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Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
Phone No. 020-67335102 **website**: www.icoer.in **Email**- principal.imperial2016@gmail.com

PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R.S. DESHPANDE
PRINCIPAL

Criterion – II: Teaching Learning & Evaluation

2.3 Teaching Learning Process:

Participative learning

Learning Method	Evidence Documents
Participative Learning	Flipped Class room
	Project Based learning
	MOOC/ NPTEL Courses
	Newsletter/ Magazine

DESHPANDE RAJKUMAR SHRIDHAR
Digitally signed by DESHPANDE RAJKUMAR SHRIDHAR
Date: 2022.12.22 15:22:43 +05'30'

Flipped Class room

Fig. Students enjoying innovative teaching

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PRINCIPAL

Project Based Learning

JSPM'S

Imperial College of Engineering and Research, Wagholi, Pune

First Year Engineering Department,

Sub-Project Based Learning 2021-2022

Faculty Allotment List

Sr.No	Name of Faculty	DIV.	Batch
1	Prof.Kadagaonkar J.s.	A	A1
		F	F1
2	Prof. Meshram A.C.	A	A2, A3
3	Prof. Jadhav M.S.	B	B1, B3
		E	E1
4	Prof.Wagh V.Y.	E	E3
5	Prof. Khadake C.N.	B	B2
		F	F2
6	Prof. Dandge R.G.	E	E2
		F	F3

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Imperial College of Engineering & Research
Wagholi, Pune-412207.

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Imperial College of Engineering and Research, Wagholi, Pune

First Year Engineering Department,

Sub-Project Based Learning 2021-2022

Project List

Sr.No	DIV.	Batch	No. of student in Group	Name of student	Name of PBL project/ Problem	Faculty
1	A	A1	5	AMAN RAJJAK SAYYAD	A case study on Humanoid Robot	Mr. J S Kadagaonkar
2				DADHE PRATIK LAHU		
3				DARADE SHAHADEV KAKASAHEB		
4				BANSODE YASH PRAKASH		
5				AHER SHWETA LAXMAN	Creat a quiz game with Python	
6	A	A1	3	ARYA PRADEEP SHENDE		
7				CHAKTE SAMIKSHA NITIN		
8				DHUMAL VAISHNAVI DHONDIRAM		
9	A	A1	5	DEOTE TUSHAR JAYANT	Case study- The fall of Srilankan Economy	
10				BHONDAVE ATHARVA HARISH		
11				BOBADE MANAV DEEPAK		
12				BORDE ADITYA BHAGWAN		
13				BADAVE NARSINH MAHESH		
14	A	A1	5	HARUGADE RUSHIKESH UTTAM	Case Study- Drawsiness Detection System	
15				GARGOTE ADITYA SARJERAO		
16				GIRI HARSHAL MAHENDRA		
17				INAMDAR TANBIR MUJID		
18				GAJARE BALAJI UTTAM		
19	A	A1	1	JADHAV ABHISHEK NARAYAN	Case Study- Solid Waste Management	
20	A	A1	1	BIRAJDAR SHUBHAM UMESH	Wireless Power Transmission through Tesla Coil	
21	A	A1		INGLE TEJAS BALASAHEB	Cancelled	
1	A	A2	4	JAWALE GAURAV AVINASH	The Study of Microwave Commuinication System	Mrs. A. C. Meshram
2				KULKARNI SAGAR GANESH		
3				PATIL ABHIJIT PRABHAKAR		
4				KUMBHAR AMIT DATTATRAY		
1	A	A2	5	NALKAR SIDDHANT MACCHINDRA	Case Study Apple Inc. & iPhone's Success	
2				NANDURKAR OM MAHENDRA		
3				PATIL JYOTIRADITYA DEEPAKRAO		
4				KARAD DHANANJAY ANKUSH		
5				KHAN AYUB IMTIYAZ		
1	A	A2	5	JEJURKAR SHRAVANI SANTOSH	Water Detector Alarm	
2				KASAR ROHAN SUNIL		
3				KIRTI KAILAS PAGAR		
4				KRISHNAGOUDAR SHRADDHA GURU		
5				KSHIRSAGAR SIDDHI BABASAHEB		

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1	A	A2	4	KOLHE PRANAV SANJAY	Rain Detector	Mrs.A.C.Meshram
2				MANDLE OANKARKISAN		
3				MISAL TEJAS RAJENDRA		
4				MOHITE KARAN KHANDU		
1	A	A2	5	PAWAR HARSH PARAMESHWAR	Earthquake Sensing Alarm System	
2				PAWAR YOGESH KUBER		
3				SHETTY VISHAL PRAKASH		
4				WADGAONKAR MANSI RAVINDRA		
5				ZAMBARE ANJALI UMESH		
1	A	A3	3	SANGAR ASHUTOSH SANTOSH	A Case Study on : Electric Vehicle	
2				TAGAD ROHIT SAMPAT		
3				WAGH GANESH RAVINDRA		
1	A	A3	5	SHAIKH NOORBANO MOHAMMAD K	A Case Study on : Internet of Things	
2				SHINDE GAYATRI DADASAHEB		
3				SHINGNE ABHISHEK GOKUL		
4				SUNNY KUMAR		
5				SURYAWANSHI VIVEK SUDARSHAN		
1	A	A3	3	SHERE SAYALI SUKHDEV	Chandelier Using E-Waste	
2				TAMBE ADINATH RAJESHWAR		
3				SHINDE ABHIJEET VIJAY		
1	A	A3	4	PATIL GAURAV RAJENDRAKUMAR	Flame Detection	
2				SHINDE NIKHIL JARICHANDRA		
3				SURYAWANSHI SOMNATH BALAJI		
4				TALKE YASH BAJARANG		
1	A	A3	4	MOHITE PRANAV MOHAN	A Gym portal developed by coding	
2				MESHRAM SAMRUDDHI ASHOKKUM		
3				JADHAV ANANDI PRABHU		
4				JADHAV NEHA SUBHASH		
1	B	B1	5	GAIKWAD SHUBHAM BHARAT	Magnetic Door Alarm	Ms. M. S. Jadhav
2				GAMBHIRE AVINASH BHIMRAO		
3				GAWANDE ANIRUDDHA PRAMOD		
4				GEDAM PRANAY VINOD		
5				GIRHE DIVYA RAJKUMAR		
6	B	B1	5	GUJAR ADITI MAHESH	Laser Security System	
7				GURUDE SADANAND BALKRUSHNA		
8				INGALE VISHAL SATISH		
9				ITKALKAR SANIKA SHAILESHRAO		
10				JAMDADE AVINASH SOPAN		
11	B	B1	5	JANHVI PRASHANT DESHMUKH	Student database management	
12				KEDAR CHAITANYA SUBHASH		
13				KHURANA UMANG MAHESH		
14				KUMBHAR ADARSH BASLING		
15				LAGAD SAGAR BAPUSAHEB		
16	B	B1	5	LOMATE AKASH ASHOK	Hotel Mangement System	
17				MOHIT SANJAY WAT		
18				MORE ANIKET TANAJI		
19				MORE SAGAR RAOSAHEB		
20				PATIL PRANAV RANJEET		

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1	B	B2	5	GIRHE DIVYA RAJKUMAR	Soil Moisture Sensor	
2				GUJAR ADITI MAHESH		
3				ITKALKAR SANIKA SHAILESHRAO		
4				NAVALE OMKAR RAMESH		
5				NIMBALKAR ADITYA SUNIL		
1	B	B2	5	GEDAM PRANAY VINOD	College Campus Renovation	
2				GURUDE SADANAND BALKRUSHNA		
3				JAMDADE AVINASH SOPAN		
4				MORE SAGAR RAOSAHEB		
5				PATIL PRANAV RANJEET		
1	B	B2	4	GAMBHIRE AVINASH BHIMRAO	Cable Fault Detector	Mr.C.N. Khadake
2				JANHVI PRASHANT DESHMUKH		
3				KUMBHAR ADARSH BASLING		
4				MOHIT SANJAY WAT		
1	B	B2	4	GAWANDE ANIRUDDHA PRAMOD	Mini Calculator	
2				KHURANA UMANG MAHESH		
3				MORE ANIKET TANAJI		
4				NAVALE VISHAL SAINATH		
1	B	B2	4	INGALE VISHAL SATISH	Virtual Augmented & Mixed Reality	
2				KEDAR CHAITANYA SUBHASH		
3				LAGAD SAGAR BAPUSAHEB		
4				LOMATE AKASH ASHOK		
11	B	B3	5	SINGH SATYAM	Java Programming	Ms. M. S. Jadhav
12				SONMALI ONKAR ANAND		
13				SURYAWANSHI ANIKET FULCHAND		
14				SURYAWANSHI SANDHYARANI SHIV		
15				TAMBE NIKITA SURYAKANT		
16	B	B3	5	TIWARI ANKUSH GANESH	Smart Water Plating	
17				VAYKAR DNYANESHWAR NAVNATH		
18				VIBHAVARI CHOURASIA		
19				VETHEKAR VITTHAL DNYANDEV		
20				WAIKAR ADITYA SACHIN		
1	E	E1	5	CHAFALE SHANTANU SHRIKRUSHNA	Security door bell	Ms. M. S. Jadhav
2				CHAYAITYANYA CANDAN SOLANKI		
3				CHETANTA A. Udhan		
4				DAKE GANESH SANJAY		
5				DAKHORE HEMANT KAILASH		
6	E	E1	5	VINOD SUBHASH JOGDAND	Tick Tac Toe game	
7				AKASH BABAN DOUND		
8				ANIKET BALIRAM KOKATE		
9				ANUSHKA DINESH KALE		
10				ARIHANT SHRIRAM BHAMARE		
11	E	E1	5	AYAGOLE POOJA VISHNU	Smart Water Plating	
12				BARDE RUTIK BALIRAM		
13				BHANDARE PRITI VIJAY		
14				BHANSALI SHIVAM MADAN		
15				BHONDAVE PRANIL GOPICHAND		
16	E	E1	5	DHIMDHIME ADITYA SATISH	Student data base mangement	
17				DHULSHETTE SHIVHAR BALAJI		
18				FADTARE TUSHAR SANJAY		
19				GADADE SAKSHI RAMESH		
20				GADE SUYASH SANJAY		

