10.00 am to 1 am	3 . *
Saturday 24/02/2024	10.00 am to 1 am	3
Saturday 09/03/2024	10.00 am to 1 am	3
Saturday 23/03/2024	10.00 am to 1 am	3
Saturday 30/03/2024	10.00 am to 1 am	3
Saturday 13/04/2024	10.00 am to 1 am	3
Saturday - 27/04/2024	10.00 am to 1 am	3
Saturday 11/05/2024	10.00 am to 1 am	3
Saturday 25/05/2024	10.00 am to 1 am	3
Saturday 08/06/2024	10.00 am to 1 am	3



Padmabhooshan Dr. Vasantraodada Shetkarl shikshan Mandal's
Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon(Sangli)
Department of Computer Science and Engineering
(Artificial Intelligence and Data Science)
Add-on Course on Python

Attendance Sheet
Semester-III

Academic Year-2023-2024

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Course Co-ordinator

HOD CSE(VIDS)

4 C. C.



CERTIFICATE

Of COMPLETION

Computer Science & Engineering(AIDS). completed a value added course of Python_conducted during from This is to certify that, Mr/Ms. Swarali Prakash Zore of class S.Y_has 1<u>2/08/2023 to 09/12/2023 f</u>or <u>3 months</u> organized by Department of

Event Co-ordinator

Ms. P. V. Koli



Ms. R. R. Jagtap

Principal



CERTIFICATE

Of COMPLETION

completed a value added course of Python_conducted during from Computer Science & Engineering(AIDS). This is to certify that, Mr/Ms. Mayur Digambar Katre of class S.Y has 1<u>2/08/2023 to 09/12/2023 f</u>or <u>3 months</u> organized by Department of

The state of the s

Event Co-ordinator

Ms. P. V. Koli

HOD

Ms. R. R. Jagtap

Principal



CERTIFICATE

Of COMPLETION

completed a value added course of MATLAB_conducted during from Computer Science & Engineering(AIDS). 110/02/2024 to 08/06/2024 for 3 months organized by Department of This is to certify that, Mr/Ms. <u>Sanmesh Sanjay Limkar</u>of class T.<u>Y</u>has

Event Co-ordinator

Ms. R. R. Jagtap

HOD

Ms. R. R. Jagtap

Principal



CERTIFICATE

Of COMPLETION

Computer Science & Engineering(AIDS). 110/02/2024 to 08/06/2024for 3 months organized by Department of completed a value added course of MATLAB_conducted during from This is to certify that, Mr/Ms. <u>Tanishka Balaso Kadam</u>of class T.<u>Y</u>has

Event Co-ordinator

Ms. R. R. Jagtap

HOD

Ms. R. R. Jagtap

Principal



Dr. Vasantraodada Patil Shetkari Shikshan Mandal's

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon(Sangli) Department of Computer Science and Engineering (Artificial Intelligence and Data Science)

Academic Year:2023-2024 Course Code: BTAIS307 Semester: III Course:Seminar -I

oll No.	PRN	Name of the Student	Title of the Seminar
2001	P2262691925001	Om Nilesh Karande	3D Bioprinting
2002	P2262691925002	/Swarali Prakash Zore	Braingate technology
2003	P2262691925003	/Shraddha Anil Sarode	Braingate technology
2004	P2262691925004	/Jafrin Sultana	Generative AI
2005	P2262691925005	Atharv Amit Jaju	Recommedation Engine
2006	P2262691925006	Sai Narendra Yargattikar	Image recognition & Mind reading AI
2007	P2262691925007	/Srushti Rajendra Ukirde	3D Bioprinting
2008	P2262691925008	Sujal Santosh Hingmire	Recommedation Engine
2009	P2262691925009	/Rutuja Suhas Patil	Image recognition & Mind reading Al
2010	P2262691925010	Prathamesh Pradip Mane	Image recognition & Mind reading AI
2011	P2262691925011	/Sneha Popat Mahadik	Generative AI
2012			
2013	P2262691925013	/Sakshi Satish Pawar	Deep Learning
2014	P2262691925014	/Prachi Prasad Patil	Deep Learning
2015	P2262691925015	/Ankita Anant Khade	Data Visualization
2016	P2262691925016	/Makandar Saniya Amin	The robot-sophia
2017	P2262691925017	Onkar Mahadev Sonne	Game development using AI
2017	P2262691925018	/Akshada Rajendra Bhosale	Data Visualization
2019	P2262691925019	Aniket Ramchandra Kalekar	Game development using AI
	P2262691925020	Dhanaji Dynaneshwar Jadhav	Stock Market
2020	P2262691925021	Sujal Gulab Sorate	Machine Learning
2021	P2262691925021	Makarand Vijay Patil	Screenless Display
2022	P2262691925023	/Shreya Shashikant Patil	Nano Robotics
2023	P2262691925024	Pranav Vijaykumar Patil	Application of AI
2024	P2262691925025	/Sakshi Vaibhay Patil	Virtual Reality
2025		/Rasika Hanamantrao Shinde	Nano Robotics
2026	P2262691925026	/Vishakha Hanmant Sutar	Cyber Security
2027	P2262691925027	Vishal Ashok Kadam	Deep Learning in Computer Vision
2028	P2262691925028	/Ankita Popat Jangam	Virtual Reality
2029	P2262691925029	/Shrayani Mohan Patil	AI in Virtual Assistant
2030	P2262691925030	/Shraddha Satish Patil	AI in Virtual Assistant
2031	P2262691925031	/Pratiksha Prashant Patil	Banking Bot
2032	P2262691925032	/Shital Vishvanath Ban	Banking Bot
2033	P2262691925033	/Snehal Prakash Jakhale	Screenless Display
2034	P2262691925034	Arun Balaso Kumbhar	Machine Learning
2035	P2262691925035	Sanket Sadashiv Adling	Stock Market
2036	P2262691925036	Mayur Digambar Katre	Cyber Security
2037	P2262691925037	Sandesh Vinayak Joshi	Application of AI
2038	P2262691925038	Sandesh Villayak Joshi	AI health engine
2039	P2262691925039	Kritar Kishor Jain	Stock market Strategies
2040	P2262691925040	Siddharth Nagesh Gaikwad	Machine Ethics
2041	P2262691925041	/Dipali Dadaso Didwagh	Brain get touch
2042	P2262691925042	/Shital Nivrutti Sutar	Deep learning
2043	P2262691925043	Omkar Prabhu Gawade	Self driving car
2044	P2262691925044	Paras Ashok Lalasure	6th sence tech
2045	P2262691925045	Kiran Arun Sahane	3D Bioprinting
2046	P2262691925046	Sahil Somnath Sahane	Google Assistant
2047	P2262691925047	Danesh Balkrushna Sutar	NanoRobotics
2048	P2262691925048	/Pranjali Babasaheb Jadhav	Machine Learning
2049	P2262691925049	Sarth Sachin Sawant	Al in Space Research
2050	P2262691925050	Sourabh Tukaram Maii	Machine Learning
2051	P2262691925051		iviacinne Learning

Roll No.	PRN	Name of the Student	Title of the Seminar
2052	P2262691925052	Shubham Sanjay Kale	Full Stack Devlopment
2053	P2262691925053	Shankar Sanjay Rathod	Computer Vision
2054	P2262691925054	Ajinkya Gulabrao Bhosale	Al and its Works
2055	P2262691925055	/Darshana Ramesh Hasabe	Sixth Sense Technology
2056	P2262691925056	Yash Jogendra Sankhe	Google Assistant
2057	P2262691925057	Safin Mubarak Bagwan	Full Stack Devlopment
2058	P2262691925058	Pramod Subhash Turture	Al in wildlife cinservation
2059	P2262691925059	Prathmesh Arvind Dhavaleswar	Al in Space Research
2060	P2262691925060	Tushar Hingmire	AI in wildlife cinservation
2061	P2262691925061	Sahil Dattatray Sangar	AI in Defence
2062	P2262691925062	Sudip Dilip Hajare	AI in Defence
2063	P2262691925063	Prashant Bedage	Al in Defence
2064	P2262691925064	Kaustubh Shankar Patil	Cyber Security
2065	P2262691925065	Athary Nitin Khot	Chat GPT
2066	P2262691925066	Athary Sunil Salunkhe	Chat GPT
2067	P2262691925067	Ayush Kiran Patil	AI in Defence
2068	P2262691624004	/Yogita Ankush Takale	Deep Learning
2069	P2262691624010	/Kajal Bhimrao Gadade	Deep Learning
2070	P23062691925509	Shivam Subhash Sawant	AI in Space Research
2071	P23062691925505	/Prerana Prakash Malgave	Ethical Hacking
2072	P23062691925508	/Snehalata Sanjay Ligade	Amazon Alexa
2073	P23062691925507	/Neha Mahadev Dhale	Ethical Hacking
2074	P23062691925502	/Sakshi Ashok Khade	AI in Healthcare
2075	P23062691925503	/Sneha Dhananjay Farate	Al in Healthcare
2076	P23062691925506	/Ashwini Ashok Patil	Amazon Alexa
2077	P23062691925504	/Shruti Rajendra Pawar	Cyber Security

Dept. of Computer
Science and Engineering
(Artificial Intelligence and
Data Science)

Dr. Vasantraodada Patil Shetkari Shikshan Mandal's Padmabhooshan Vasantraodada Patil Institute of Technology

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Department of Computer Science Engineering (AIDS)

REPORT ON

"Deep Learning"

Under the guidance of

Mrs. S.S.Patil

Submitted by

Roll no	Student Name
2013	Sakshi Satish Pawar
2014	Prachi Prasad Patil

Academic Year: -2023-2024

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon

Department of Computer Science Engineering (AI & DS)



CERTIFICATE

This is to certify that have satisfactorily submitted a report on

"Deep Learning"

Submitted by: -

Name	Class	Roll No	PRN No
Sakshi Satish Pawar	SY	2013	2262691925013
Prachi Prasad Patil	SY	2014	2262691925014

Mrs. S.S. Patil

Mrs. R. R. Jagtap

Principal Dr. B.S. Patil

Examinor.

ACKNOWLEDGEMENT

During the selection of a topic entitled as "Deep Learning" The help we received from our professors, family, and friends is invaluable and we are forever indebted to them.

We would first like to express our gratitude to our Principal Dr.B.S.Patil, Our HOD Mrs. R.R.Jagtap and our Project Guide Mrs. S.S.Patil for their immense support, suggestion, encouragement and interest in our micro project work. Without their invaluable suggestions our project selection would be incomplete.

Last but not least, we would like to thank our friends, parents and group members for their belief and patience in our endeavor.

Roll No.	Name of students	PRN No.
2013	Sakshi Satish Pawar	2262691925013
2014	Prachi Prasad Patil	2262691925014

Date: - 11/12/2023

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Place: -PVPIT, Budhgaon

Introduction:

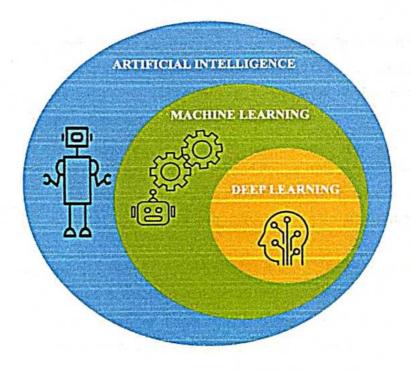
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In a word, accuracy. Deep learning achieves recognition accuracy at higher levels than ever before. This helps consumer electronics meet user expectations, and it is crucial for safety-critical applications like driverless cars. Recent advances in deep learning have improved to the point where deep learning outperforms humans in some tasks like classifying objects in images.

In an effort to create systems that learn similar to how humans learn, the underlying architecture for deep learning was inspired by the structure of a human brain. For this reason, quite a few fundamental terminologies within deep learning can be mapped back to neurology. Similar to how neurons form the fundamental building blocks of the brain, deep learning architecture contains a computational unit that allows modeling of nonlinear functions called *perceptron*.