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1	E	E2	5	GADLING ROUNAK PRAVIN	Laser Security System	Ms. R. G. Dandage
2				INGOLE ROHIT DILDAR		
3				KAKADE NIKHIL SHASHIKANT		
4				KALE ADITYA AMBIKA		
5				MANE KAUSTUBH SUNIL		
6	E	E2	5	GAURAV YOGESH SONAVNE	Movies Recommendation System Using Python	
7				GAVATE VAISHNAVI SUDHIR		
8				GHODESWAR TANUSHRI SHRIKANT		
9				PATIL SAKSHI DEEPAK		
10				PAWAR SAKSHI JITENDRA		
11	E	E2	6	JADHAV SIDDHESH CHANDRAKANT	Line Follower Robot	
12				JADHAV YASH SUDHAKAR		
13				JAISWAR AMAN CHANDRASHEKARA		
14				KAKDE SAURABH SANJAY		
15				KHAN URUJKHAN FEROJKHAN		
16				MUTUKUNDU SHREERAM SRINIVAS		
17	E	E2	5	KADAM SUMIT SANTOSH	Earthquake Detector	
18				KALE ABHIJEET RAJENDRA		
19				LONDHE GAJANAN CHANDRAKANT		
20				NANEKAR ATHARVA SURYAJI		
21				PACHPUTE ADITYA ASHOKRAO		
1	E	E3	5	PAWAR SWAPNIL PRABHAKAR	Magnetic Door Alarm	Mrs. V.Y.WAGH
2				YADAV GANESH DATTATRAY		
3				SABALE SHUBHAM KISAN		
4				RAHOD RAMESHWAR GARDAL		
5				SANAP SHRINIVAS RAJENDRA		
6	E	E3	6	SAWANT AISHWARYA AJAY	Automatic Watering System	
7				TAMBE SAKSHI RATIKANT		
8				POKHARKAR SAHIL SOMNATH		
9				PISE AJAY BABURAO		
10				PAWAR SAKSHI JITENDRA		
11				ROTHE VAISHNAVI SUDESH		
12	E	E3	5	RODE KAUSHAL KISAN	Simple Clap Switch	
13				WAGADARE PRANAV SANTOSH		
14				SHAIKH UZAIR SHAIKH MUMTAZ		
15				SAYYED AFWAN RAFIK		
16				SANAP SUHAS NAVNATH		
17	E	E3	5	TEKADE SAMRUDDHI ANIL	Hotel Management system documention project using Python	
18				VIKAS KUMAR		
19				WAGHMARE KRANTI KALAPPA		
20				NAVALE SAKSHI SANJAY		
21				VISHWAKARMA SOURABH MADAN		

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1	F	F1	5	DHABE ANUSHKA KISHOR	Cloud Computing as Green Computing	Mr. J S Kadagaonkar
2				KADAM VEDANTI PRAVIN		
3				ATPADKAR NIKHIL PRAKASH		
4				BIRADAR SHUBHAM SHIRISHRAO		
5				BHOSALE SIDDHESH BALASAHEB		
6	F	F1	4	CHILWANT RAGHAV CHAKRADHAR	Financial Literacy	
7				CHOPDE VYANKATESH MAROTI		
8				KALE VEDANT SUHAS		
9				KHANDEKAR OM SAHEBRAO		
10	F	F1	6	BADE PRAJWAL JAGANNATH	A case study on Radiation Effects on Animals & Birds	
11				BARAYYA ARMAN RAJKUMAR		
12				GAHINE SHREEDHAR BHARAT		
13				Gundre Shivprasad Venkat		
14				HULLE SHREYASH DATTATRAY		
15				KASHIDE JIVAK GAUTAM		
16	F	F1	6	AUSEKAR ROHIT GANGADHAR	To do List with Advance Features	
17				AWAGHADE ANURAG MANOHAR		
18				BAILE PRATIK VIJAYKUMAR		
19				BHOKARE RUTURAJ SATISH		
20				KALE CHEAN SANTOSH		
21				KAWASE VIDHI PRASHANT		
1	F	F2	5	KOLHATKAR KARAN SHIVAJI	Earthquake Detector	Mr. C.N. Khadake
2				MADANE SHUBHAM DILIP		
3				MUSNE RUSHIKESH BALAJI		
4				NAGAPURE SARVESH ARUN		
5				PARDESHI RITESH SUDHAKAR		
1	F	F2	5	MANGRULE RUSHIKESH BALAJI	Drousiness Detection System	
2				SONAWANE SHIVAM RAJARAM		
3				POTPHODE OMKAR NAVNATH		
4				PRATIK VASANTt NAGARGOJE		
5				RITESH RAJENDRA JADHAV		
1	F	F2	4	MISAL VAISHALI SANJAY	Advanced Construction Materials	
2				PATIL SAMRUDDHI RAMJI		
3				PRAPTI PANKAJ BARGIRE		
4				SAIKIRAN JAYPRAKASH ANKASKAR		
1	F	F2	4	KHARAT GAURAV SUNIL	School Management System	
2				LOMATE YOGESH BABASAHEB		
3				PATIL ATHARVA PRADIP		
4				RASKAR SHIVAM SAVATA		
1	F	F2	4	KOLHE NIKHIL DILIP	Tesla Coil	
2				MHETRE SAMARTH SANTOSH		
3				NISHANT CHANDANDAS ADE		
4				ONKAR MHAMANE		

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JSPM's IMPERIAL COLLEGE OF ENGINEERING & RESEARCH , WAGHOLI , PUNE

COLLEGE CODE : 4051

Examinations, May-2022

FE SEM II

2021-22 MAY

Batch- E3

SR. NO.	Roll No.	Exam Seat N	Name of the Students	Project Title	Idea Inception(5)	Problem defining	Material/Data Collection	Introduction of Project	Defining principle/hypothesis	Progress of Project Design	Result with Conclusion	Application	Demonstration	Report Submission	TOTAL MARKS OUT OF 50
1	F07545	F190510182	PAWAR SWAPNIL PRABHAKAR	Magnetic Door Alarm	5	5	5	4	4	5	4	5	4	5	46
2	F07562	F190510276	YADAV GANESH DATTATRAY		5	5	4	5	4	5	4	5	4	5	46
3	F07551	F190510196	SABALE SHUBHAM KISAN		4	5	4	5	4	4	4	5	5	4	44
4	F07548	F190510191	RAHOD RAMESHWAR GARDAL		5	5	4	5	4	5	4	5	4	5	46
5	F07552	F190510203	SANAP SHRINIVAS RAJENDRA		4	4	4	4	4	4	4	3	4	3	38
6	F07554	F190510214	SAWANT AISHWARYA AJAY		5	5	4	5	4	5	4	5	4	5	46
7	F07557	F190510199	Tambe Sakshi Ratikant	Automatic Watering System	4	5	4	5	4	5	4	4	4	4	43
8	F07547	F190510184	POKHARKAR SAHIL SOMNATH		4	5	4	5	4	4	4	5	4	5	44
9	F07546	F190510009	PISE AJAY BABURAO		4	5	4	5	4	5	4	5	4	5	45
10	F07544	F190510180	PAWAR SAKSHI JITENDRA		4	5	4	5	4	5	4	4	4	4	43
11	F07550	F190510194	ROTHE VAISHNAVI SUDESH		4	4	4	4	4	4	4	4	4	4	43
12	F07549	F190510193	RODE KAUSHAL KISAN	Simple Clap Switch	4	5	4	5	4	4	4	4	4	4	40
13	F07560	F190510268	WAGADARE PRANAV SANTOSH		4	5	4	4	4	4	4	4	4	4	42
14	F07556	F190510218	SHAIKH UZAIR SHAIKH MUMTAZ		5	3	4	4	4	4	4	4	4	4	41
15	F07555	F190510215	SAYYED AFWAN RAFIK		3	4	3	4	4	3	4	3	5	4	40
16	F07553	F190510204	SANAP SUHAS NAVNATH		5	5	4	5	5	4	5	4	3	4	35
17	F07558	F190510201	TEKADE SAMRUDDHI ANIL		4	3	3	4	3	4	3	4	4	5	46
18	F07559	F190510264	Vikas Kumar	Hotel Management system documention project using Python	4	5	4	5	4	4	4	5	4	3	35
19	F07561	F190510270	WAGHMARE KRANTI KALAPPA		5	5	4	5	4	5	4	5	4	5	44
20	F07563	F190510162	NAVALE SAKSHI SANJAY		5	5	4	5	4	5	4	5	4	5	46
21	F07564	F190510266	VISHWAKARMA SOURABH MADA		5	5	4	5	4	5	4	5	4	5	46

Project Mentor

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JSPM's IMPERIAL COLLEGE OF ENGINEERING & RESEARCH , WAGHOLI , PUNE

COLLEGE CODE : 4051 Examinations, May-2022

FE SEM II 2021-22 MAY

Batch- E3

SR.NO.	Roll No.	Exam Seat Number	Name of the Students	Title of Project	Weekly Documentation(12)	Report(13)	PBL TW (25
1	F07545	F190510182	PAWAR SWAPNIL PRABHAKAR	Magnetic Door Alarm	12	12	24
2	F07562	F190510276	YADAV GANESH DATTATRAY		12	12	24
3	F07551	F190510196	SABALE SHUBHAM KISAN		10	11	21
4	F07548	F190510191	RAHOD RAMESHWAR GARDAL		12	12	24
5	F07552	F190510203	SANAP SHRINIVAS RAJENDRA		7	10	17
6	F07554	F190510214	SAWANT AISHWARYA AJAY	Automatic Watering System	11	11	22
7	F07557	F190510199	Tambe Sakshi Ratikant		10	9	19
8	F07547	F190510184	POKHARKAR SAHIL SOMNATH		10	10	20
9	F07546	F190510009	PISE AJAY BABURAO		12	12	24
10	F07544	F190510180	PAWAR SAKSHI JITENDRA		10	9	19
11	F07550	F190510194	ROTHE VAISHNAVI SUDESH		10	9	19
12	F07549	F190510193	RODE KAUSHAL KISAN	Simple Clap Switch	10	8	18
13	F07560	F190510268	WAGADARE PRANAV SANTOSH		10	10	20
14	F07556	F190510218	SHAIKH UZAIR SHAIKH MUMTAZ		10	8	18
15	F07555	F190510215	SAYYED AFWAN RAFIK		10	8	18
16	F07553	F190510204	SANAP SUHAS NAVNATH		10	5	15
17	F07558	F190510201	TEKADE SAMRUDDHI ANIL	Hotel Management system documention project using Python	12	12	24
18	F07559	F190510264	Vikas Kumar		10	8	18
19	F07561	F190510270	WAGHMARE KRANTI KALAPPA		10	12	22
20	F07563	F190510162	NAVALE SAKSHI SANJAY		12	12	24
21	F07564	F190510266	VISHWAKARMA SOURABH MADAN		11	12	23

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Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Instruction for students and Rubrics for PBL

1. Each student has to spend 4hrs/week for PBL, out of this the teaching workload is load of 2Hrs/week/batch needs to be considered for the faculty involved and remaining 2Hrs/week/batch needs to use by student to compile work as per the guideline by faculty.
2. Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the student per batch.
3. The batch needs to be divided into sub-groups of 5 to 6 students.
4. Assignment / activities / models / projects etc. under project based learning is carried throughout semester and credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester.

Rubrics for PBL in semester Assessment

Mark distribution for PBL project (50 Marks)

Sr.no	Name of rubric		Total Mark	
1	Group formation and problem statement finalization		10M	
2	Attendance , Regular reporting, Timely completion and progress of project		10M	
3	Project Design, implementation and testing		30M	
	a) Design (Block diagram / circuit diagram, / Algorithm / design calculation / CAD model)	10M		
	b) Manufacturing (component assembly / writing / code / circuit boards / simulation)	10M		
	c) Testing and results 1. Demonstration / presentation -----5M 2. Report in paper format ----------5M	10M		

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Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.: - F07545, 62, 51, 48, 52.

Batch – E3		Project Title :- Magnetic Door Alarm				
Name of Group: Group-I						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	21/04/22	5	5	Pawar.
2	Problem defining	2nd April	28/04/22	5	5	Pawar.
3	Material / Data Collection /	1st may	05/05/22	5	5	Pawar.
4	Introduction of Project	2nd may	12/05/22	5	4	Pawar.
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	3rd may	19/05/22	5	4	Pawar.
6	Progress of project Design / Modeling / Survey Data Analysis etc	1st June	02/06/22	5	5	Pawar.
7	Result with Conclusion	1st June.	02/06/22	5	4	Pawar.
8	Application	2nd June	09/06/22	5	5	Pawar.
9	Demonstration / Presentation/ User Interface / Usability	2nd June	09/06/22	5	4	Pawar.
10	Report Submission Compiling with all point with Photo	2nd June	09/06/22	5	5	Pawar.
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology					

Name and Signature of Student

1. Swapnil Pawar (F07545)
2. Ganesh Yadav (F07562)
3. Shubham Sabale (F07551)
4. Rameshwar Rathod (F07548)
5. Shrinivas Sanap (F07552)
6. —

Name of Signature of Project Mentor Pawar.

Mrs. V.Y. Wagh

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune- 412207.

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

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Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207

Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 54, 57, 47, 45, 44, 50.

Batch – Group-2 E3		Project Title :- Automatic Watering system for plants.				
Name of Group: Group - 2						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	21/04/22	5	5	Wagh.
2	Problem defining	2nd April	28/04/22	5	5	Wagh.
3	Material / Data Collection /	1st may	05/05/22	5	4	Wagh.
4	Introduction of Project	2nd may	12/05/22	5	5	Wagh.
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	3rd may	19/05/22	5	4	Wagh.
6	Progress of project Design / Modeling / Survey Data Analysis etc	1st June	02/06/22	5	5	Wagh.
7	Result with Conclusion	1st June	02/06/22	5	4	Wagh.
8	Application	2nd June	09/06/22	5	5	Wagh.
9	Demonstration / Presentation/ User Interface / Usability	2nd June	09/06/22	5	4	Wagh.
10	Report Submission Compiling with all point with Photo	2nd June	09/06/22	5	5	Wagh.
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology					

Name and Signature of Student

1. Aishwarya Sawant (F07554)
2. Sakshi Tambe (F07557)
3. Sahil Pokharkar (F07547)
4. Ajay Pise (F07546)
5. Sakshi Pawar (F07544)
6. Vaishnavi Rothe (F07550)

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune- 412207.

Name of Signature of Project Mentor

Wagh.

Mrs. V. Y. Wagh.

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 49, 50, 56, 55, 53.

Batch – E3 | Project Title :- Simple clap switch

Name of Group: Group-3

Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	21/04/22	5	4	Nagh.
2	Problem defining	2nd April	28/04/22	5	5	Nagh.
3	Material / Data Collection /	1st may	05/05/22	5	4	Nagh.
4	Introduction of Project	2nd may	12/05/22	5	5	Nagh.
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	3rd may	19/05/22	5	4	Nagh.
6	Progress of project Design / Modeling / Survey Data Analysis etc	1st June	02/06/22	5	4	Nagh.
7	Result with Conclusion	1st June	02/06/22	5	4	Nagh.
8	Application	2nd June	09/06/22	5	4	Nagh.
9	Demonstration / Presentation/ User Interface / Usability	2nd June	09/06/22	5	4	Nagh.
10	Report Submission Compiling with all point with Photo	2nd June	09/06/22	5	4	Nagh.
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology					

Name and Signature of Student

1. Kaushal Rode (F07549)
2. Pranav Wagadare (F07550)
3. Uzair Shaikh (F07556)
4. Afwan Sayyed (F07555)
5. Suhas Sanap (F07553)
6.

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

Name of Signature of Project Mentor

Nagh.

Mrs. V.Y. Wagh

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 58, 59, 61, 63, 64.

Batch – E3

Project Title :- "Hotel Management system Documentation Project using Python"

Name of Group: Group -4

Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	21/04/22	5	5	Wagh
2	Problem defining	2nd April	28/04/22	5	5	Wagh
3	Material / Data Collection /	1st may	05/05/22	5	4	Wagh
4	Introduction of Project	2nd may	12/05/22	5	5	Wagh
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	3rd may	19/05/22	5	5	Wagh
6	Progress of project Design / Modeling / Survey Data Analysis etc	1st June	02/06/22	5	4	Wagh
7	Result with Conclusion	1st June	02/06/22	5	5	Wagh
8	Application	2nd June	09/06/22	5	4	Wagh
9	Demonstration / Presentation/ User Interface / Usability	2nd June	09/06/22	5	4	Wagh
10	Report Submission Compiling with all point with Photo	2nd June	09/06/22	5	5	Wagh
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology					

Name and Signature of Student

1. Tekade Samruddhi (F07558)
2. Vikas Kumar (F07559)
3. Waghmar Kranti (F07561)
4. Mavale Sakshi (F07563)
5. Vishwakarma Sourabh (F07564)
6.