Dr. Vasantraodada Patil Shetkari Shikshan Mandal's 'admabhooshan Vasantraodada Patil Institute of Technology, Budhgaon(Sangli)

Department of Computer Science and Engineering (Artificial Intelligence and Data Science)

Academic Year:2023-2024 Course Code: BTAIS407

Semester: IV

Class: SY[CSE(AIDS)] Course:Seminar -I

Roll No.	PRN	Name of the Student	Title of the Seminar
2001	P2262691925001	Om Nilesh Karande	Bionic Limb Technology
2002	P2262691925002	/Swarali Prakash Zore	Project Loon
2003	P2262691925003	/Shraddha Anil Şarode	Project Loon
2004	P2262691925004	/Jafrin Sultana	Cloud Computing
2005	P2262691925005	Athary Amit Jaju	Big Data
2006	P2262691925006	Sai Narendra Yargattikar	Image Generating AI
2007	P2262691925007	/Srushti Rajendra Ukirde	Touch-less Touch screen
2008	P2262691925008	Sujal Santosh Hingmire	Big Data
2009	P2262691925009	/Rutuja Suhas Patil	Image Generating AI
2010	P2262691925010	Prathamesh Pradip Mane	Computer Vision
2011	P2262691925011	/Sneha Popat Mahadik	Cloud Computing
2013	P2262691925013	/Sakshi Satish Pawar	Virtual Reality
2014	P2262691925014	/Prachi Prasad Patil	Virtual Reality
2015	P2262691925015	/Ankita Anant Khade	Metamorphic Robot
2016	P2262691925016	/Makandar Saniya Amin	IoT and Security concern
2017	P2262691925017	Onkar Mahadev Sonne	Bionic Limb Technology
2018	P2262691925018	/Akshada Rajendra Bhosale	Metamorphic Robot
2019	P2262691925019	Aniket Ramchandra Kalekar	Touch-less Touch screen
2020	P2262691925020	Dhanaji Dynaneshwar Jadhav	AI In Stock Market
2021	P2262691925021	Sujal Gulab-Sorate	AI In Stock Market
2022	P2262691925022	Makarand Vijay Patil	AI In Education
2023	P2262691925023	/Shreya Shashikant Patil	Genative Ai
2024	P2262691925024	Pranav Vijaykumar Patil	Li-Fi Technology
2024	P2262691925025	/Sakshi Vaibhav Patil	Ai In Defence
	P2262691925025	/Rasika Hanamantrao Shinde	Blue Brain
2026		/Vishakha Hanmant Sutar	Devin:First Software Engineer
2027	P2262691925027	Vishal Ashok Kadam	
2028	P2262691925028	A A CONTRACTOR OF THE CONTRACT	Devops
2029	P2262691925029	/Ankita Popat Jangam /Shrayani Mohan Patil	IoT In Industry Blue Brain
2030	P2262691925030	7011111	
2031	P2262691925031	/Shraddha Satish Patil	Chatbot In Healthcare
2032	P2262691925032	/Pratiksha Prashant Patil	Chatbot In Healthcare
2033	P2262691925033	/Shital Vishvanath Ban	Neuromophic Computing
2034	P2262691925034	/Snehal Prakash Jakhale	Neuromophic Computing
2035	P2262691925035	Arun Balaso Kumbhar	Devin:First Software Engineer
2036	P2262691925036	Sanket Sadashiv Adling	Al In Education
2037	P2262691925037	Mayur Digambar Katre	Al In Stock Market
2038	P2262691925038	Sandesh Vinayak Joshi	Genative AI
2039	P2262691925039	Kritar Kishor Jain	Al In Defence
2040	P2262691925040	Siddharth Nagesh Gaikwad	Support Vector Machine Algorithm
	P2262691925041	/Dipali Dadaso Didwagh	NanoRobotics
2041	P2262691925042	/Shital Nivrutti Sutar	NanoRobotics
2042	P2262691925042	Omkar Prabhu Gawade	Web Development
2043		Paras Ashok Lalasure	plant disease detection
2044	P2262691925044	Kiran Arun Sahane	Angle Prediction
2045	P2262691925045	Sahil Somnath Sahane	Angle Prediction
2046	P2262691925046	Danesh Balkrushna Sutar	AI in Animation
2047	P2262691925047	/Pranjali Babasaheb Jadhav	Student performance using data min
2048	P2262691925048	/Pranjan Davasance Jacia	AI in NPC behaviour
2049	P2262691925049	Sarth Sachin Sawant	ra in the dentation

Roll No.	PRN	Name of the Student	Title of the Seminar
2050	P2262691925050	Sourabh Tukaram Mali	plant disease detection
2051	P2262691925051	Prathmesh Prakash Salunkhe	AI in NPC behaviour
2052	P2262691925052	Shubham Sanjay Kale	Support Vector Machine Algorithm
2053	P2262691925053	Shankar Sanjay Rathod	Internet of Robotic Things
2054	P2262691925054	Ajinkya Gulabrao Bhosale	AI in Animation
2055	P2262691925055	/Darshana Ramesh Hasabe	ANN
2056	P2262691925056	Yash Jogendra Sankhe	Internet of Robotic Things
2057	P2262691925057	Safin Mubarak Bagwan	Web Development
2058	P2262691925058	Pramod Subhash Turture	AI in Sports
2059	P2262691925059	Prathmesh Arvind Dhavaleswar	VFX
2060	P2262691925060	Tushar Hingmire	AI in Sports
2061	P2262691925061	Sahil Dattatray Sangar	AI in Sports AI in fog computing
2062	P2262691925062	Sudip Dilip Hajare	AI in fog computing
2063	P2262691925063	Prashant Bedage	Learning
2064	P2262691925064	Kaustubh Shankar Patil	Deep learning in health care
2065	P2262691925065	Athary Nitin Khot	Water monitoring system
2066	P2262691925066	Athary Sunil Salunkhe	Water monitoring system
2067	P2262691925067	Ayush Kiran Patil	Learning
2068	P2262691624004	/Yogita Ankush Takale	Mind reading computer
2069	P2262691624010	/Kajal Bhimrao Gadade	Metaverse technology
2070	P23062691925509	Shivam Subhash Sawant	VFX
2071	P23062691925505	/Prerana Prakash Malgave	AI in Mass Mission
2072	P23062691925508	/Snehalata Sanjay Ligade	AI in project management
2073	P23062691925507	/Neha Mahadey Dhale	Al in project management
2074	P23062691925502	/Sakshi Ashok Khade	Green Cloud Computing
2075	P23062691925503	/Sneha Dhananjay Farate	Green Cloud Computing
2076	P23062691925506	/Ashwini Ashok Patil	AI in Mass Mission
2077	P23062691925504	/Shruti Rajendra Pawar	Prediction of Heart Disease

HOD CSE(AIDS)

Dept. of Computer
Science and Engineering
(Artificial Intelligence and
Data Science)

A

Seminar Report

on

"NANOROBOTICS"

Submitted By

Name of the Student	Roll No	PRN
Dipali Dadaso Didwagh	2041	2262691925041
Shital Nivrutti Sutar	2042	2262691925042

Class: S.Y. B.Tech [CSE(AIDS)]

Under the Guidance of

Mrs. M.S.Patil.

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Department of Computer Science and Engineering (Artificial Intelligence and Data Science)

Dr. Vasantraodada Patil Shetkari Shikshan Mandal's

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon, Sangli - 416304

2023-2024

CERTIFICATE

This is to certify that the Seminar Report entitled "Nanorobotics", which is being submitted by,1)Dipali Didwagh, 2)Shital Sutar of class S.Y [CSE(AIDS)] as partial fulfillment for the Degree of Bachelor of Technology [Computer Science and Engineering(Artificial Intelligence and Data Science)] of DBATU, Lonere. This is bonafide work carried under my supervision and guidance.

Place: PVPIT, Budhgaon

Date

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Mrs. M.S.Patil.

Guide

Prof. Ms. R. R. Jagtap

HOD

Principal

External Examinar

Dr.B.S.Patil

ACNOWLEDGEMENT

The satisfaction & euphoria that accompany the successful completion of any task would be incomplete without the mention of people who made it possible. So We acknowledge all those whose guidance and encouragement served as a beacon light & crowned my efforts with success.

We have immense pleasure in expressing thanks to the principal Dr. B. S. Patil for providing all the facilities for the successful completion of the project.

With due respect, We thank our H.O.D. Prof.Ms. R.R. Jagtap, Department Computer Science and Engineering (Artificial Intelligence and Data Science) for her motivating support, keen interest which kept my spirits alive all through.

We would like to express thanks to our guide Mrs. M.S.Patil. Department Computer Science and Engineering (Artificial Intelligence and Data Science) who has guided me throughout the completion of this project.

Finally, We would like to thank all the teaching and non-teaching staff and all our friends who have rendered their support in the completion of this report.

Name and Signature of student:

2.Shital Nivrutti Sutar.

3. Structure of Nanorobotics

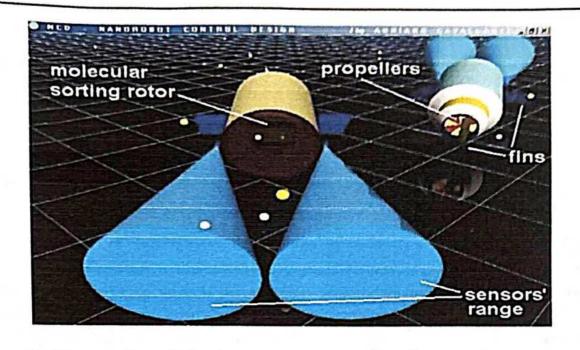


Fig3.1 molecular identification

The nanorobot design is derived from biological models and is comprised of components such as *molecular sorting rotors* and a robot arm (*telescoping manipulator*). The nanorobot exteriors considered in our design assumes a diamond like material to which may be attached an artificial glycocalyx surface that minimizes fibrinogen (and other blood protein) adsorption and bioactivity, thus ensuring sufficient biocompatibility for the nanorobot to avoid immune system attack

3.1 Molecular sorting rotors:

Molecular sorting rotors made up of carbon nanotubes. This nanotubes with nan-organs used for changing the direction of movement.

Propeller:

like that in nanorobots it is used to drive forward against the blood stream. In context of nanorobotics, propellers are tiny, often molecular -scale devices designed to facilitate movement through various mediums, such as liquids or

PVPIT, Budhgaon 2023-2024 4



Dr. V. P. Shetkari Shikshan Mandal's

P. V. P. Institute of Technology, Budhgaon. (Sangli)



A/P:-Budhgaon, Tal:- Miraj, Dist. Sangli, Pin-416304, India
(Approved by AICTE, New Delhi, Government of Maharashtra and affiliated to DBATU, Lonere)

DEPARTMENT OF MECHANICAL ENGINEERING

NAAC Criteria 2.3.1 Participative Learning (A.Y 2023-24)

Following activities are covered under NAAC criteria 2.3.1 – Participative Learning

- 1. Practical Lab Manuals/ Journals (with Sample copies of Strength of Materials Lab)
- 2. Value added Certification course on "**Programming in C and CPP**" completed by students, in association with **IIT Bombay- Spoken Tutorials** (with sample certificates).
- 3. Participation & Winning performance by students in "GO-KART Racing car competitions" with car building & racing teams "TROJAN" and "ASHWAMEGH".

1. Practical Lab Manuals/ Journals:

Following is the List of Various Laboratory courses conducted at the Department, as a regular part of University syllabus. Sample copies of Strength of Materials Lab Manual/ Journal are provided for the proof.

Lab Course Code	Name of Lab Course	Name of Lab course teacher
Mechanical Engineering Lab –	Materials Science and Metallurgy Lab	Mrs. S. P. Shinde
I. (BTMCL306) S.Y. Sem - III	Fluid Mechanics Lab	Mr. S. A. Wani
Machine Drawing and CAD Lab. (BTMCL305) S.Y. Sem –III	Machine Drawing and CAD Lab.	Mr. V. P. Patil
Mechanical Engineering Lab –	Strength of Materials (SOM) Lab	Mr. V. P. Patil
II. (BTMCL406) S.Y. Sem - IV	Theory of Machines-I (TOM-I) Lab	Dr. S. S. Kulkarni
	Manufacturing Processes-I (MP-I) Lab	Mrs. S. P. Shinde
Mechanical Engineering Lab –	Heat Transfer Lab	Mr. S. M. Gheji
III. (BTMCL 507) T.Y. Sem - V	Theory of Machines-II (TOM-II) Lab	Dr. S. S. Kulkarni
	Machine Design Practice-I (MD-I) Lab	Mr. V. P. Patil
Mechanical Engineering Lab –	Manufacturing Processes-II (MP-II) Lab	Mrs. S. P. Shinde
IV. (BTMCL 606) T.Y. Sem - VI	Machine Design Practice-II (MD-II) Lab	Mr. K. D. Ghatage
	Applied Thermodynamics Lab	Mr. S. J. Adsul
Mechanical Engineering Lab –	Mechatronics Lab	Mr. K. D. Ghatage
V. (BTMCL 706) B.Tech. Sem -	Non-Conventional Machining Lab	Dr. M. L. Harugade
VII	Design of AC systems Lab	Mr. S. M. Gheji

DR. VASANTRAO DADA PATIL SHETKARI Padmabhooshan Vasantraodada Patil

MECHANICAL ENGINEERING

1) Class S.	r. Mech.	
2) Batch Incharge	S-M.G.	
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SHIKSHAN MANDAL SANGLI'S Institute of Technology, Budhgaon, (Sangli)

DEPARTMENT (Degree)

Subject: S.O.M. Lab. Date: 22/02/2014

Batch: An-

			Batch: A2	4.00
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Lab Assistant

Batch Incharge

Mechanical Engineering (Degran)

DR. VASANTRAO DADA PATIL SHETKARI Padmabhooshan Vasantraodada Patil

MECHANICAL ENGINEERING

1) Class 9.4	. B.Tech	
) Batch Incharge	Vishal P. Pati	1
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4) Title	compression	Test I
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e Talas (a)	54.1	52-)	50.5	
5) Timber (small)	54.1	327	52.5	54.2
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SHIKSHAN MANDAL SANGLI'S
Institute of Technology, Budhgaon, (Sangli)

DEPARTMENT (Degree)

Subject: SOM lab
Date: 06/03/12024

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<u> </u>	Roll No.	Name of Students	Signature	Remarks
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Lab Assistant

DR. VASANTRAO DADA PATIL SHETKARI Padmabhooshan Vasantraodada Patil

MECHANICAL ENGINEERING

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SHIKSHAN MANDAL SANGLI'S Institute of Technology, Budhgaon, (Sangli)

DEPARTMENT (Degree)

Lab Assistant

Subject: 5.0.M. Lab Date: 13-03-2024 Batch : A-1 Roll No. Name of Students Signature Remarks Krillas 5, chousule 2101 Kisic 2102 mung. 2 Varenill - Abcent -2103 Pranav. P. Pati -Past 2104 11-7 1-17 21 05 Sharad s Patil B.Hil 2106 Amoi . D. mote mote. A.D 21110 Withhaus Armi 2107 2108 Abbised T. Hand pronde 2109 Jay. N. Kaxande 2110 Sorthak S. Patil - satisfo Sayali - B. Powar 2111 2112 Jananina Abhang shendage 2113 2114 < Abreut -21.15 Brotik S. Irale Torrak 21.15 - Absent 21 17 - Absent -21 18 AMIF . S. Patel. Agrantle 21 19 redant .s. kamble 2120 < Absent Batch Incharge

mechanical Enguiee. Ing (Degree)

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon (Sangli)



Certificate

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PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY, BUDHGAON

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	Ten sile test			
2	5 - On frammad kg	28/2/24	10 -30	
	compression test			
3.	Experiment NO-3	15/3/24	28-10	(17)
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4.	Experiment NO-4	2013124	36-38	
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3.	Experiment NO-S	03/4/24	39-348	
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6.	3-04 trammagks	0715124	49-55	
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	The second secon			Ex ways.
				1 19000

Experiment No. 01

TENSILE TEST

1. Aim:

To perform Tensile test on different material using UTM

2. Objective:

- 1. To determine Tensile Strength
- To study the behaviour of the given material under Tensile load and to determine Percentage elongation in length, Percentage reduction in area, Working stress or permissible stress or safe stress, Young's modulus, Yield stress, Ultimate stress or Maximum tensile stress, Breaking stress or Failure stress

3. Principle:

In engineering, tension test is widely used to provide basic design information on the strength of the materials. In the tension test a specimen is subjected to a continually increasing uniaxial tensile force while simultaneous observations are made of the elongation of the specimen. Depending on the ability of material to undergo plastic deformation before the fracture two fracture modes can be defined.