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207

Name of Signature of Project Mentor

Wagh

Mrs. V. Y. Wagh

JSPM's IMPERIAL COLLEGE OF ENGINEERING & RESEARCH , WAGHOLI , PUNE

Examinations, May-2022

COLLEGE CODE : 4051

A.Y. -2021-22

FE- SEM II **Sub- Project Based Learning** **Batch-E1**

Sr. No	Roll No.	Exam Seat Number	Name of the Students	Idea Inception	Problem defining	Material/Data Collection	Introduction of Project	Defining principle/hypot	Progress of Project Design	Result with Conclusion	Application	Demonst	Report Submission	TOTAL MARKS OUT OF 50
1	F07501	F190510107	VINOD SUBHASH JOGDAND	4.5	4.5	4.5	4.5	4	4	4	4	4	4	42
2	F07502	F190510010	AKASH BABAN DOUND	4	4	4	4	4	4	4	4	4	4	40
3	F07503	F190510013	ANIKET BALIRAM KOKATE	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
4	F07504	F190510113	ANUSHKA DINESH KALE	4.5	4.5	4.5	4.5	4	4	4	4	4	4	42
5	F07505	F190510035	ARIHANT SHRIRAM BHAMARE	4.5	4.5	4.5	4.5	4	4	4	4	4	4	42
6	F07506	F190510021	AYAGOLE POOJA VISHNU	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4	4	44
7	F07507	F190510030	BARDE RUTIK BALIRAM	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
8	F07508	F190510036	BHANDARE PRITI VIJAY	3.5	3.5	3.5	3.5	4	4	3.5	3.5	3.5	3.5	36
9	F07509	F190510037	BHANSALI SHIVAM MADAN	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
10	F07510	F190510041	BHONDAVE PRANIL GOPICHAND	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
11	F07511	F190510221	CHAFALE SHANTANU SHRIKRUSHNA	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	36
12	F07512	F190510238	Chaitanya Chandrabhan Solanke	4	4	4	4	4	4	4	4	4	4	40
13	F07513	F190510258	Chetan Arjun Udhan	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
14	F07514	F190510057	DAKE GANESH SANJAY	4	4	4	4	4	4	4	4	3.5	3.5	39
15	F07515	F190510058	DAKHORE HEMANT KAILASH	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	36
16	F07516	F190510066	DHASE TANMAY TUSHAR	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
17	F07517	F190510067	DHIMDHIME ADITYA SATISH	4	4	4	4	4	4	4	4	4	4	40
18	F07518	F190510069	DHULSHETTE SHIVHAR BALAJI	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
19	F07519	F190510257	FADTARE TUSHAR SANJAY	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
20	F07520	F190510197	GADADE SAKSHI RAMESH	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38
21	F07521	F190510073	GADE SUYASH SANJAY	4.5	4.5	4	4	4	4	3.5	3.5	3.5	3.5	39

Faculty Incharge

HoD

First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune - 412207

JSPM's IMPERIAL COLLEGE OF ENGINEERING & RESEARCH , WAGHOLI , PUNE

Examinations, May-2022

COLLEGE CODE : 4051

FE- SEM II | Sub- Project Based Learning | Batch-B3 | A.Y. -2021-22

Sr.No	Roll No.	Exam Seat Number	PBL PR (50)	Idea Inception	Problem defining	Material/Data Collection	Introduction of Project	Defining principle/hypot	Progress of Project Design	Result with Conclusion	Application	Demonst	Report Submission	TOTAL MARKS OUT OF 50
F07243	F190510166	NIMBALKAR ADITYA SUNIL	4	4	4.5	4.5	4	4	4	4	4	4	41	78
F07244	F190510170	PANDIT AARYAN ARVIND	4.5	4.5	4.5	4.5	4	4	4.5	4.5	4.5	4.5	44	83.5
F07245	F190510177	PAWALE HARSHADA SANJAY	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07246	F190510179	PAWAR ROHAN ARUN	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	35	66.5
F07247	F190510181	PAWAR SUNNY TANAJI	4.5	4.5	4.5	4.5	4	4	4.5	4.5	4.5	4.5	44	83.5
F07248	F190510205	SANGA ANKUSH MADHUKAR	4.5	4.5	4.5	4.5	4	4	4.5	4.5	4.5	4.5	44	83.5
F07249	F190510213	Savalajkar Sanika Sanjay	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	35	66.5
F07250	F190510216	Shaikh Adiba Haroon	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38	72
F07251	F190510222	SHEMBADE BALAJI TAYAPPA	4.5	4.5	4.5	4.5	4	4	4.5	4.5	4.5	4.5	44	83.5
F07252	F190510063	SHRUTI BHUJANG DESHPANDE	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07253	F190510212	Singh Satyam	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07254	F190510242	SONMALI ONKAR ANAND	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	35	66.5
F07255	F190510246	SURYAWANSHI ANIKET FULCHAND	4	4	4	4	4	4	4	4	4	4	40	76
F07256	F190510247	SURYAWANSHI SANDHYARANI SHIV	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	36	68
F07257	F190510254	TAMBE NIKITA SURYAKANT	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07258	F190510256	TIWARI ANKUSH GANESH	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07259	F190510259	VAYKAR DNYANESHWAR NAVNATH	4	4	4	4	4	4	4	4	4	4	40	76
F07260	F190510262	VIBHAVARI CHOURASIA	5	5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	46	87
F07261	F190510261	VETHEKAR VITTHAL DNYANDEV	4	4	4	4	4	4	4	4	4	4	40	76
F07262	F190510273	WAIKAR ADITYA SACHIN	4	4	4	4	4	4	4	4	4	4	40	76
F07263	F190510050	Yash Dipak Chavan	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	36	68
F07264	F190510167	Nirphal Amol	4	4	4	4	4	4	3.5	3.5	3.5	3.5	38	
F07265	F190510059	AASTHA RAJU DANDEKAR	4	4	4	4	4	4	4	4	4	4	40	

Faculty Incharge

HoD OD

First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

(Approved by AICTE, Delhi & Govt. Of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207
Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 14, 1, 2, 5, 7, 15

Batch – E1		Project Title :- Python Programming (Tic tac Toe game)				
Name of Group:						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st May	20/04/22	5	4.5	
2	Problem defining	2nd May	27/4/22	5	4	
3	Material / Data Collection /	2nd May	04/05/22	5	4.5	
4	Introduction of Project	2nd May	11/5/22	5	4.5	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	2nd May	18/05/22	5	4.	
6	Progress of project Design / Modeling / Survey Data Analysis etc	3rd May	25/5/22	5	3	
7	Result with Conclusion	1st June	1/6/22	5	4	
8	Application	1st June	1/6/22	5	4	
9	Demonstration / Presentation/ User Interface / Usability	1st June	8/6/22	5	4	
10	Report Submission Compiling with all point with Photo	2nd June	15/6/22	5	3	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology	2nd June	15/6/22	5	4	

Name and Signature of Student

1. Ganesh Mule
2. Vinod. Jogdand
3. Akash Daund
4. Arihant Bhamare
5.
6. Hemant Dakhore

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

Name of Signature of Project Mentor

Madhavi Jadhav

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

(Approved by AICTE, Delhi & Govt. Of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207
Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 9, 8, 20, 6

Batch – E1 | Project Title :- Student Data base Mngement System

Name of Group:

Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	2nd April	20/4/22	5	4	
2	Problem defining	3rd April	27/4/22	5	4.5	
3	Material / Data Collection /	1st May	04/05/22	5	4	
4	Introduction of Project	2nd May	11/05/22	5	4	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	2nd May	18/05/22	5	4	
6	Progress of project Design / Modeling / Survey Data Analysis etc	3rd May	25/5/22	5	4	
7	Result with Conclusion	1st June	1/06/22	5	4	
8	Application	2nd June	8/06/22	5	4	
9	Demonstration / Presentation/ User Interface / Usability	2nd June	8/6/22	5	4.5	
10	Report Submission Compiling with all point with Photo	3rd June	15/06	5	4.3	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology	3rd June	15/6/22			

Name and Signature of Student

1. Shivam Basali
2. Priti Bhandare
3. Sakshi Gadde
4. Pooja Ayagor
5.
6.

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

Name of Signature of Project Mentor Madhavi Tadhar

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

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Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207

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Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 12, 18, 16, 17, 3, 21

Batch – E1		Project Title :- Smart water Planting System				
Name of Group:						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	20/4/22	5	4.5	
2	Problem defining	2nd April	20/4/22	5	4.5	
3	Material / Data Collection /	3rd April	27/4/22	5	4.5	
4	Introduction of Project	3rd April	27/4/22	5	4.5	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	1st May	04/5/22	5	4	
6	Progress of project Design / Modeling / Survey Data Analysis etc	2nd May	11/5/22	5	4	
7	Result with Conclusion	2nd May	11/5/22	5	4.5	
8	Application		11/5/22	5	4.5	
9	Demonstration / Presentation/ User Interface / Usability		18/5/22	5	4.5	
10	Report Submission Compiling with all point with Photo		25/5/22	5	4.5	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology					

Name and Signature of Student

1. Chaitanya Solankhe
2. Shivhar Dhulshette
3. Tanmay Dhase
4. Aditya Dhimdhime
5. Aniket Kokate
6. Suyash Bade

Name of Signature of Project Mentor Madhavi Jadhav

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

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Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207
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Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

ivision – A / B / E / F

Roll No.:- (11, 10, 19, 13)

Batch – E1

Project Title :- Security door bell

Name of Group:

Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	20/4/22	5	5	
2	Problem defining	2nd April	20/4/22	5	5	
3	Material / Data Collection /	2nd April	27/4/22	5	4.5	
4	Introduction of Project	2nd April	27/4/22	5	4.5	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram	4 May	04/5/22	5	4.5	
6	Progress of project Design / Modeling / Survey Data Analysis etc	5th May	11/5/22	5	4.5	
7	Result with Conclusion	5th May	11/5/22	5	4.5	
8	Application	6th May	18/5/22	5	4.5	
9	Demonstration / Presentation/ User Interface / Usability	6th May	25/5/22	5	5	
10	Report Submission Compiling with all point with Photo	7th June	01/06/22	5	4.5	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology	7th June	15/6/22	5	4.5	

Name and Signature of Student

1. Shantanu Chafle
2. Pranil
3. Tushar
4. Chaitanya Udhan
5.
6.

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

Name of Signature of Project Mentor

Madhavi Jadhav

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

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Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 2, 8, 10, 19

Batch – B1		Project Title :- Earthquake Detector				
Name of Group:						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection	1st April	8/4	5	5	
2	Problem defining	3rd April	22/4	5	5	
3	Material / Data Collection /	3rd April	29/4	5	4.5	
4	Introduction of Project		06/5	5	4.5	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram		13/5	5	4.5	
6	Progress of project Design / Modeling / Survey Data Analysis etc		20/5	5	4.5	
7	Result with Conclusion		27/5	5	4.5	
8	Application		3/6	5	4.5	
9	Demonstration / Presentation/ User Interface / Usability		10/6	5	4.5	
10	Report Submission Compiling with all point with Photo		17/6	5	4.5	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology				4.5	

Name and Signature of Student

1. Shantanu Agarkar
2. Chaitnya Bandal
3. Pushpak Bavage
4.
5. Tejashree Chaitalkar
6. Shubham Gagare

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207

Name of Signature of Project Mentor

Madhavi Tadhar

JSPM's

Imperial College of Engineering and Research, Wagholi, Pune.

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Gat.No.720, Pune-Nagar Road, Wagholi,Pune, 412207

Phone No. 020-67335102 website: www.jspmicoer.edu.in Email- principal @jspmicoer.edu.in

Continuous Assessment Sheet of Project Base Learning (PBL)

FE-2021-22 SEM-II

Division – A / B / E / F

Roll No.:- 11, 13, 17, 18, 20

Batch – B1		Project Title :- Laser Security System				
Name of Group:						
Sr. No.	Parameters for Assessments	Week and month	Date	Max, Marks	Marks	Signature
1	Idea Inception – Topic selection		8/4	5	4	
2	Problem defining		22/4	5	4	
3	Material / Data Collection /		29/4	5	4	
4	Introduction of Project		6/5	5	4	
5	Defining Principle / Hypothesis / law /Formation / Theory used for project / Circuit diagram		13/5	5	4	
6	Progress of project Design / Modeling / Survey Data Analysis etc		20/5	5	4	
7	Result with Conclusion		27/5	5	3.5	
8	Application		3/6	5	3.5	
9	Demonstration / Presentation/ User Interface / Usability		10/6	5	3.5	
10	Report Submission Compiling with all point with Photo		17/6	5	3.5	
11	Awareness / Considering Environmental, Social, Ethical Safety measurement ,Legal Aspects Supporting technology		24/6			

Name and Signature of Student

Sujit Bhagat

Harshal Bhor

Pranav Divekar

Sanika Dangar

Priya Gaikwad

Name of Signature of Project Mentor

Madhavi Gadhav

HOD
First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207.

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Ref No. ICOER/FE/2021-22/ER-1/ **Date: 22/07/2022**

EVENT REPORT

1 **Name of the Event** First Year PBL Exhibition

2 **Day & Date of the Event** Monday, 18/07/2022

3 **Time of the Event** 11:00am To 12:30pm

4 **Venue of the Event** FE Department, ICOER.

5 **Description**

(a)Introduction, Theme & Significance:

Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the students per batch. While assigning the teaching workload a load of 2 Hrs/week/batch needs to be considered for the faculty involved. The Batch needs to be divided into sub-groups of 5 to 6 students. Assignments / activities / models/ projects etc. under project based learning is carried throughout semester and Credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester

Theme :

Theme of Exhibition was to undertake a problem which can be theoretical, practical, social, technical, symbolic, cultural and/or scientific and grows out of students' wondering within different disciplines and professional environments. The problem may involve an interdisciplinary approach in both the analysis and solving phases.

Significance

For better learning experience, along with traditional classroom teaching and laboratory work based learning, project based learning has been introduced with an objective to motivate students to learn by working in group (5 to 6 students per group) courteously to solve a problem. Such practice will also increase their capacity and learning through shared cognition.

(b)Conduction, Activity:

Conduction:

Induction Activity was smoothly conducted under the guidance of **Dr. Kharat A. G., Principal Dr. R. S. Deshpande Sir, F.E. H.O.D. Prof. S. K. Wakchaure Sir, Departmental H.O.D's , PBL Teachers** of respective Batches and all first year faculty members.

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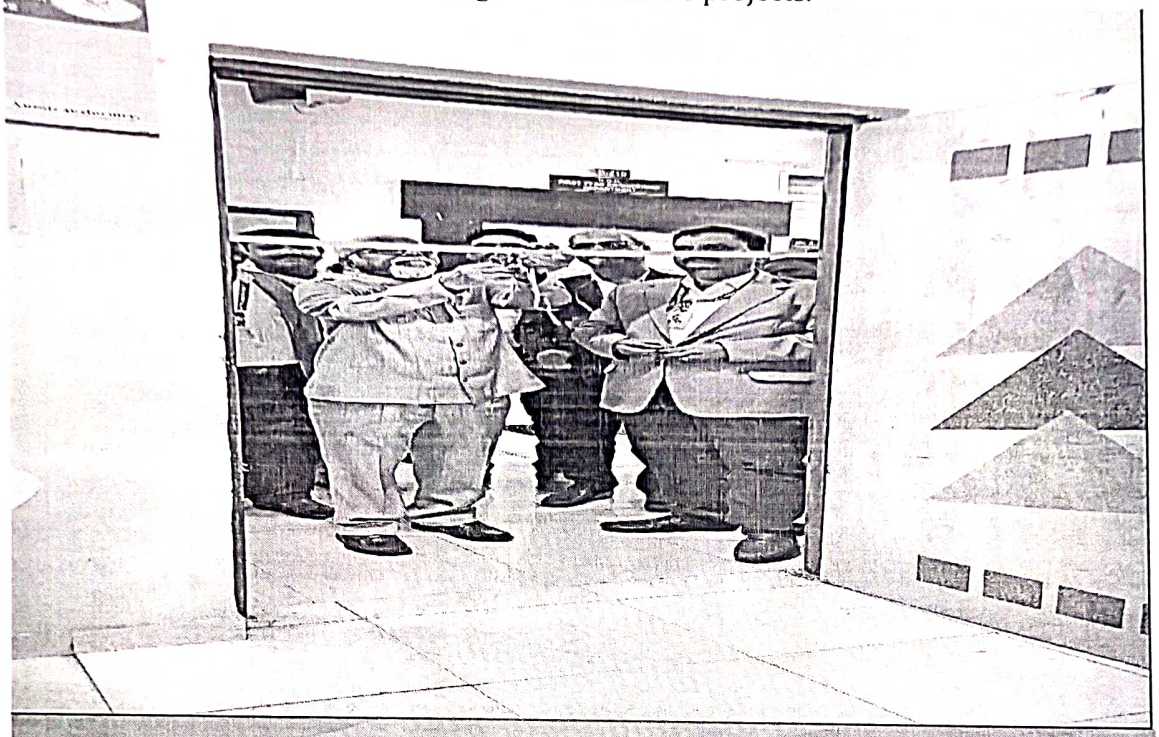
Activity:

Exhibition held in Basic electrical lab and Physics lab in First Year department. Total 36 students were presented their project and response of student was overwhelming. Out of 36 projects, 21 students made model of project, 10 were computer programming projects and remaining are case studies projects.



Project Exhibition Photos


water candle flam

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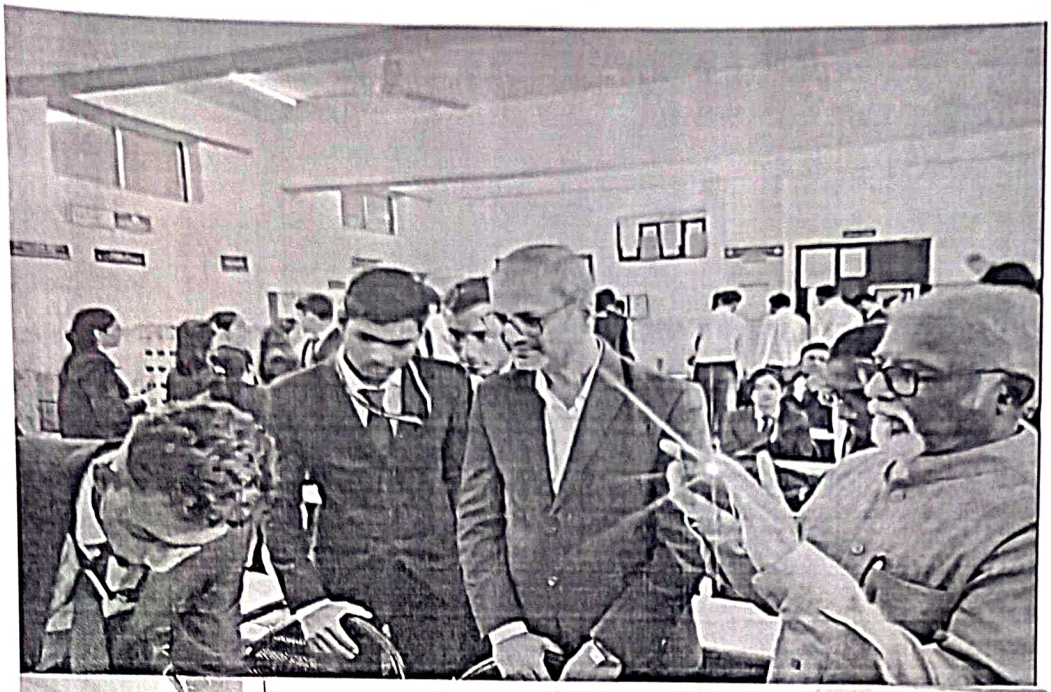