Ductile fracture - most metals (not too cold):

- Extensive plastic deformation ahead of crack
- · Crack is "stable": resists further extension unless applied stress is increased

Brittle fracture - ceramics, ice, cold metals:

- · Relatively little plastic deformation
- · Crack is "unstable": propagates rapidly without increase in applied stress

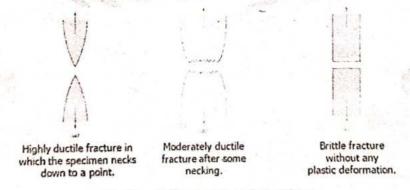


Fig. Steps in fracture of tensile Specimen

4. Apparatus Required:

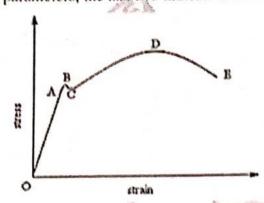
- Universal Testing machine,
- 2. Dial gauge,

3. Vernier calliper,

4. Scale.

5. Theory:

A stress-strain curve is plotted from the load-elongation measurements. The parameters which are used to describe the stress-strain curve of a material are the tensile strength, yield strength or yield point, percent elongation and reduction of area. The first two are strength parameters; the last two indicate duetility.



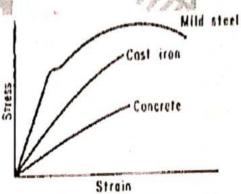


Fig. Strass Strain Curve

- Limit of proportionality (A): It is the limiting value of the stress up to which stress is
 proportional to strain.
- Elastic limit: This is the limiting value of stress up to which if the material is stressed and then released (unloaded), Strain disappears completely and the original length is regained.
- 3. Upper Yield Point (B): This is the stress at which, the load starts reducing and the extension increases. This phenomenon is called yielding of material.
- Lower Yield Point (C): At this stage the stress remains same but strain increases for some time.
- Ultimate Stress (D): This is the maximum stress the material can resist. At this stage
 cross sectional area at a particular section starts reducing very fast (fig.1). This is
 called neck formation.
- Breaking Point (E): The stress at which finally the specimen fails is called breaking point.
- Hooks law: Within the elastic limit, the stress is proportional to the strain for an isentropic material.

6. Experimental Setup:

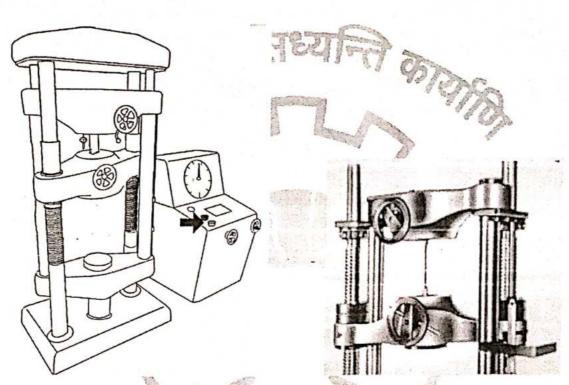


Fig. UTM and Tensile Testing Arrangement

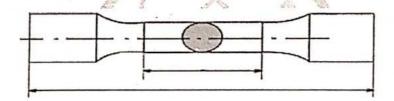


Fig. Specimen with circular cross section

7. Procedure:

- Take the Specimen, measure the diameter at three different places. Also measure the
 overall length of specimen. Calculate the gauge length according to the diameter of the
 specimen.
- Select the suitable loading image depending on the diameter of specimen. Start the UTM and adjust the dead weight of movable heads and then set the load pointer to zero.
- 3. Fix the specimen bar between the grips of top and middle cross heads of loading frame.
- 4. Attach the extensometer on the bar at the central portion of the bar. The distance between upper and lower pivots of extensometer shall be equal to gauge length. Rotate the dial gauge till the pointer reads zero.
- Switch on the machine and open the control valve so that the load is increased gradually and at the required rate.
- Corresponding to loads, note the readings of extensometer. For initial few observations, load and extension are in pace with each other. Record the yield point load by

observing the hesitation of load pointer. The extension readings are faster at this moment.

- Remove the extensometer; and measure extension by divider or suitable scale, till ultimate load.
- Record the maximum load. Observe the decrease in load and neck formation on the specimen.
- 9. Record the load at fracture and switch off the machine.
- 10. Remove the specimen. Observe the cup and cone formation at the fracture point. Rejoin the two pieces, measure the final gauge length and the reduced diameter.

8. Observation:

Material Used For the Tensile Test: Cast Troon

Before Test

- 1. Initial Gauge diameter d1 = g.lmm
- 2. Initial Gauge length L1 = 20000
- 3. Total Length of Specimen = 39mm
- 4. Any Other Dimensions

After test:

- 1. Final Gauge diameter d2 = 83 m m
- 2. Final Gauge length L2 = 21 mm
- 3. Any Other Dimensions

9. Calculations:

1. Initial Cross sectional area $\Lambda_1 = \pi d_1^2/4$

2. Final Cross Sectional area $A_2 = \pi \Omega_2^2/4$

3. Yield stress = Yield load / Cross Sectional Area

4. Ultimate Stress = Ultimate Load/ Cross Sectional Area

5. Breaking Stress= Breaking Load/ Cross Sectional Area

6. % Elongation=($L_2 - L_1/L_1$)×100

$$\left[\frac{21-26}{20}\right] \times 100 = 5.1$$

7. Reduction in area= $(A_2 - A_1/A_1) \times 100$

$$1-86.7 = 001 \times \left[\frac{05.15 - 20.05}{05.12} \right]$$

8. Stress(σ) (Within elastic limit) =

9. Corresponding strain(e)=

$$e = \frac{\Delta L}{L} = \frac{01}{19.7} = 0.05$$

10. Modulus of elasticity, E= σ/e

10. Results:

- 1. Initial Cross sectional area A₁ = \$1.50 mm²
- 2. Final Cross Sectional area A₂ = \$4.07 mm²
- 3. Yield stress = 251.52 Nlmm2
- 4. Ultimate Stress = 307.07 Nlmm2
- 5. Breaking Stress = 301.8 3 Nlmm²
- 6. % Elongation = S. I
- 7. Reduction in area = 4.99-1
- 8. Stress(σ) (Within elastic limit) = $g \cdot ? \circ Plmm^2$
- 9. Corresponding strain(e) = 0.05
- 10. Modulus of clasticity, E = 194Nlmm2

11. Conclusions:

cast ison gets facture without any plastic deformation. Their is no any major in diameter during Fracture.

Mild Steel

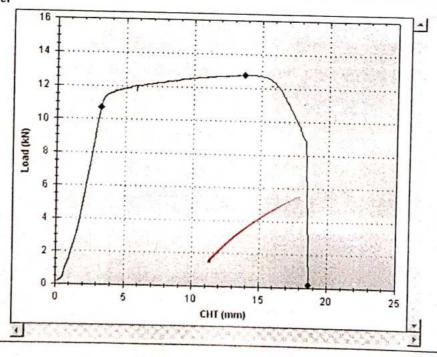
Padmabhshushan Vasantraodada Patil Institute Of Technology

Budhgaon Polytechnic Wing(045),Budhgaon Tal- Miraj Dist-Sangli

TENSILE TEST REPORT

Machine Model FUT-40 Machine Serial No ' Customer Name A1 SY. B.Tech				Test File Name Date Time Customer Address	A1 tensile Al.Utm 21/02/2024 10:56 AM 5 Y B.TEch		
Lot No. Order No.	1			Test Type Heat No.	Tensile		
Input Data Specimen Shape		Solid Roun		Output Data Load At Yield	Г	10.62	kn
Specimen Description Specimen Diameter		Aluminiun	1	Elongation At Yield Yield Stress	Ë	3.250	mm N/mm
		8.31	mm	Load at Peak Elongation at Peak Tensile Strength		12.760 14.150	kN
Pre Load Value Hax. Load		0 400	kN	Load At Break Elongation At Break		0.180	N/mm2
dax. Elongation Specimen Cross Secti	on Area	200 on Area 54.24	mm mm2	% Reduction Area % Elongation		18.670 62.33 7.61	mm %
inal Sp Diameter inal Gauge Length inal Area		5.1 212	mm		L	7.01	70

Load Vs. Cross Head Travel



observing the hesitation of load pointer. The extension readings are faster at this moment.

- 7. Remove the extensometer; and measure extension by divider or suitable scale, till ultimate load.
- 8. Record the maximum load. Observe the decrease in load and neck formation on the specimen.
- 9. Record the load at fracture and switch off the machine.
- 10. Remove the specimen. Observe the cup and cone formation at the fracture point. Rejoin the two pieces, measure the final gauge length and the reduced diameter.

8. Observation:

Material Used For the Tensile Test: Aluminium

Before Test

- 1. Initial Gauge diameter d1 = 8 · 31 mm
- 2. Initial Gauge length L1 = 19.7 mm
- 3. Total Length of Specimen = 40 mm
- 4. Any Other Dimensions

After test:

- 1. Final Gauge diameter d2 = S.2mm
- 2. Final Gauge length L2 = 21.2 mm
- 3. Any Other Dimensions

9. Calculations:

1. Initial Cross sectional area $\Lambda_1 = \pi d_1^2/4$

- 2. Final Cross Sectional area $\Lambda_2 = \pi d_2^2/4$ $3.14 \times (8.2)^2 = 21.22 \text{ mg}^2$
- 3. Yield stress = Yield load / Cross Sectional Area

 10.62 × 10³

 = 506.47 N) mm²
- 4. Ultimate Stress = Ultimate Load/ Cross Sectional Area

5. Breaking Stress= Breaking Load/ Cross Sectional Area

6. % Elongation=(L2 - L1/L1)×100

7. Reduction in area=(A2 - A1/A1) ×100

8. Stress(σ) (Within elastic limit) =

9. Corresponding strain(e)=

10. Modulus of elasticity, E= σ/e

10. Results:

1. Initial Cross sectional area A₁ = S4.20 mm²

2. Final Cross Sectional area $A_2 = -21.22 \text{ mm}^2$

3. Yield stress = Sootun Nimm2

4. Ultimate Stress = 6 01.31 N Im m²

5. Breaking Stress = 8.48 NImm?

6. % Elongation = 7.61'/.

7. Reduction in area = 60.84').

8. Stress(σ) (Within elastic lung) = 18.41 βmm²

9. Corresponding strain(e) = 0.023

10. Modulus of elasticity, E = 738 N/mm²

11. Conclusions:

which the specimen necks down to a point.

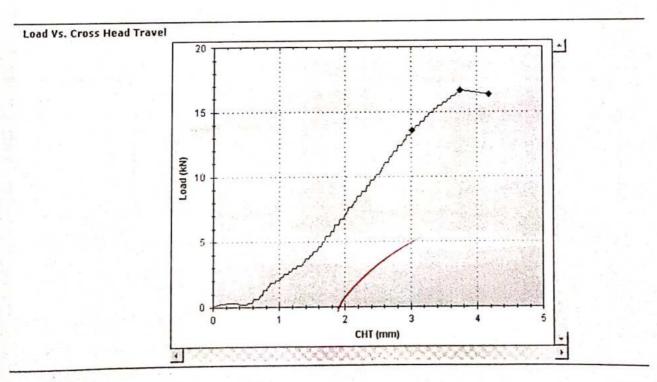
Cast Iron

Padmabhshushan Vasantraodada Patil Institute Of Technology

Budhgaon Polytechnic Wing(045), Budhgaon Tal- Miraj Dist-Sangli

TENSILE TEST REPORT

Machine Model Machine Serial No Customer Name	FUT-40 ' A1 SY.	B.Tech		Test File Name Date Time Customer Address		ile CI.Utm :024 10:50 AM ch	
Lot No.	2			Test Type	Tensile		
Order No.	1			Heat No.			
Input Data				Output Data			
Specimen Shape		Solid Roun	d	Load At Yield	Γ	13.16	kN
SpecimenType		Cast Iron		Elongation At Yield	Ì	3.000	mm
Specimen Descriptio	n			Yield Stress	Ī	249.195	N/mm2
				Load at Peak	Ī	16.620	kN
Specimen Diameter		8.2	mm	Elongation at Peak	Ĭ	3.800	mm
Guage Length For %	elong	200	mm	Tensile Strength	Ī	314.712	N/mm2
Pre Load Value		0	kN	Load At Break	Ì	16.320	kN
Max. Load		400	kN	Elongation At Break	Ĭ	4.180	mm
Max. Elongation		200	mm	% Reduction Area	וֹ		%
Specimen Cross Sect	ion Area	52.81	mm2	% Elongation	Ì		9/6
Final Sp Diameter		8.2	mm				
Final Gauge Length		200	mm				
Final Area		52.81	mm2				



PVPIT Budhgaon

Department of Mechanical Engg.

Value Added Certification Course:- Programming in C and CPP

offered by SPOKEN TUTORIALS, IIT BOMBAY

Duration: January, 2024

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Department of Mechanical Engg.

Value Added Certification Course:- Programming in C and CPP

offered by SPOKEN TUTORIALS, IIT BOMBAY Duration: January, 2024

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Certificate of Participation

This is to certify that VISHWAJEET JADHAV participated in the C and Cpp training organized at Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon in January 2024 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C** and **Cpp** were covered in the training.

March 10th 2024

Prof. Kannan M Moudgalya IIT Bombay



Certificate of Participation

This is to certify that MANASI MITHARI participated in the C and Cpp training organized at Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon in January 2024 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C** and **Cpp** were covered in the training.

March 10th 2024

Prof. Kannan M Moudgalya IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Advission Force (Previously MHRD), County of Education (previously MHRD), Cou

NAAC criteria 2.3.1 – Participative Learning Activities

3. Participation & Winning performance by students in the "GO-KART Racing car competitions" with car building & racing teams – "TROJAN" and "ASHWAMEGH".

Participative Learning: Go- Kart Manufacturing in PVPIT Budhgaon, Maharashtra, India

Introduction

FKDC is an intercollegiate design competition organized by the Society of Fraternity of Mechanical and Automotive Engineers. The competition challenges student teams to design, manufacture, and validate a single-seat, Go- kart for enduring rugged vehicle. This report details the problem-solving methodologies employed by our team during the manufacturing of our Go kart in Budhgaon, Maharashtra, India.

Problem-Solving Methodologies

- **Design for Manufacturing (DFM):** During the design phase, we prioritized DFM principles to ensure efficient and cost-effective manufacturing in our local machine shops. This involved:
- Selecting readily available materials and standardized components.
- o Designing components for ease of machining and fabrication.
- o Minimizing part complexity and maximizing modularity for ease of assembly.
- **Design Verification and Validation:** We employed DV&V techniques to ensure the design met the competition's requirements and addressed potential issues before manufacturing. This included:
- Finite Element Analysis (FEA) to simulate stress distribution and identify potential failure points.
- Building and testing prototypes of critical components to validate functionality and identify areas for improvement.
- **Project Management:** We adopted a structured project management approach to ensure timely completion within budget constraints. This involved:
- o Work breakdown structure (WBS) to break down the project into manageable tasks.
- o Gantt chart to schedule tasks, identify dependencies, and track progress.
- Regular team meetings to discuss progress, address challenges, and make collaborative decisions.
- **Root Cause Analysis:** To effectively troubleshoot any manufacturing issues that arose, we followed a systematic RCA approach. This involved:
- o Identifying the problem and its symptoms.
- o Investigating potential root causes through brainstorming and data analysis.
- o Implementing corrective actions to address the root cause and prevent recurrence.
- o Continuously monitoring and evaluating the effectiveness of corrective actions.
- **Communication and Collaboration:** Effective communication and collaboration were paramount throughout the manufacturing process. We implemented strategies such as:
- o Regular team meetings to discuss progress, challenges, and solutions.
- o Utilizing communication tools like project management software and messaging platforms.
- o Maintaining clear documentation of design changes, decisions, and problem-solving steps.



Outcomes

By implementing these problem-solving methodologies, our team successfully manufactured our Go- kart within the stipulated time frame and budget constraints. The Go- kar performed well in the competition, highlighting the effectiveness of our chosen methodologies.

Conclusion

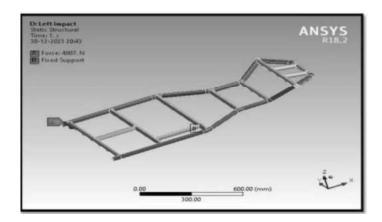
The problem-solving methodologies outlined in this report demonstrate our team's ability to translate theoretical design concepts into a functional and competitive Go- Kart. These methodologies can be applied to future Go karting projects and other engineering endeavors to ensure efficient problem-solving, effective project management, and successful product development.

Further Improvements

We are continuously striving to improve our problem-solving methodologies. Here are some areas for further development:

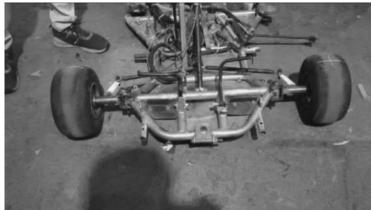
- Utilization of design optimization software to improve component performance and weight reduction.
- Implementation of a more robust quality control plan to ensure consistent manufacturing quality.

We believe that by continuously refining our problem-solving methodologies, we can achieve even greater success in future Go karting competitions and engineering projects.





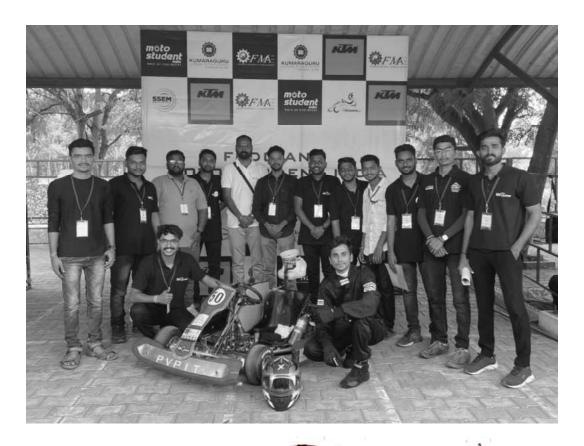
















P.V.P. Karting Club

Formula kart design challenge season -8 (FKDC S-8)

List of students participating in the event:

Sr. No.	Name	Class	Branch	CRN Number	Birth Date
1.	Atharva Ankush Patil	Final Year	Mechanical	2214037825	12/09/2000
2.	Pratik Vikas Chavan	Final Year	Mechanical	2214037828	02/06/2003
3.	Mohamadkaip Shabbir Nadaf	Final Year	Mechanical	2214037885	18/10/2002
4.	Sandip Vitthal Kadam	Third Year	Mechanical	2308037700	06/04/2004
5.	Jay Nitin Karande	Third Year	Mechanical	2208037583	25/03/2004
6.	Prathmesh Ragunath Mali	Third Year	Mechanical	2208037657	21/11/2003
7.	Pratik Suryakat Irale	Third Year	Mechanical	2308037658	20/12/2004
8.	Yash Hanmant Chavan	Second Year	Mechanical	2308038492	03/12/2005
9.	Abhishek Pandurang Aivale	Second Year	Mechanical	2308038555	08/07/2005
10.	Abhijit Tanaji Jadhav	Second Year	Mechanical	2308038427	24/03/2006
11.	Shubham Amol Mirje	Second Year	Mechanical	2308038458	22/10/2004
12.	Shubham Laxman Kapse	Second Year	Mechanical	2308038614	06/10/2004
13.	Premjyot Pramod Landage	Second Year	Mechanical	2308038788	30/01/2004
14.	Akshay Dadasao Patil	Second Year	Mechanical	2308038417	10/11/2005
15.	Yash Hanmant Chavan	Second Year	Mechanical	2308038492	03/12/2005
16.	Aftab Intekhalam Sande	Passed Out	Mechanical	2008036401	30/10/2002
17.	Rahul Bhauso Ambi	Passed Out	Mechanical	2114037469	06/06/2000



A.Y. 2023-24 Page 25 of 27

P.V.P. Karting Club

YEAR 2023-2024

Achievements- Awards & Titles Won in Competitions

Event: FKDC, Season 7

Team Trojan

- Overall Champion
- Endurance and fuel economy winner
- Skidpad winner
- Autocross winner

Event: Edgeline Championship

Team Ashwamegh

- Overall 1st Runner-up
- Endurance Winner
- Autocross Runner-up
- Acceleration- Runner-up
- Design Runner-up

Team Trojan

- Overall 2nd Runner-up
- Autocross Winner
- Acceleration Winner
- Skidpad Runner-up
- Best In-house Built

Event: APEC, Season 4

Team Trojan

- Overall Champion
- Endurance- Winner
- Autocross Winner
- Business -Winner
- Skid-pad -Runner-up

Team Ashwamegh

• Tug of war- Winner

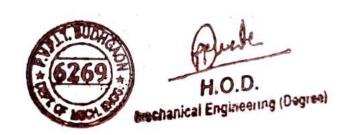




Multiple Awards & Titles won at 'EDGELINE CHAMPIONSHIP'



Crowned as 'CHAMPIONS' at 'ADITYA Pro-Karting Competition'



Participative Learning

It includes the following ways of learning. Proofs of the same are attached below.

1. Lab Manual

Subject Code	Name of Subject	Name of subject teacher
BTECPL306	Electronics Devices & Circuits Lab	Dr. J. A. Shaikh
S.Y. Sem - I	Programming, Data Structure and Algorithm using C	Mr. V. J. Tamboli
	Lab	
BTECPL406	Python Programming Lab	Dr. K. P. Paradeshi
S.Y. Sem – II	Database Management System Lab	Ms. A. S. Bhandare
BTECPL506	Computer Networks and Cloud Computing Lab	Dr. K. P. Paradeshi
T.Y. Sem - I	Competitive Programming Lab	Mrs. T. S. Upadhye
BTECPL606	Internet of Things Lab	Dr. K. K. Pandyaji
T.Y. Sem - II	Artificial Intelligence and Machine Learning Lab	Dr. J. A. Shaikh
BTEXL707	Embedded System Design Lab	Mr. R. D. Patil





PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY, BUDHGAON

INDEX

Sr		Date	Page No.	Remarks
1)	the concept of variable data type and data object in c	21/08/23	01-04	7
2)	Write a code and understand the concept of constructor and relationship	28 08 123	05-08	90
6	Write a code and understand the concept or list in D.s	04/69/23	08 - 13	Ant.
4)	Write a code & understand the concept of queue in p.s	11 09 23	14-22	All I
6>	Write a code and understand concept of array in D.s.	25/09/23	23-27	
6>	Write a code and understand the concept of graph & trees	30 09 23	28-38	(A)
7>	Write a code & understand concept of Hashing, Hash table in 0.5.	09/10/23	39-45	And -
2)	Write a code & understand concept of search algorithm in Ds.	16/10/23	46-49	Au
)	Write a code & understand thoncept of sorting algorithm in OS	30 10 23	50-56	And
	Write a code & understand Concept of algorithm technique on Greed y	20/11/23	57-60	Al

2023

EXPERIMENT NO.1

Title: Write code and understand the concept variable, data type and data object in c.

Aim: To understand the concept variable, data type and data object in c.

What is C?

C is a general-purpose programming language created by Dennis Ritchie at the Bell Laboratories in 1972.

It is a very popular language, despite being old.

C is strongly associated with UNIX, as it was developed to write the UNIX operating system.

Why Learn C?

- · It is one of the most popular programming language in the world
- If you know C, you will have no problem learning other popular programming languages such as Java, Python, C++, C#, etc, as the syntax is similar
- C is very fast, compared to other programming languages, like <u>Java</u> and <u>Python</u>
- C is very versatile; it can be used in both applications and technologies

Difference between C and C++

- C++ was developed as an extension of C, and both languages have almost the same
- The main difference between C and C++ is that C++ support classes and objects, while C does not

#include <stdio.h>

```
int main() {
printf("Hello World!");
return 0;
```

Example

```
int myNum;
```

```
myNum = 15;
```

Note: If you assign a new value to an existing variable, it will overwrite the previous value:

Example

```
int myNum = 15; // myNum is 15

myNum = 10; // Now myNum is 10

Output Variables
```

You learned from the output chapter that you can output values/print text with the printf() function:

Example

```
printf("Hello World!");
```

Data Types

As explained in the Variables chapter, a variable in C must be a specified data type, and you must use a format specifier inside the printf() function to display it:

Example

```
// Create variables
int myNum = 5;  // Integer (whole number)
float myFloatNum = 5.99;  // Floating point number
char myLetter = 'D';  // Character

// Print variables
printf("%d\n", myNum);
printf("%d\n", myFloatNum);
printf("%c\n", myLetter);
```

Explanation of Example

Line 1: #include <stdio.h> is a header file library that lets us work with input and output functions, such as printf() (used in line 4). Header files add functionality to C programs.