Event Representative

HOD

First Year Engg. Dept.
Imperial College of Engineering & Research
Wagholi, Pune-412207

Dept: E&TC JSPM's ICOER AC. Y: 2021-22

Project Based Learning Continuous Assessment Sheet

Group & Guide	Student Name	Roll No.	Project Title	Continuous Assessment						
				Idea Inception[1]	Outcome[2]	Documentation[3]	Attend Reviews[4]	Demonstration[5]	Awareness/Consideration of Env./social/ethics etc.[6]	Total
				5	25	7.5	5	5	2.5	50
SE A1 (ASD)	Ashu Bamane	SA17	Clap Switch	3	22	5	3	3	1	37
	Rohit Bankar	SA19		3	20	5	3	3	1	35
	Sayali Bhagat	SA18		3	20	6	3	3	1	36
	Bhushan Awari	SA14	Smart Dustbin	3	21	6	5	5	2	42
	Sahil Arjun Goraksh	SA11		3	19	4	4	4	2	36
	Adarsh Kumar Singh	SA02		3	23	6	5	5	2	44
	Anjali Sinha	SA09	Intruder Alarm using Ultrasonic sensor	4	21	5	5	5	2	42
	Siddhi Adhav	SA05		4	21	5	5	5	2	42
	Shaikh Namra	SA01	Distance Indication	3	23	6	5	5	2	44
	Pritha Baggha	SA15	Home Automation	3	18	3	2	2	2	30
	Subodh Bahadure	SA16	Traffic Light Simulation	3	17	2	3	3	1	29
	Amar Aradhya	SA10		2	18	3	3	2	1	29
	Aadesh Shedge	SA04		3	19	1	1	3	1	28
	Ashwini Funde	SA12	Fire Alarm Using Aruino Uno	4	21	6	5	4	2	42
	Akanksha Kadam	SA07		4	20	6	4	3	2	39
	Agarwal Yashika	SA06		4	19	6	4	3	2	38
	Ade Nita	SA03	Temperature Sensor Using LM35	4	19	6	4	3	2	38
	Aniket Jadhav	SA08		4	18	6	4	3	2	37
	Atar Tahir	SA13		2	18	3	3	2	1	29

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				5	25	7.5	5	5	2.5	50
SE A2 (NSL)	Basari chavan	SA-29	Ardunio based wireless notice board	4	20	5	4	4	2	39
	Onkar Bhosale	SA-21		4	23	6	4	4	2	43
	Vaishnavi Bhudhwant	SA-26		4	23	6	4	4	2	43
	Bhute Ayush Sachin	SA22	wireless power transmission	5	23	6	4	4	2	44
	Bodul Shruti Rajendra	SA25		5	22	5	4	4	2	42
	Chavan Shubham Maharudra	SA30		5	21	6	5	4	2	43
	Harshada Bhapkar	SA20	Automation of gardening system	5	22	6	4	4	2	43
	Shadab Deshmukh	SA36		3	18	3	2	2	1	29
	Karuna Biradar	SA24		3	19	4	3	3	1	33
	chande alka	SA-27	fire sensor circuit using bc547 transistor	3	18	4	3	3	2	33
	Desale Aditi	SA-35		4	18	3	3	3	2	33
	Daptare Ashutosh	SA-34		3	18	2	3	3	2	31
	Tejas Deshmukh	SA37	Automatic person counter & light on/off	4	20	6	4	4	2	40
	Pratima Bibrale	SA23		4	19	5	4	4	1	37
	Yash Dhane	SA38		4	19	5	4	4	2	38
	Sanket chor	SA33	noise detection System	3	20	2	3	3	1	32
	kunal charthad	SA28		3	19	2	3	3	1	31

vishal chavan	Not reported yet	not done anything in project, did some part in report writing	25
chinmay mayane	Not reported yet	project demo done on Monday 13th June. corrections in project report,will submit on 15th June 2022	35

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				5	25	7.5	5	5	2.5	50
SE A3 (SD)	Lokesh Girase	SA48	Automated Arduino Based Accident	4	25	6	4	5	2	46
	Ganesh Donhe	SA39		5	25	6	4	5	2	47
	Gaikwad OM	SA45	Home Automation using Android Application	4	22	5	5	5	2	43
	Jade Swami	SA55		1	22	5	2	4	1	35
	Jadhav Aditya.B	SA56		1	22	5	2	3	1	34
	Shivam Gawale	SA47	Smart Dustbin Using Aurdino	4	25	4	4	5	2	44
	Gitesh Bhangale	SA49		4	25	5	5	5	2	46
	Kiran Gurale	SA52		3	25	3	2	3	2	38
	Hajare Poonam	SA53	Fire Detector Alarm	5	22	5	5	4	2	43
	Gade Pranali	SA43		1	18	3	1	1	1	25
	Gadhiya Vaibhavi	SA44		1	18	2	1	2	1	25
	Gogule Vivek Vishnu	SA50	LED Distance Indicator Using Arduino	3	25	4	3	3	2	40
	Aditya Jadhav . R	SA57		3	24	4	3	3	1	38
	Durgesh Thakre	SA40		5	24	3	5	5	1	43
	Harshika Deepak	SA 54		2	22	2	3	4	3	36
	Vinay Gulhane	SA 51	Automatic Soil Watering S	3	22	3	3	4	2	37
	Erande Abhishek	SA 41		4	15	3	3	3	3	31
	Erande Omkar	SA 42		5	15	4	3	3	3	33
	Gaikwad Pratiksha	SA 46	Location and Detection u	2	12	2	3	2	3	24
	Gurale Kiran Balaji	SA 52								

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				Idea Inception[1]	Outcome[2]	Documentation[3]	Attend Reviews[4]	Demonstration[5]	Awareness/Consideration of Env./social/ethics etc.[6]	Total
				5	25	7.5	5	5	2.5	50
SE A4 (DAJ)	Khachare leena Rambhau	72	Bidirectional Visitor Counter	5	23	7	4	4	2	45
	Jadhav Akshata	58		4	23	6	4	4	2	43
	Kanse yash	71		4	23	6	5	4	2	44
	jawalkar tejas	64	Water level Indicator	4	23	5	4	4	1.5	41.5
	kale Sakshi	67		4	23	5	4	3	1.5	40.5
	kale yogesh	68		4	23	5	4	3	1.5	40.5
	kamble Swapnil	70	Reduce the intensity of light using Arduino	4	23	5	4	4	2	42
	Jadhav S S	60		3	22	5	3	3	1.5	37.5
	Jawale OM	63		3	23	4	4	4	2	40
	jaiswal kartik	62	Automatic plant watering System	4	23	4	4	4	2	41
	kale pavan	66		3	22	4	3	4	2	38
	kakade Chetana	65		3	22	4	3	4	2	38
	Jadhav Chetana	**59**	Gas Leakage Detector using GSM Module	4	23	4	4	4	2	41
	kamble Aniket	**69**		3	21	3	3	3	1.5	34.5
	Jagtap A	**61**	Automatic Light intensit	2	18	3	2	3	1.5	29.5
	Karpure K	**71**		4	23	4	3	4	2	40
	More Lakhan Yuvraj	75								
	Khandagale Shivani Popat	73								

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				Incep	Outcom	Documentation[3]	Attend Reviews[4]	Demonstration[5]	Awareness/Consideration of Env./soci	Total
				5	25	7.5	5	5	2.5	50
SE B1 (MAM)	Karale Pratiksha Ajinath	SB01	Smart dustbin using Ardino	3	16	3.5	2	3	1.5	29
	Maindad Pratiksha Jivan	SB14		3	17	5	4	4	2	37
	Mamta Tukaram Khandade	SB16		3	17	5	4	4	2	35
	Khose Sayali Bibhishan	SB05	Water level Indicator	4	18	4.5	2	3	1.5	33
	Kokate Suraj Ganeshrao	SB06		4	21	5.5	3	4	1.5	39
	Korke Vaidehi Santosh	SB07		3	16	3.5	2	3	1.5	29
	Kardile Prasad Ganesh	SB02	Smart stick for Blind person	3	18	5.5	4	3	1.5	35
	Kudale Tushar Shankar	SB09		3	17	5.5	4	3	1.5	34
	Lakare Omkar Subhash	SB10		2	15	5.5	2	2	1.5	28
	Lakshmi Nishikant Chaudhari	SB11	Automatic Light intensity control	3	15	3.5	2	3	1.5	28
	Maharaj Govind Anandidas	SB13		3	15	3.5	2	3	1.5	28
	Mallav Hritik Shantaram	SB15	Light Thermometer using buzzar	3	16	3.5	2	3	1.5	29
	Mane Rutwik Rajendra	SB17		4	18	4.5	2	3	1.5	33
	Khedkar Vishal Sanjay	SB03	Traffic light simulation	4	18	4.5	2	3	1.5	33
	Khomane Aditya Sunil	SB04		3	16	3.5	2	3	1.5	29
	Kshatriya Akash Yogesh	SB08		3	17	5.5	4	3	1.5	34
	Lalwani Saksham Santoshkuma	SB12	Fire detector Alarm	4	18	4.5	2	3	1.5	33
	Mehta Ranjankumar Ruplalpra	SB18		3	16	3.5	2	3	1.5	29
	Meshram Simran Nandkishor	SB19		4	18	4.5	2	3	1.5	33