Line 2: A blank line. C ignores white space. But we use it to make the code more readable.

Line 3: Another thing that always appear in a C program, is main(). This is called a function. Any code inside its curly brackets {} will be executed.

Line 4: printf() is a function used to output/print text to the screen. In our example it will output "Hello World".

Line 5: return 0 ends the main() function.

Line 6: Do not forget to add the closing curly bracket | to actually end the main function.

Variables are containers for storing data values.

In C, there are different types of variables (defined with different keywords), for example:

- int stores integers (whole numbers), without decimals, such as 123 or -123
- float stores floating point numbers, with decimals, such as 19.99 or -19.99
- char stores single characters, such as 'a' or 'B'. Char values are surrounded by single quotes

Declaring (Creating) Variables

To create a variable, specify the type and assign it a value:

Syntax

type variableName = value;

Where type is one of C types (such as int), and variableName is the name of the variable (such as x or myName). The equal sign is used to assign a value to the variable.

So, to create a variable that should store a number, look at the following example:

Example

Create a variable called myNum of type int and assign the value 15 to it;

int myNum = 15;

You can also declare a variable without assigning the value, and assign the value later:

Page 2 PVPIT, Budhgaon

Basic Data Types

The data type specifies the size and type of information the variable will store.

Data Type	Format Specifier	Size	Description
int	%d or %i	2 or 4 bytes	Stores whole numbers, without decimals
float	%f	4 bytes	Stores fractional numbers, containing one or more decimals. Sufficient for storing 7 decimal digits
double	%lf	8 bytes	Stores fractional numbers, containing one or more decimals. Sufficient for storing 15 decimal digits
char	%с	1 byte	Stores a single character/letter/number, or ASCII values

```
PDA PRACTICAL:1
#include<stdio.h>
int main()
{
    printf("Practical no. 1\n");
    int a = 23;
    printf("The no. you have intered %d\n",a);
    int *p = &a;
    int q = &a;
    printf("%d\n",q);
    printf("p = %p",*p);
    return 0;
}

OUTPUT:

Practical no. 1
The no. you have intered 23
6487568
p = 00000000000000017

Process exited after 0.05456 seconds with return value 0
Press any key to continue . . .
```

2. Seminar presentations

Roll No.	Name of Students	Seminar Topic	Name of Guide
110.	Aditya Sambhaji Babar	DC To AC Inverter Using 555	
	Aditya Samonaji Babai	Timer IC	Dr. A.B. Shinde
2.	Vaishnavi Yuvraj Samane	Smart Voting And Face	Bit I i.B. Similar
	, wastan 1 1 w 1 ag 2 watan 2	Recognisation	Dr. A.B. Shinde
3.	Bhumika Uttam Sankapal	Hydrophonc System	Dr. A.B. Shinde
4.	Unmesh Rajendra Bagal	Sensor Technology	Dr. A.B. Shinde
5.	Arya Parshram Kamble	Intelligent Transport System	Dr. A.B. Shinde
6.	Omkar Sanjaykumar Ghorpade	Wireless Charging	Dr. A.B. Shinde
7.	Tejas Sanjay Patil	Image Sensor	Dr. A.B. Shinde
8.	Sejal Bapuso Patil	Smart Voting And Face Recognisation	Dr. A.B. Shinde
9.	Sarthak Prakash Mali	Image Sensor	Dr. A.B. Shinde
10.	Rugved Satish Sawant	Touch Screen Display	Di. 14.D. Silinde
10.	rtag voa Sanisir Savvani	Technology	Dr. A.B. Shinde
11.	Rohan Subhash Fasale	Touch Screen Display	
		Technology	Dr. A.B. Shinde
12.	Onkar Shanka Shinde	Sensor Technology	Dr. A.B. Shinde
13.	Shreya Sanjay Mahajan	Hydrophonc System	Dr. A.B. Shinde
14.	Sakshi Uttam Abdare	Night Vision Technology	Dr. A.B. Shinde
15.	Ashish Balkrishna Katkar	Preventing Banking Fraud Using AI	Dr. A.B. Shinde
16.	Harshwardhan Deepak More	Preventing Banking Fraud Using	Di. 71.D. Simile
	1	AI	Dr. A.B. Shinde
17.	Satyam Vinayak Pawar	Bioelectronic	Dr. A.B. Shinde
18.	Pratik Prakash Mali	Solar Motor Pump	Dr. A.B. Shinde
19.	Aditya Vijay Halwai	Piezoelectric Motor	Dr. A.B. Shinde
20.	Prathmesh Sanjay Patil	PATH Following And Collision Avoidance Bot Using Ardino	Dr. A.B. Shinde
21.	Shreya Jaysing Shinde	Hologram Technology	Dr. A.B. Shinde
22.	Vishal Shankar Wankar	Path Planning And Navigation	Zi. I i.D. Siiiiide
22.	Visital Sitalikal Walikal	Using AI	Dr. A.B. Shinde
23.	Prathamesh Pravin Patil	Path Planning And Navigation	
		Using AI	Dr. A.B. Shinde
24.	Smita Kishor Patil	Solar Ptcs	Dr. A.B. Shinde
25.	Srushti Shivaji Patil	Hologram Technology	Dr. A.B. Shinde
26.	Sujit Vijay Zambare	Bioelectronic	Dr. A.B. Shinde
27.	Vrushali Ravsaheb Lohar	Solar Ptcs	Dr. A.B. Shinde
28.	Mahamadsaalim Usmanali Bargir	PATH Following And Collision	D . D
20	A U. D. C. G. I	Avoidance Bot Using Ardino	Dr. A.B. Shinde
29.	3	Artificial Passenger	Dr. A.B. Shinde
30.	Varad Vinay Wale	Di 1 M	Dr. A.B. Shinde
31.	Manthan Annaso Bedage	Piezoelectric Motor	Dr. A.B. Shinde
32.	Omkar Ravindra Waydande	Solar Motor Pump	Dr. A.B. Shinde
33.	Devaraj Lakkappa Malame	Network Security	Dr. A.B. Shinde
34.	VishnuShishupal Khot	Dr. A.B. Shinde	

35.	AkshataHemantBansode	Traffic Prediction Using ML	Dr. A.B. Shinde
36.	Archana Sadashiv Khandekar	Traffic Prediction Using ML	Dr. A.B. Shinde
37.	Harshad Ananda Patane	Electronic Payment System	Mr. V.J. Tamboli
38.		Agriculture Using Technology	Mr. V.J. Tamboli
39.	Sahil Rajkumar Katre	Nanotechnology In 3D Printing	Mr. V.J. Tamboli
40.	Mirfika Rizwanahmed Moulvi	Gi FI Technology	Mr. V.J. Tamboli
41.	Shraddha Purushottam Dongare	Swarm Robot	Mr. V.J. Tamboli
42.	Gayatri Ranjeet Dubal	Gi FI Technology	Mr. V.J. Tamboli
43.	Sanika Shankar Patil	Swarm Robot	Mr. V.J. Tamboli
44.	Rohan Jayawant Patil	Submitted By Students	Mr. V.J. Tamboli
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49.	Vishwajeet Shankar More	ARS Creative Side	Mr. V.J. Tamboli
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51.	Dinesh Krishnadev Salunkhe	Paper Battery	Mr. V.J. Tamboli
52.	Prathmesh Amarjeet Yadav	WI- FI Technology	Mr. V.J. Tamboli
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55.	Shreya Ravi Kamble	Battery Less Mobile Phones	Mr. V.J. Tamboli
56.	Riya Gangadhar Devkule	Computer Multitasking	Mr. V.J. Tamboli
57.	Vaishnavi Mohan Bhokare	Battery Less Mobile Phones	Mr. V.J. Tamboli
58.	Snehal Subrao Yadav	Text Encryption Using	M., 371 T1:
59.	Tushar Arun Patil	Cryptographic Algorithm	Mr. V.J. Tamboli Mr. V.J. Tamboli
60.	Balkrushna Sudhakar Tade	Data Visualization	Mr. V.J. Tamboli
61.	Shivani Tatyaso Patil	Smart Door Lock System	Mr. V.J. Tamboli
62.	Siddhi Manoj Patil	Smart Door Lock System Smart Door Lock System	Mr. V.J. Tamboli
63.	Atul Shivling Wale	Data Visualization	Mr. V.J. Tamboli
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66.	Mangesh Nitin Joshi	Biometric	Mr. V.J. Tamboli
67.	Alishabi Ghudulal Shaikh	Data Cleaning In Excel Using	
		Machine Learning	Mr. V.J. Tamboli
68.	Aditya Atul Mahamuni		Mr. V.J. Tamboli
69.	Sakshi Bajirao Patil	HapticTechnology	Mr. V.J. Tamboli
70.	Maheshwari Shrikant Mule	Data Cleaning In Excel Using	
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71.	Sharvani Prakash Mali	Artificial Intelligence Chatbot	Mr. V.J. Tamboli
72.	AryanTanajiDeshmukh		Mr. V.J. Tamboli
73.	Vaishnavi Vitthal Shinde	HapticTechnology	Mr. V.J. Tamboli
74.	Kamble Sakshi Vinod	Computer Multitasking	Mr. V.J. Tamboli
75.	SomaSekhar Gopalrao vuyyuru	Swarm Robot	Mr. V.J. Tamboli
76.	Shruti Sunil More	Artificial Intelligence Chatbot	Mr. V.J. Tamboli
77.	Aditya Sambhaji Babar	DC To AC Inverter Using 555	D . D
		Timer IC	Dr. A.B. Shinde

3. Value-added courses -

Android Programming - Students are motivated for online course.

Course Outline

This module briefs you on this course's agenda and the few prerequisite knowledge that can efficiently help you in app development. You will also get a tad of info on setting up an environment for Android Studio.

Android Studio is the official IDE for Android Application development. In this module, you will go through a complete demo on getting started with Android Studio and understand its various terms. This module consists of a hands-on session on creating the first Android app called Hello World, through which you are moving a step ahead in app development. Random Number Generator Android App

This module is a hands-on session on developing an app called Random Number Generator using Android Studio. This module consists of a hands-on session developing an Android app that adds Two Numbers using Android Studio.

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CERTIFICATE OF COMPLETION

Presented to

Ashutosh Mahindrakar

For successfully completing a free online course Android Application Development

Provided by

Great Learning Academy

(On April 2024)

To verify this certificate visit verify mygreatleaming.com/RNROWUVE

2. Two days workshop on – Internet of Things Assosiation with LogiBit Technologies pvt. Ltd.





Dr. v. P. Shetkari Shikshan Mandal's Padmabhooshan Vasantraodada Patil Institute of Technology, Sangli

Electronics and Computer Science Engineering

Two days workshop on

Node MCU and Raspberry Pi

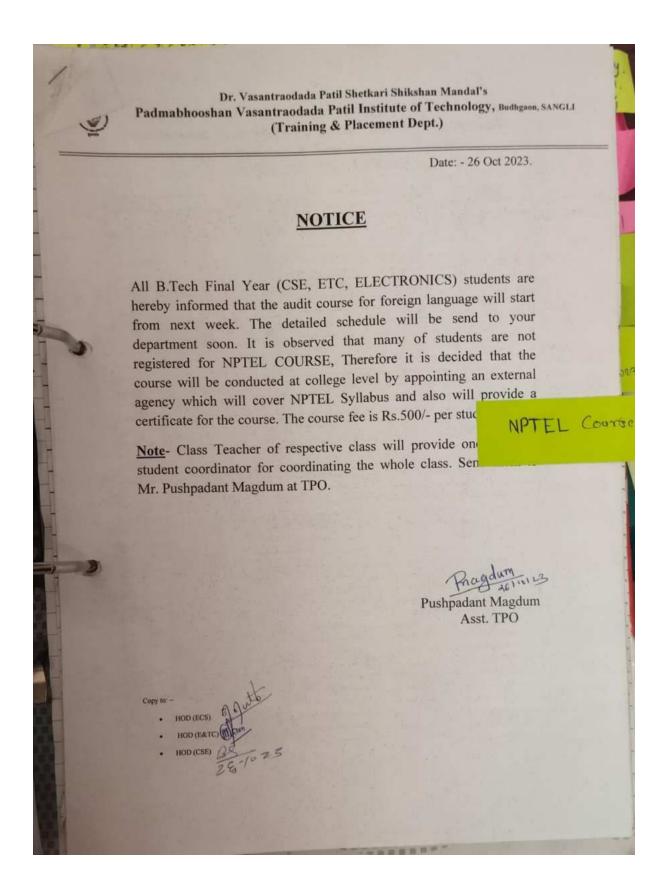
Date: 15th and 16Pth May 2024

Sr. No.	Name of Student	Class	Mobile Number	Sign
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4.		TVRIA	4325276743.	(Rhalen
5.	Akanksha A Jagdale	AND ADDRESS OF THE OWNER, THE PARTY NAMED IN	8412847699	Angetetto
7.			8624831948	@Alvania_
8.	Atharva A Phatak Shreva Rabul Yadav	T. Y Bloth	8625899760	9/14/0
9.	Rutuja Sonjay Mal	T.Y B Tech	9356183553	Psmali.
10.	Rugued & Kalal	T-Y BTOW	7776083140	1000
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12.	Hyshad Umar Shaikh	T. YB. Tech	9322012612	Ho Shaik
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16.	Akshay Balasaheb Patil	1.7.131ech	106491000	brosale.
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4. NPTEL Courses –

Sr. No	PRN	Name of Students	Appeared for NPTEL Exam
			for Foreign Language
1.	1962691376009	Shaikh Numan Zakirhusen	YES
2.	T2062691293012	Yash Ramesh Chavan	YES
3.	T2062691376001	Akash Sanjay Pawaskar	YES
4.	T2062691376002	Ajay Khandu Kumbhar	YES
5.	T2062691376003	Gajanan Govindrao Jadhav	YES
6.	T2062691376004	Komal Sandeep Patil	YES
7.	T2062691376007	Sanika Santosh Mane	YES
8.	T2062691376008	Sarfaraj Mustak Pathan	YES
9.	T2062691376009	Sharwari Sanjay Gaikwad	YES
10.	T2062691376011	Shivani Shivling Sankpal	YES
11.	T2062691376012	Shruti Dayanand Tasgaonkar	YES
12.	T2062691376013	Sneha Dadaso Shinde	YES
13.	T2062691376015	Tanmay Pradip Mankani	YES
14.	T2062691376016	Mohite Vighnaraj Dinkar	YES
15.	T2062691376017	Godase Vrushali Subhash	YES
16.	T2062691376018	Srushti Basavaraj Pachhapure	YES
17.	T2062691376019	Aniket Sanjay Chavan	YES
18.	T2062691376020	Mokashi Parshuram Bhimrao	YES
19.	T2062691376021	Aditya Rajendra Patil	YES
20.	T2062691376022	Pallavi Parashuram Manugade	YES
21.	T2062691376023	Mali Snehal Uday	YES
22.	T2162691376502	Prajyot Prashant Sathaye	YES
23.	T2162691376503	Shraddha Sandeep Deshmukh	YES
24.	T2162691376504	Uzma Miyalal Khatib	YES
25.	T2162691376505	Gauri Sanjay Nakate	YES
26.	T2162691376506	Anjali Pandit Mohite	YES
27.	T2162691376507	Akshay Pandurang Pawar	YES
28.	T2162691376509	Pranali Vishwas Devkule	YES

29.	T2162691376510	Prathamesh Sunil Parit	YES
30.	T2162691376511	Vaibhav Prakash Vibhute	YES
31.	T2162691376512	Aditya Sudhir Waghmare	YES
32.	T2162691376513	Om Milind Dhamanage	YES
33.	T2162691376514	Nilesh Nayan Kulkarni	YES
34.	T2162691376515	Pramod Abhay Alate	YES
35.	T2162691376516	Shounak Shrikant Shirgurkar	YES
36.	T2162691376517	Sakshi Sachin Magdum	YES
37.	T2162691376518	Divya Arun Irale	YES
38.	T2162691376519	Shivratna Ramchandra Patil	YES
39.	T2162691376521	Pruthviraj Chandrakant Mane	YES
40.	T2162691376522	Pranav Tulshiram Kharat	YES
41.	T2162691376523	Harshavardhan Arwind Savant	YES
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43.	T2162691376526	Vidya Ramkrishna Patil	YES
44.	T2162691376527	Pratiksha Suresh Pawar	YES
45.	T2162691376528	Shubham Sambhaji Kadam	YES
46.	T2162691376530	Aditi Narayan Abhyankar	YES
47.	T2162691376532	Harshwardhan Yashwant Chougale	YES
48.	T2162691376533	Tejas Shital Navale	YES
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50.	T2162691376535	Akash Hari Kolekar	YES
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52.	T2162691376537	Pranjali Dattatray Gavade	YES
53.	T2162691376539	Aishwarya Sampatrao Mohite	YES
54.	T2162691376540	Monika Shrikant Mane	YES
55.	T2162691376541	Jainab Firoz Pinjari	YES
56.	T2162691376543	Pratik Ashok Sadare	YES
57.	T2162691376544	Rushikesh Ashok Kadam	YES
58.	T2162691376545	Suhana Mahamud Magdum	YES
59.	T2162691376546	Swapnil Yuvraj Dongare	YES
60.		Dhiraj Manikl Pawar	YES
61.	T2162691376548	Shraddha Ravaso Chougule	YES
62.	T2162691376549	Apruv Atul Kharade	YES
63.	T2162691376550	Supriya Gurappa Mhetre	YES
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- 6. Poster presentation
- 7. Think pair share and role play

Participative Learning

It includes following ways of learning. Proofs of the same are attached below.

- 1. Lab manual
- 2. Seminar presentations
- 3. Value added courses
- 4. NPTEL Courses
- 5. Guest lectures
- 6. Poster presentation
- 7. Think pair share and role play

Lab Manual

Subject – Power Electronics

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APPARATUS EQUIPMENT							

EXPERIMENT NO. 1

Aim: To study V-I characteristics of SCR.

Apparatus: Experimental chassis, multi meter, voltmeter, connecting wires, power supply etc.

Theory:

Thyristor is 3 terminals, 4 layered and 3 junction device. 3 terminals are anode, cathode, and gate. The thyristor has 3 basic mode of operation.

- 1. Forward blocking
- 2. Forward conducting
- 3. Reverse blocking

Operation:

1. Forward blocking:

When the junction at anode voltage is made positive with respect to cathode the junction jt and j3 are forward biased and the junction j2 is reverse biased. Due to reverse biased junction only small leakage is order of several mA. The any resistor is to be said in forward blocking stage or of f state leakage current called forward biased leakage current or off state current.

2. Forward conducting:

With the junction at the anode voltage is made positive with respect to cathode. If the voltage Vak is increased to sufficient large value the reverse bias junction j2 will have break, this is known as avalanche breakdown and the voltage at which it occurs is called forward breakdown voltage.

The junction j1 and j3 are already forward biased hence breakdown of junction j2 three junction result in large forward anode current which is limited by external resistance RL. The thyristor is then said to be in ON state. Once the thyristor

Observation Table 1
Owhen gate current is not connected

VAk	TA
50	0
100	0
150	0
200	0
210	D

When gate supply is added

701 = 17.5mA

TACMA
1
12
18
22
-

TG2 = 18.5

VAC(V)	TACMA)
25	2
50	3
75	10
100	12
125	14
150	18
175	22

Final olp is equal to scale x5

Final olp = scalexs

IG3 = 20 MA

	1
VAK(V)	TACMA)
25	2
50	6
75	8
[a0	12.
125	16
100	18
176	22,

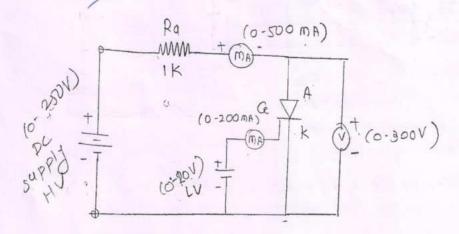
conducts gate current can be reduced to zero. However, immediately after turn ON the anode current must be more than value known as latching current IL.

In order to maintain required amount of carrier flow across the junction in absence of gate current otherwise device will reverse to blocking condition at the anode to cathode voltage as reduced

3. Reverse blocking:

When supply terminals are reverse, so that cathode voltage is positive with respect to anode. The junction J2 is forward biased but junction J1 and J3 are reverse biased. This is like to reverse biased diode connected in series. Due to reversed bias junction only reverse leakage current known as reverse current would be flow through the device and thyristor is said to be in reverse blocking state. If the reverse voltage Vak is increasing to sufficient large value. The breakdown of voltage J1 and J2 will takes place and device will conduct. However this avalanche breakdown would be destructive and therefore device is normally operated in reverse blocking mode.

CIRCUIT DIAGRAM:



	2%		qo	TI	
Am		SME			

T03=207 S 100 mA	(APT)		BAV
PROCEDURE:			
1. Make the connections as po	er circuit diagram.		00
Adjust the gate current as p Switch on anode-cathode,	per certain value	ase the voltage in step	
down from 0 to 100 volt.	011		

- 4. Note down Vs, Vak and Ia for each reading.
 - 5. Tabulate the reading.
- 6. Repeat above procedure for another value of gate current.
 - 7. Plot the graph of Vak and Ia.

PRECAUTIONS:

- 1. Select SCR gate current and voltage with a proper range.
- 2. Connections should be proper.

OBSERVATION TABLE:

Conclusion- we there conclude that we have studied VI Characteristics of sck and we have observed that VDI >VBI and Tg3 > Ig2 > Tg1

O Final ofp = scale xs FG1 = 17.5 x 5MA = 87.5 mA

VAE	scalexs	CMA)
50	1×5	2
100	12 X S	60
150	1875	90
180	22X5	110

TG2=18.5x 5=92.5 mA

VAK	scale X5	CMA)
25	2.8.5	10
50	EXT	30
75	8×2	40
100	12X5	60
125	16×2	80
150	18X5	90/
170	22X5	110

· specification of scr

max current = 300 A

max voltage = 1200V

Reliable operating Temperature = 125°C

FG3 = 20x 5 = 100 mA

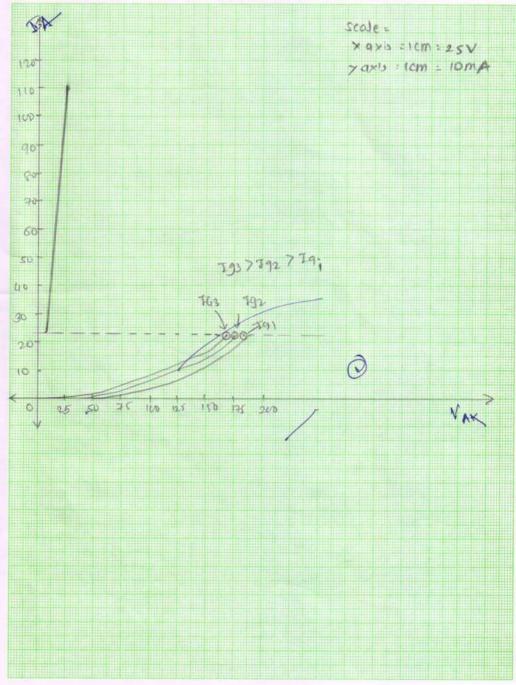
VAF	scale x5	CMA)
25	2X5	10
50	6X2	30
75	3X5	40
100	12×5	80
125	16×5	80
150	18x5	90
170	225	110

frequency = 1 kH2 no tout abulance and and



PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY, BUDHGAON

Title : SCR YI Scale- X axis Y axis



Guest Lectures

Sr. No.	Topic	Guest Name	No. of	Date
			students	
1	Career Guidance	Mr. Arvin Patil	55	27/09/2023
		(McDermott ME Inc		
		Dubai)		
2	Electrical Design & Drafting using	Mr. Ansar Mulani (M/s	50	(On working Saturdays
	AutoCAD	EPSIT Enterprises,		of Sept & Oct)
		Sangli)		
3	Circuit simulation using Proteus &	Mr. Shardul Karandikar	52	14/10/2023
	PCB Design	(Fine Circuits, Sangli)		
4	Career options for an Electrical	Mr. Milind Chapekar	31	21/05/2024
	Engineers	(Diaspora Innovations		
		Pvt. Ltd. Nagpur)		

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DEPARTMENT OF ELECTRICAL ENGINEERING

In Association with

ATIONS PVT LTD, NAGPUR

ORGANISES A SEMINAR ON

CAREER OPTIONS FOR AN ELECTRICAL ENGINEER

Speaker



MILIND CHAPEKAR

Founder & CEO, Diaspora Innovations Pvt Ltd



ON TUESDAY, 21 MAY 2024

STARTS AT 06:30 PM

KEY TOPICS

- Higher Studies in Abroad and India
- Private Jobs in IT and Core
- Govt./PSU Jobs Preparation Strategies
- Impact of AI in Job Selection

PROF. S. S. PATIL

Co-ordinator Asst. Professor, Electrical Department PROF. DR. L. S.



DR. B. S.