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				5	25	7.5	5	5	2.5	50
SE B2 (RGD)	Patil Ashwini	B30	Touchless Hand Sanitizer Dispenser	3	18	5.5	4	3	1.5	35
	Nakate Siddhi	B24		3	17	5.5	4	3	1.5	34
	Attar Nilofer	B26		2	15	5.5	2	2	1.5	28
	Mhetre Harshal	B21	Smart Switch Automation using Ardunio	3	20	6.5	3	4	1.5	38
	Naik Sarvesh	B23		3	17	5.5	2	4	1.5	33
	Pawar Satyam	B31		3	18	6.5	3	3	1.5	35
	Prasad Rakeshkumar	B34	Home Automatrion using Ardunio	3	18	5	4	4	2	36
	Rakh Kiran	B36		3	17	5	4	4	2	37
	Palave Nilesh	B27		3	17	5	4	4	2	35
	Pawar Sushant	B32	Smart Stick For Blind Person	3	23	6	4	4	2	42
	Rathod Aakash	B38		3	22	6	4	4	2	41
	Mokashi Ashitosh	B22	Smart Clap switch light By using Ardunio	4	17	5	4	3	2	35
	Pardeshi Tarun	B28		4	18	5	4	3	2	36
	Biradar Prathamesh	B35		4	16	5	4	3	2	34
	Mhaske Harshda	B20	Digital Thermometer using Buzzer	3	20	6	4	3	2	38
	Inagale Nikita	B25		3	19	5	4	3	2	36
	Pawar Vaishnavi	B33		3	20	5	4	3	2	37
	ranjane Yogesh	B37	Solar Power Converter	3	18	4	2	4	1	32
	Pathan Ashad Shakir									

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				5	25	7.5	5	5	2.5	50
SE B3 (NSB)	Gayatri sawant	SB46	LPG gas leakage detection	4	24	6	4	3	1	41
	Shruti sarda	SB43								42
	Siddhesh kumbhar	SB53	Obstacles avoiding car using aurduino	3	24	7	3	4	2	42
	Shubham Hajare	SB52								41
	Runit sawant	SB47								43
	Rohit takpire	SB56	Water level indicator	3	18	5	3	5	2	36
	Akshay talnikar	SB57								36
	Aishwarya soundatikkar	SB55								34
	Shreya patil	SB51	Power distribution transformer monitoring	5	25	7	3	3	2	44
	Renuka khrade	SB39								45
	Sakshant nandanwar	SB41	Motion sensor light system	4	22	7	3	2	1	39
	Shreyas saraf	SB42								38
	Digamber sarode	SB44								37
	Chetan sathe	SB45	Automatic upper dipper light system	4	24	5	4	4	2	43
	Rutuja sapate	SB40								42
	Savita sonwane	SB54								41
	Shamrao ghodke	SB48	Automatic street light	3	17	4	4	5	2	33
	Harshada shevate	SB49								34
	Shubham shewale	SB50								35

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				5	25	7.5	5	5	2.5	50
	Waghmare Vishal Rajkumar	SB 71	Ultrasonic Radar using Arduino	5	22	7	5	5	2	46
	Yadav Harishkumar Kamalapati	SB 73		5	22	7	5	5	2	46
	Vivhal Sanika Sanjog	SB 65	Arduino Based Ultrasonic Sight	5	22	6.5	5	4	1.5	44
	Tarde Sarang Ganesh	SB 59		5	22	6.5	5	4	1.5	44
SE B4 (MKD)	Tejas Vishwanath Patil	SB 60	Soil Moisture Sensor using Arduiono	4	21	5.5	5	4	1.5	41
	Vishal Vittal Saudagar	SB 67		4	21	5.5	4	3	1.5	39
	Waghmare Aditya Ramchandra	SB 68		3	20	4.5	4	3	1.5	36
	Tilekar Abhijit Santosh	SB 61	Arduino based car parking system	4	21	5.5	3	3	1.5	38
	Utkarsh Shivaji Gardare	SB 63		4	21	5.5	3	4	1.5	39
	Waghmare Amol Gangadhar	SB 70		4	21	6.5	4	4	1.5	41
	Tushar Narute	SB 62	Obstacle Avoidance Robotic Vehicle	4	18	4.5	2	3	1.5	33
	Jay Vaidya	SB 64		4	21	5.5	3	4	1.5	39
	Pratiksha Tambekar	SB 58		3	16	3.5	2	3	1.5	29
	Vedant Prakash Yelpale	SB 74	Smart Dustbin using Arduino	3	15	3.5	2	3	1.5	28
	Vipul Rajesh Wankhede	SB 72		3	15	3.5	2	3	1.5	28

Vishal Vitthalrao Garud
Waghmare Amar Kamlesh

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Department of Computer Engineering

PBL groups details

Class : SE Subject - PBL AY.2021-22

Batch	Group no	Group members	Contact no of Team/Group leader	Title	Guide
A1	1	**GATHADI TEJAS ANIL (TL)**	9325411829	Movie recommendations system using machine learning	Prof S. R. Bhandari
		GARUD SUYASH SANDIP			
		KADAM POONAM UTTAM			
		KALE SHIVANI SANJAY			
	2	GAJARE DHANASHRI DNYANESHWAR	788 764 4646	Online Chatting app like WhatsApp	Prof A. P. Gaigol
		KHALATE SEJAL SANDEEP			
		KOPARKAR GARGI BHAGWAN (TL)			
		GAIKWAD SEJAL SHANTARAM			
	3	**KARANDIKAR ADITYA VINAYAK (TL)**	7219236226	Notes taking application	Dr. V. S. Wadne
		KAMBLE JYOTIRAM AMBADAS			
		DHOKALE NISHANT MUKUND			
		GAIKWAD HARSHAL VIJAY			
	4	**JALKOTE SHANTANU SHAILESH (TL)**	9422829067	Search Engine	Prof V. U. Rathod
		JADHAV ATHARVA SAMBHAJI			
		GUNWANT MAROTRAO BANAIT			
		BHOSALE SAKSHI SANJAY			
	5	**DEOKAR RAHUL PRAKASH (TL)**	9767597249	Contact book	Prof M.
		GUPTA SHIVAM RAKESH			

	5	BONDE ANUJ MACHHINDRANATH BHAYGUDE VAISHNAV BABASAHEB	9767397249	Contact book	Kulkarni
	6	BHANNARIA MANAS MANISH DESHMUKH GAURAV DIPAKRAO **KALEKAR SHRUTI CHETAN (TL)**	9657198507	Restaurant Website	Prof S. R. Bhandari
	7	KALE KARTIK SUNIL KALE SHASHIKANT PADMAKAR **DINDE RUSHI SHRIKANT (TL)**	9325433005	Video Calling/Conferencing Website like Zoom	Prof A. P. Gaigol
A2	8	MOHITE RUSHIKESH SUJAY **SANIKA MANOHAR HIPPARAGI (TL)** SANIKA MAGAR PAWAR ANAND YUVARAJ	8208163484	To do list app with advanve features	Dr. V. S. Wadne
	9	**SANJANA DILIP SANGIDWAR (TL)** PIMPALGAONKAR MITALI MAKARAND MULANI ALFAIJ SALIM SALUNKHE DHANASHRI DNYANESHWAR	9356873580	Emojify- create your own emoji with python	Prof V. U. Rathod
	10	**PATIL SWARANGI PRABHAKAR (TL)** PALASKAR KSHITIJA SHASHIKANT PAWAR APURVA SOMNATH PATHARE PRATIKSHA BABAJI	9423905554	Temperature Converter and real time temperature find using location and API Website	Prof M. Kulkarni
	11	**PATIL GAYATRI GOPAL (TL)** NIKAM JOGESHWARI JIJABRAO MEDHE SHWETA ANIL PUNDE ADESH ROHINESHWAR	7820830370	Scientific Calculator System	Prof S. R. Bhandari
	12	ROUT ABHISHEK RATNAKAR **RANDHE PRASAD NANASAHEB (TL)** PATIL SHRINATH SHEKHAR NALE AKHILESH RAMCHANDRA	9359173231	Netflix Home Page Clone	Prof A. P. Gaigol
	13	KURKELLI ADITYA JAYPRAKASH KUMAVAT YASH RAJENDRA LANDE YASH BABASAHEB **SANAP JAGDISH DILIP (TL)**	9309581782	Online exam website	Dr. V. S. Wadne