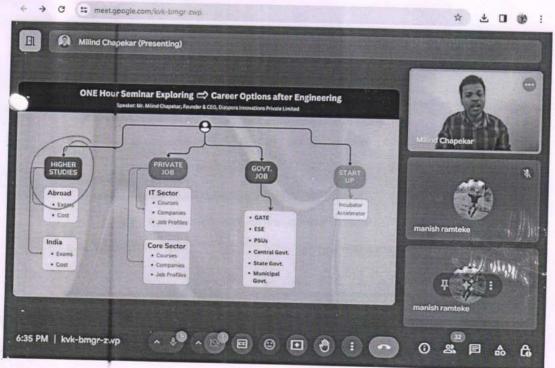
Dept of Electrical & Comp. Engg. Organiser P.V.P.I.T. Budhgaon Principal

Electrical Department

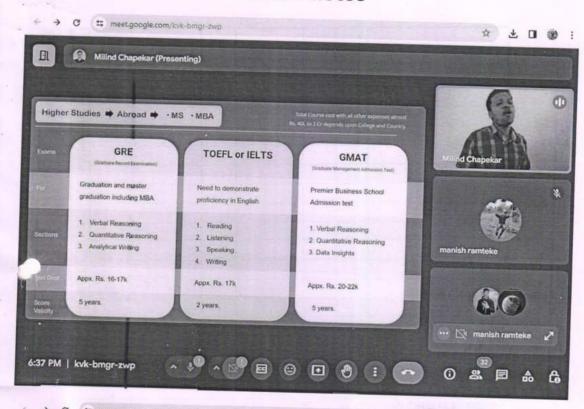
PVPIT, Budhgaon

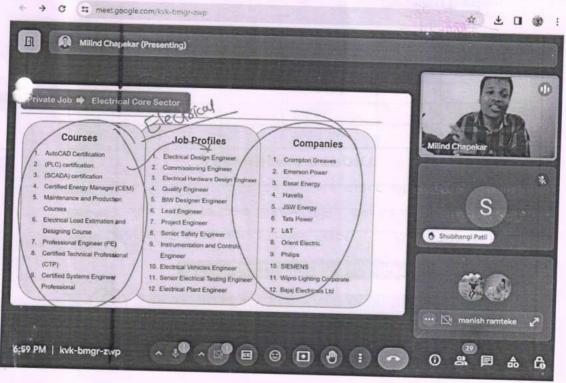
Event Photos





Event Photos





NPTEL Courses

Sr. No.	Name of Student	Name of Course	Year
1.	ATHARV VIVEK RAJMANE	German-I	2023-24
2.	SHRAVAN LALASO HATTIKAR	German-I	2023-24
3.	SOURABH RAMRAO PATIL	German-I	2023-24
4.	TANMAY TAVANAPPA VADGAVE	German-I	2023-24
5.	SATYAJEET PANDURANG PATIL	German-I	2023-24
6.	SANKET SUHAS PATIL	German-I	2023-24
7.	ABDUSSAMAD SALIM NADAF	German-I	2023-24
8.	NIKITA ANANDRAO PATIL	German-I	2023-24
9.	SHREYA MANJI SALUNKHE	German-I	2023-24
10.	SAKSHI UDAY PATIL	German-I	2023-24
11.	DADASO HANMANT HONMANE	German-I	2023-24
12.	SHREYAS SANTOSH KULKARNI	German-I	2023-24
13.	VIVEK RAJENDRA JADHAV	German-I	2023-24
14.	RITESH DEVIDAS LONARE	German-I	2023-24
15.	KAJAL SHASHIKANT JADHAV	German-I	2023-24
16.	AKASH SHASHIKANT SONAWANE	German-I	2023-24
17.	SOURABHA RAGHUNANDAN MANE	German-I	2023-24
18.	ONKAR PRAKASH HAKE	German-I	2023-24
19.	GIRISH BELKAR	German-I	2023-24
20.	TASMIYA FIROJKHAN MULLA	German-I	2023-24
21.	PRATHMESH SUBHASH INGALE	German-I	2023-24
22.	SAKSHI DATTATRAY VIDHATE	German-I	2023-24
23.	PRATHMESH SHASHIKANT TASHILDAR	German-I	2023-24
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27.	SHIVRAJ JAGANNATH TOPKAR	German-I	2023-24
28.	ABHISHEK SUNIL VADAVANE	German-I	2023-24
29.	NISHANT BHARAT PATIL	German-I	2023-24
30.	SHUBHAM SUNIL NIMBALKAR	German-I	2023-24
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32.	PRATHMESH PRAMOD VASUDEV	German-I	2023-24
33.	ARPITA RAMESH JAMDADE	German-I	2023-24
34.	HARSHAVARDHAN ANANDA KADAM	German-I	2023-24
35.		Introduction to Industry 4.0 and	2023-24
	ASHITOSH RAMESH AWALKAR	Industrial Internet of Things	
36.		Introduction to Industry 4.0 and	2023-24
	AKASH GANAPATI DUDHAL	Industrial Internet of Things	
37.		Introduction to Industry 4.0 and	2023-24
20	BENJIR MOULA MUJAWAR	Industrial Internet of Things	2022.21
38.	VA IGIDI ANI ANTENNA I CHICAGO	Introduction to Industry 4.0 and	2023-24
20	VAISHNAVI VITTHAL CHOUGULE	Industrial Internet of Things	2022.24
39.	CATVAUT ADUAL MAALL	Introduction to Industry 4.0 and	2023-24
40	SATYAJIT ARUN MALI	Industrial Internet of Things	2022.24
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	62.		-	2023-24
63. Introduction to Industry 4.0 and 2023-24		OMKAR HINDURAO SURYAVANSHI	1	
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AVANTIKA RANJEET CHAVAN Industrial Internet of Things		AVANTIKA RANJEET CHAVAN		
64. Introduction to Industry 4.0 and 2023-24	64.		Introduction to Industry 4.0 and	2023-24
AVANTIKA VITTHAL JADHAV Industrial Internet of Things		AVANTIKA VITTHAL JADHAV	Industrial Internet of Things	
65. Introduction to Industry 4.0 and 2023-24	65.		Introduction to Industry 4.0 and	2023-24
PRANAV SANJAY ROKADE Industrial Internet of Things		PRANAV SANJAY ROKADE	Industrial Internet of Things	
66. Introduction to Industry 4.0 and 2023-24	66.		Introduction to Industry 4.0 and	2023-24
YASH GAJANAN MANE Industrial Internet of Things		YASH GAJANAN MANE	-	

67.		Introduction to Industry 4.0 and	2023-24
	RUTUJA MANOHAR PATIL	Industrial Internet of Things	
68.		Introduction to Industry 4.0 and	2023-24
	AJIT VISHWAS BHOSALE	Industrial Internet of Things	
69.		Introduction to Industry 4.0 and	2023-24
	SAKSHI BALU JAMBHALE	Industrial Internet of Things	
70.		Introduction to Industry 4.0 and	2023-24
	VAISHNAVI MANIK BHOSALE	Industrial Internet of Things	
71.		Introduction to Industry 4.0 and	2023-24
	PRITI CHOUGULE	Industrial Internet of Things	
72.		Introduction to Industry 4.0 and	2023-24
	SAKSHI NEMGONDA PATIL	Industrial Internet of Things	
73.		Introduction to Industry 4.0 and	2023-24
	PRERANA MOHAN KANASE	Industrial Internet of Things	
74.		Introduction to Industry 4.0 and	2023-24
	SWAPNIL CHANDRAKANT KADAM	Industrial Internet of Things	
75.		Introduction to Industry 4.0 and	2023-24
	ABHISHEK UDAY KOLI	Industrial Internet of Things	
76.		Introduction to Industry 4.0 and	2023-24
	MUSKAN JAVED ATTAR	Industrial Internet of Things	
77.		Introduction to Industry 4.0 and	2023-24
	BALAJI BHASKAR YADAV	Industrial Internet of Things	
78.		Introduction to Industry 4.0 and	2023-24
	AVADHUT ANNASO BEDAGE	Industrial Internet of Things	
79.		Introduction to Industry 4.0 and	2023-24
	SHIVTEJ RAJENDRA MAGDUM	Industrial Internet of Things	
80.		Introduction to Industry 4.0 and	2023-24
	SUYASH BAJIRAO PATIL	Industrial Internet of Things	
81.	YASH MILIND PATIL	Entrepreneurship Essentials	2023-24
82.	SUFIYAN GOUS KHATIB	Entrepreneurship Essentials	2023-24
83.	MAHAMED S. N. ALI SHIKALGAR	Entrepreneurship Essentials	2023-24
84.	SUHAIL MULLA	Entrepreneurship Essentials	2023-24









MARKSHEET

Name: ATHRAV VIVEK RAJMANE

DOB: 08-09-2003

			Ma	rks	Total		
Discipline	Year	Course Name	Assignment (25%)	Exam (75%)	Marks (100%)	Status	Performance
HS	2024	German - I	18.41	25.88	44		
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Dept of Electrical & Comp.Engg. P.V.P.I.T. Budhgaon

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PROF. ANDREW THANGARAJ
NPTEL COORDINATOR
IIT MADRAS

ID	DEPARTMENT NAME	
AE	Aerospace Engineering	10 TO
AG	Agriculture	
AR	Architecture	
BT	Biotechnology	
CH	Chemical Engineering	
CY	Chemistry and Biochemistry	
CE	Civil Engineering	
CS	Computer Science and Engineering	
EE	Electrical Engineering	
EC	Electronics & Communication Engineering	
ED	Engineering Design	
BT	General	
HS	Humanities and Social Sciences	
LW	Law	
MG	Management	
MA	Mathematics	
ME	Mechanical Engineering	
MM	Metallurgy and Material Science	
MM	Mining Engineering	
GE	Multidisciplinary	
DE	Ocean Engineering	
H	Physics	
S	Special Lecture Series	
E	Textile Engineering	

Total Mark	
>=90	
75-89	
>=60	

Performance
Elite + Gold
Elite + Silver
Elite



NPTEL Online Certification (Funded by the MoE, Govt. of India)

(1)

This certificate is awarded to

YASH MILIND PATIL

for successfully completing the course

Entrepreneurship Essentials

52 with a consolidated score of

%

Online Assignments | 20.91/25 | Proctored Exam | 30.93/75

Total number of candidates certified in this course: 2100

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Dept of Electrical & Comp.Engg. H.O.D.

P.V.P.I.T. Budhgaon

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerji Coordinator, NPTEL IIT Kharagpur

Money



Indian Institute of Technology Kharagpur

Roll No: NPTEL24GE15S366300341





No. of credits recommended: 3 or 4



NPTEL Online Certification (Funded by the MoE, Govt. of India)



This certificate is awarded to

AKASH GANAPATI DUDHAL

for successfully completing the course

Introduction to Industry 4.0 and Industrial

Internet of Things

with a consolidated score of

%

34.5/75	
Proctored Exam	
23.72/25	
Online Assignments	

Total number of candidates certified in this course: 10498



H.O.D.

Dept of Electrical & Comp.Engg. P.V.P.I.T. Budhgaon

Jan-Apr 2024

(12 week course)

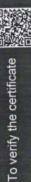






Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS34S666300156



No. of credits recommended: 3 or 4

Seminar Presentation

Sr. No.	Name of Student	Class	Seminar Title
1.	Sumit chandrakant gaikwad	SY BTech	3D printing
2.	Riddhi Paresh Parekh	SY BTech	Smart Grid Technology
3.	Sejal Shashikant Nalawade	SY BTech	Thermal Image System
4.	Piyush Pramod Vankhande	SY BTech	Micro Power Generator
5.	Karan Mansinghrao More	SY BTech	Sensor Technology
6.	Vinayak kallappa singammanaver	SY BTech	Cognitive Radio Network
7.	Tejas kishor jadhav	SY BTech	Energy harvesting techniques
8.	Aishwarya Santosh Zende	SY BTech	Wireless Electricity
9.	Vishakha Vijay Patankar	SY BTech	Insulator
10.	Varsha Nandkumar Limbale	SY BTech	Digital Signal Processing
11.	Prathana Popat Patil	SY BTech	Al Technology In Power System
12.	Omkar Prakash Jambhale	SY BTech	Augmented reality
13.	Chopade Pallavi Ratilal	SY BTech	Artificial intelligence of Power station
14.	Prathmesh Vijay Deshmukh	SY BTech	Air monitoring system in smart cities
15.	Priyanka aabaso patil	SY BTech	Deep learning in health care
16.	Athary Dhondiram Nalwade	SY BTech	Battery
17.	Tejasvi Manohar Babar	SY BTech	Al Based System Induction Motor
18.	Sonika Deepak Vedpathak	SY BTech	Cloud Computing
19.	Guruprasad Prashant Chougule	SY BTech	Radial Feeder Protection
20.	Prathmesh Rajkumar Patil	SY BTech	Wireless Charging for Electric Vehicles
21.	Nishil Bhavesh Kanjiya	SY BTech	Biometric fingerprint technology
22.	Mayuri Hanmantrao Patil	SY BTech	5 g tecnology
23.	Sutar Aditya Bhaskar	SY BTech	Underground Transmission Lines
24.	Aditya Appasaheb Lavand	SY BTech	Angular (Web development)
25.	Suraj Bhupal Ghorpade	SY BTech	DIGILOCKER
26.	Tejas Vivek Kulkarni	SY BTech	Antivirus
27.	Apeksha Dinesh Daware	SY BTech	Wind energy
28.	Aditya Dinesh Mane	SY BTech	Wireless Usb
29.	Pallavi Vasant Bandgar	SY BTech	Electric Traction System
30.	Sumit Gautam bhale	SY BTech	Communication
31.	Swati Mahadev Gadikar	SY BTech	AUTO CAD
32.	Prathmesh Ashok Mohite	SY BTech	Piezoelectric Motor
33.	Karan Rameshchandra Pandit	SY BTech	Roof Top Solar Energy

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34.	Anushka Mohan Kadam	SY BTech	3D printing
35.	Vrushali Tukaram koli	SY BTech	Importance of strong password and authentication in cyber security
36.	Varad Rajendra Suryawanshi	SY BTech	Solar Cell
37.	Dubal Mayuri Sanjay	SY BTech	Touchless Touchscreen Technology
38.	Pranil Popat Kamble	SY BTech	Battery
39.	Vardhaman Subhash Sajane	SY BTech	Power Generation Systems
40.	Rushikesh Popat Chavan	SY BTech	5g wireless technology
41.	Prachi Mohan Savale	SY BTech	Metamorphic Robots
42.	Komal Duryodhan Narale	SY BTech	Electrical Protective Devices
43.	Prashant Santosh Thote	SY BTech	Smart energy meter
44.	Samiya nashir shaikh	SY BTech	Robotics & application
45.	Sagar Pramod kole	SY BTech	Image processing in machine learning
46.	Sakshi vijay ghatage	SY BTech	Machine learning
47.	Varad Vinay Suryawanshi	SY BTech	Hybrid technology
48.	Atul Arun Deshmukh	SY BTech	Electrical power transmission and distribution
49.	Shubham Dattatray jamdade	SY BTech	Modern Trends in Machine Design Technology
50.	Rohan Ashok Lad	SY BTech	Street light monitoring using IoT
51.	Vaibhav Vilas Pawar	SY BTech	Smart Grid Technology
52.	Harshwardhan vijay sadakale	SY BTech	electrical vehicle
53.	Pawar Pradnya Raosaheb	SY BTech	Electrical relay
54.	Ganesh uttam patil	SY BTech	Electric vehicle
55.	Vivek Vijay Gavali	SY BTech	3D printing
56.	Rohit Balasaheb Sargar	SY BTech	5G Technology
57.	Suryakant Tanaji Mane	SY BTech	Artificial intelligence in power system
58.	Vishakha Vijay Patankar	SY BTech	Insulators
59.	Shrutika pandurang sathe	SY BTech	Artificial Intelligence
60.	Mahesh Mahadev Dudhal	SY BTech	Renewable Energy Source
61.	Tasmiya Firojkhan Mulla	TY BTech	Intelligent substation
62.	Basaveshwar Vitthalrao Vanjire	TY BTech	Sensor Technology
63.	Shweta Vijay Sonavane	TY BTech	Electric Traction System
64.	Shreyas Santosh Kulkarni	TY BTech	5G Technology
65.	Divya Nitin Mane	TY BTech	SCADA in distribution system
66.	Dhairyashil Dattajirao Dubal	TY BTech	Wind Mill.
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120.	Shubhamraje Sunil Nimbalkar	TY BTech	Superconductivity



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Department of Electrical Engineering

CERTIFICATE

This is to certify that the seminar report entitled

HVDC TECHNOLOGY

submitted by

Aditi Uday Jagtap

(3045)

of T. Y. B. Tech Electrical Engineering to Dr. BABASAHEB AMBEDKAR
TECHNOLOGICAL UNIVERSITY, LONERE, is a seminar work carried out by
her.

Prof. S.A.Patil

Guide

(Electrical Department)

Pro S.Patil

Head of Department

Prof. B.S.Patil

Principal

Date: 05/02/2024

Student Notice

An add-on course on topic "Entrepreneurship and Project Report Writing." is scheduled /crafted for chemical engineering students that involve writing project reports for small scale businesses (production/manufacturing). Interested third Year Students (SEM II) are requested to register for this Add On course which will be conducted only on working Saturdays (in extra hours 10 am to 12am and 1 Pm to 3 Pm). Students should read the brochure of course. The course will start from 10/02/2024. A certificate will be issued to the successful student.

Head

Department of Chemical Engineering



Brochure

Working Saturday 10 AM - 12 PM 1 PM- 3 PM Department of Chemical Engg

About course

Project Report Components

- MSME industry
- Project Description
- Project Costing
- Project Progress
- · Risks and Risk Management
- Budget
- Timelines
- · Team Performance

By Dr S B Pawar

Entrepreneurship and Project Report Writing

What is a project report?
A project report is a
document created for a
team or company that
ensures a project feasibility
and business operation

Register Before 10/02/2024

PVP Institute of Technology, Budhgaon Sangli



Add-on Course on

Entrepreneurship and Project Report Writing

TY chemical Engineering Students

Year 2023-2024

Course Outcome

After competing this course, you will be able to:

- Understand various entrepreneurship opportunities
- Understand various schemes supporting entrepreneurship
- Understand small scale business and its working
- Write project report

Time and Venue

Every Working Saturday

At Chemical Engineering Department, PVPIT Sangli

Outline (Lecture wise, 2 hr per lecture + 2 hr Hands-on calculations)

Duration: February 2024 To May 2024

Add-on Course on

Entrepreneurship and Project Report Writing.

TY chemical Engineering Students

Year 2023-2024

Syllabus

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- 1. What is a project report?
- 2. Why is a project report important?
- 3. A Complete Guide to Project Reports
- 4. When to write a project status report?
- 5. How to write a Project Report in 7 Steps
- 6. What to include in a project status report?
- 7. Project Report Examples
- 8. Project Report Components
- 9. Small Scale Production of Following Products
 - Ayurveda Medicine Formulations
 - Ball Pen Ink
 - Drying and value addition of agriculture products
 - Detergent Powder and Cake
 - Disposable Syringes
 - Sugar Globules
 - Ethanol plant
 - Extraction of essential oil
 - Processing of ginger
 - Processing of grapes
 - And many more......

Text Books:

- 1. Dr. Gupta and Dr. Srinivasan, Entrepreneurship development in India
- 2. Vasant Desai, Dynamics of Entrepreneurial Development and Management
- 3. Sarugadharan and Resia Begum, Women Entrepreneurship; institutional support and problems
- 4. M.W.Deshpande, Entrepreneurship of small Scale Industries
- 5. D.L. Saxon and RW Smilor (eds), The Art and Science of Entrepreneurs

Reference Books:

- 1. Venkateshwara Rao and Udai Pareek, (Eds) Developing Entrepreneurship-A Handbook
- 2. Raja Gopal, Agriculture Business and Entrepreneurship
- 3. H.Sadhak, industrial development in Backward Regions in India
- 4. Ravi J. Mathai, Rural Entrepreneurship A Frame Work in Development Entrepreneurship AHandbook

Links

https://my.msme.gov.in/MyMsmeMob/MsmeProjectProfile/Home.htm

https://www.dcmsme.gov.in/publications/pmryprof/vol6.htm

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PVPIT Sangli



DR S B PAWAR Coordinator

DR S L BHAGAT

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PVPIT Sangli

DR S L BHAGAT



DR S B PAWAR Coordinator







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Indian Institute of Technology Guwahati





Dr. Vasantdada Patil Shetkari Shikshan Mandal's

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon-416 304.



Department of Electronics & Telecommunication Engineering

Laboratory Manual

ANALOG COMMUNICATION ENGINEERING

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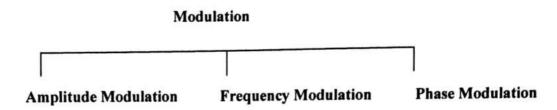
Title: Study of Amplitude Modulation and demodulation.

Objective: To perform the experiment on amplitude modulation and demodulation techniques, take appropriate readings and observe input and output waveforms on CRO

Apparatus: Experimental Kit, connecting cords, CRO

Theory : Modulation is the process of converting low frequency signal to high frequency so that it can be transmitted over a long distance.

We have three basic types of modulations



Modulation is defined as the process by which some characteristics of a carrier signal is varied in accordance with a modulating signal. The base band signal is referred to as the modulating signal and the output of the modulation process is called as the modulation signal.

Amplitude modulation is defined as the process in which is the amplitude of the carrier wave is varied about a means values linearly with the base band signal. The envelope of the modulating wave has the same shape as the base band signal provided the following two requirements are satisfied

- (1) The carrier frequency fc must be much greater than the highest frequency components fm of the message signal m (t)
- i.e. fc >>fm
- (2) The modulation index must be less than unity. If the modulation index is greater than unity, the carrier wave becomes over modulated.

The value of Modulation index is approx. calculated as Em / Ec where carrier amplitude is always greater than original amplitude. Hence Ma is < 1.

Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon (Sangli)



CERTIFICATE

Crified that this Report is submitted by

Shri	Anuja	suryakan	t Shinde	_ Roll No	09
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2023	-2024	as a part of syllai	bus prescribed by	the M.S. Boa	ord of Technical
Educati	on, Mumba	for the subject :			
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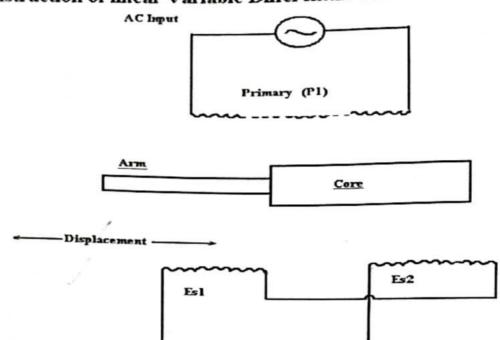
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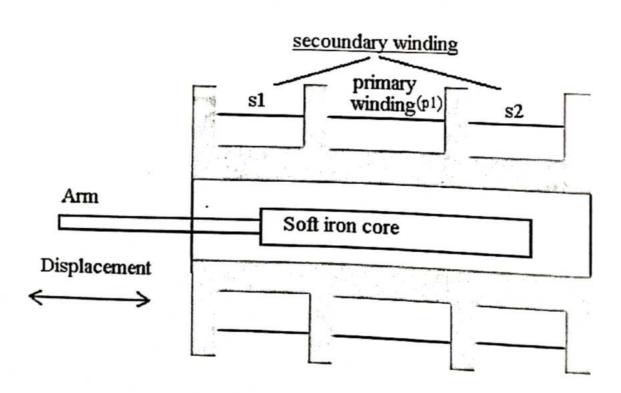
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Section 1				
7				

Study of Linear Variable Differential Transformer.

Construction of linear Variable Differentail Transformer





TITLE:-

Linear Variable Differential Transformer.

AIM:-

To study linear displacement using L.V.D.T.

APPARATUS:-

Digital tutor, L.V.D.T etc.

THEORY:-

One of the most useful variable inductance transducer is the differential transformer, which provides an a.c. voltage output proportional to the displacement of the core passing through the winding. L.V.D.T is very widely used transducer for conversion of mechanical displacement into proportional electrical voltage. The displacement into proportional electrical voltage range extends for few microns to few tens of inches.

CONSTRUCTION:-

The transformer consist of a single primary winding P1 and two secondary windings S1 and S2 wound on a hollow cylindrical former. The secondary windings have equal number of turns and are identically placed on either side of the primary windings. The primary windings is connected to an ac source.

An moveable soft iron core slides within the hollow former and therefore affects the magnetic coupling between the primary and the two secondary. The displacement to be measured is applied to an arm attached to the soft iron core.

WORKING:-

The output voltage of the secondary winding S1 is Es1 and that of S2 is Es2. In order to convert the output from S1 to S2 into a single voltage signal, the secondaries S1 and S2 are connected in series opposition. Hence the output voltage of the transducer is the difference of the two voltages. Therefore the differential output voltage is given by,

Eo = Es1 - Es2

When the core is at its normal position, the flux linking with both secondary windings is equal, and hence equal emfs are induced in them. Hence at null position Es1=Es2. Since the output voltage of the transducer is the difference of the two voltages, the output voltage Eo is at null position.

Now, if the core is moved to the left of the Null position, more flux links with winding s1 and less with winding s2. Hence, output voltage of the secondary winding s1 is greater than Es2. The magnitude of the output voltage of the secondary is then Es1-Es2, in phase with Es1.

Similarly, if the core is moved to the right of the null position, the flux linking with winding s2 becomes greater than that linked with winding s1. This result in Es2 becoming larger than Es1. The output voltage in this case is Eo=Es2-Es1 and is in phase with Es2.

The amount of voltage change in either secondary winding is proportional to the amount of movement of the core. Hence we have an indication of the amount of the linear motion. The output ac voltage inverts as the core passes the centre position. The farther the core moves from the centre, the greater difference in the value between Es1 and Es2 and consequently the greater the value of Eo. Hence, the amplitude is the function of the distance the core has moved, and the polarity or phase indicates the direction of the motion.

ADVANTAGES:-

- ⇒ The output voltage is practically linear for displacement upto 5mm.
- ⇒ The effective resolution depends more on the test equipment than on the transducer.
- □ It gives high output.
- The transducer possesses a sensitivity as high as 40 V/mm.
- These transducer can usually tolerate a high degree of vibration and shocks.
- □ It has low hystersis, hence repeatability is excellent under all condition.
- It consumes less than 1W of power.

DISADVANTAGES:-

- □ Large displacement are required for appreciable differential output.
- ⇒ They are sensitive to stray magnetic fields.
- ⇒ Temperature also affect the transducer.

PROCEDURE:-

- 1] Connect the terminals marked "Primary" on the front panel of the instrument to the terminals marked "Primary" on the transducer itself, with the help of the flexible wires provided alongwith
- 2] Identically establish connection from terminals marked "Secondary".

3] Keep pot marked "Max" in most anticlockwise position.

- 4] The magnetic core may be displaced and the pointer may be brought to zero position. If the DPM is not indicating zero use pot marked "Min" to get a zero on the DPM at zero mechanical position. If the core displaced in both the directions, the meter must show indications with appropriate polarity. Now displace the core to 19 mm position in one of the directions. Adjust the "Max" pot to get an indication of 19.00 on the DPM under these conditions. Now the set up is ready for experimentation. You may again check for zero position also.
- 5] Now the core can be displaced by a known amount in the range +19 and -19 mm and the meter readings can be entered in the table given below. It may be noted that by interchanging the secondary terminals the polarity of the meter indication can be reversed for a given direction of input displacement.

6] Plot the graph of the input displacement and the output indications on the X and Y axis resp.

CONCLUSION:-

It is concluded that ,the output voltage of the LVDT is a linear function of the core displacement

end

Observation table

SR.NO	INPUT DISPLACEMNT	OUT DISPLACEMENT
1.	0.0 CM	
2.	0.5 CM	
3.	1.0 CM	
4.	1.5 CM	
5.	2.0 CM	