		PAWAR SURAJ LAXMAN			
A3	14	**TELANG NILESH JAGANNATH (TL)**	7447654275	Travel Guide Website using Travel advisor API	Prof V. U. Rathod
		SAWANT ARPITA VINOD			
	15	THOKE UMESH BHAUSING	9130201700	Student Result Management System	Prof M. Kulkarni
		WAKCHAURE OMKAR SUYASH			
		SHRIKHANDE SHIVAM SANJAY (TL)			
	16	SONAVALE ALANKAR NARESH	8552047540	Weather Forecast Website	Prof S. R. Bhandari
		SHINDE GAURAV SANJAY			
		DEOKAR SANU RAVI (TL)			
		SONAVANE GANESH BHAGWAN			
	17	**KSHIRSAGAR ATHARVA SATISH (TL)**	9146107312	Quiz Application	Prof A. P. Gaigol
		RAJPUT ANSHUSINGH SANJAYSINGH			
		SHINDE PRADIP RAJENDRA			
		BALGUDE SHARAD SAURABH			
	18	**SHUBHAM VINOD KAKDE (TL)**	9284706541	Ecommerce website	Dr. V. S. Wadne
		HUMNABADKAR VRUSHANK			
		KHARDE AISHWARYA RANGNATH			
		KANTALE ADITI VIJAY			
	19	**WABLE YASH SUBHASH (TL)**	9359479794	Certificate Creation/Management System	Prof V. U. Rathod
		SHINDE MAYUR AKASH			
		WAGH ADITYA NETAJI			
		TARAKH SANDIP PRAVIN			
		SHELKE ADITYA PRADIP			
	20	SHINDE ADITYA SANJAY	8626006912	Ticket Raising and Management System for IT Company	Prof M. Kulkarni
		SONAWANE ABHIDNYA BABASAHEB (TL)			
		THOMBARE SAHIL DATTATRAY			

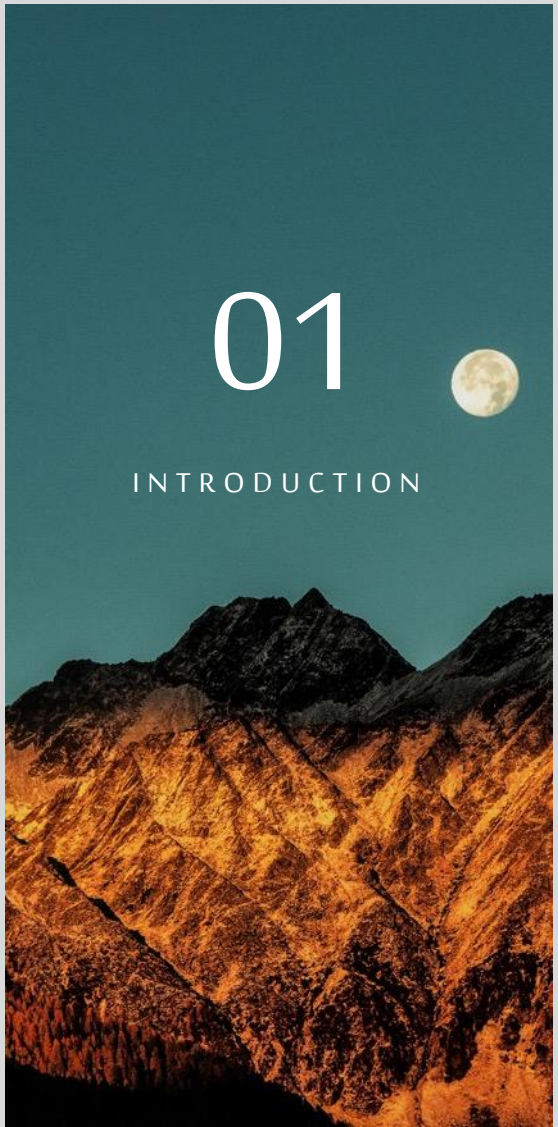
WEATHER FORECAST WEBSITE

PRESENTED BY:-

SANU DEOKAR(S190514209)
Gaurav Shinde(S190514261)
Alankar Sonavale(S190514266)
Ganesh Sonavane(S190514267)

UNDER GAUIDENCE OF:

Prof. S.R.Bhandari

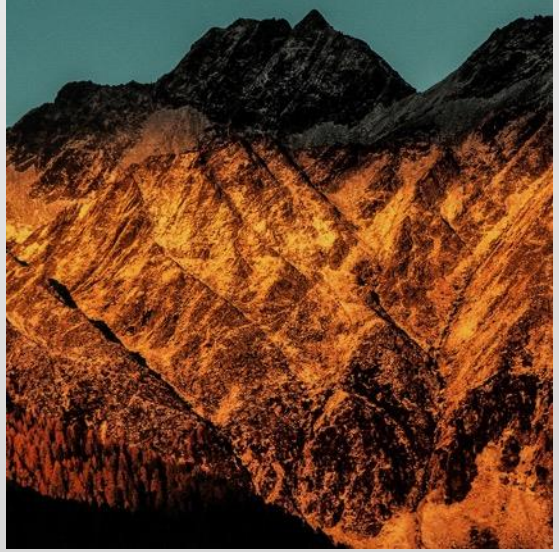

01
INTRODUCTION


02
PROBLEM STATEMENT


03
OBJECTIVES

04

PROPOSED METHODOLOGY



05

CONCLUSION

06

REFERENCE

01

INTRODUCTION

Introduction

Weather forecasting means the prediction of the weather through the application of the principles of physics, supplemented by a variety of statistical and empirical techniques. In addition to predictions of atmospheric phenomena themselves, weather forecasting includes prediction of changes on the Earth's surface climate. These changes are caused by atmospheric conditions like snow and ice cover, storm tides, and floods.

02

PROBLEM STATEMENT

Problem Statement

To create a website for Weather Forecast


03
OBJECTIVES

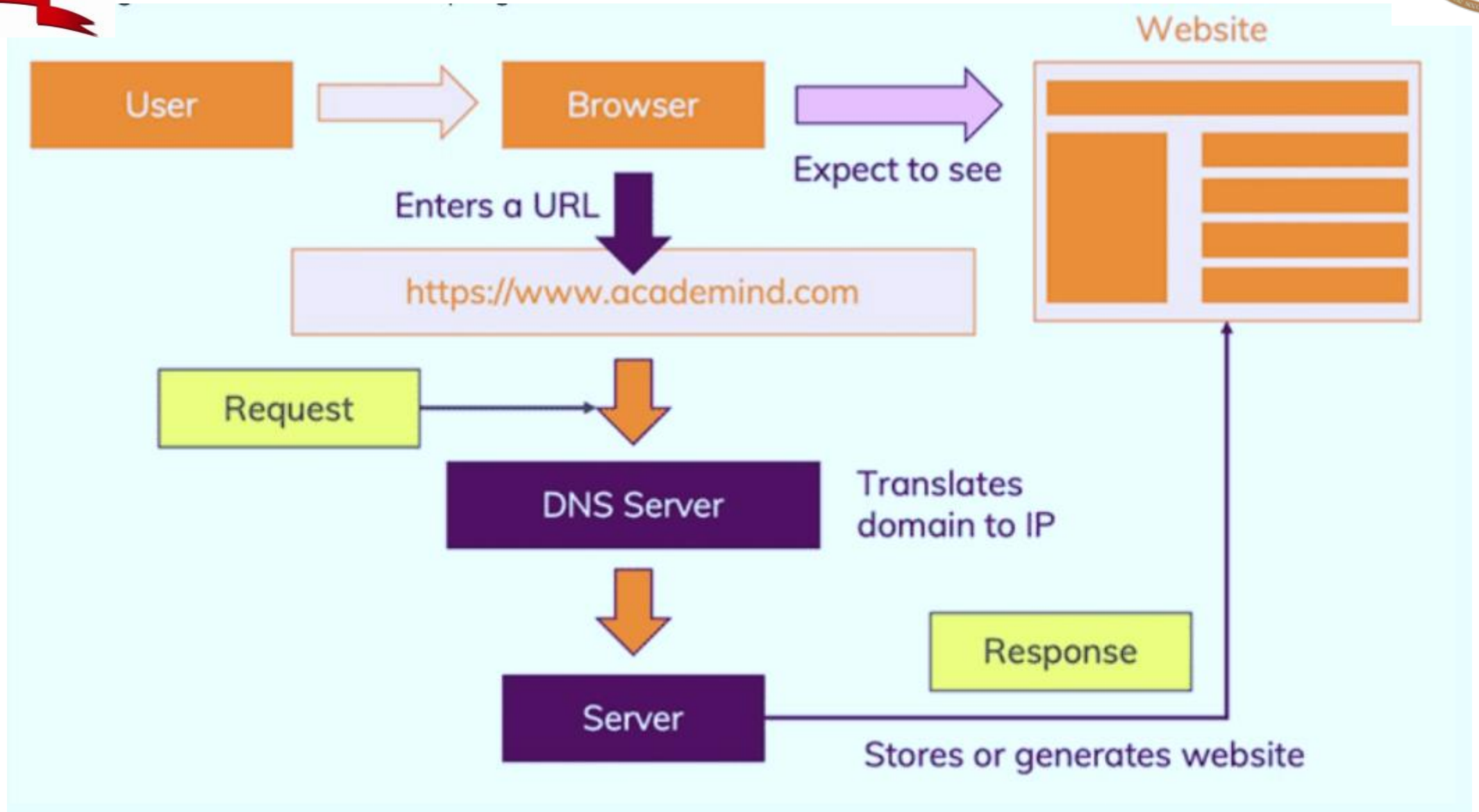
OBJECTIVES

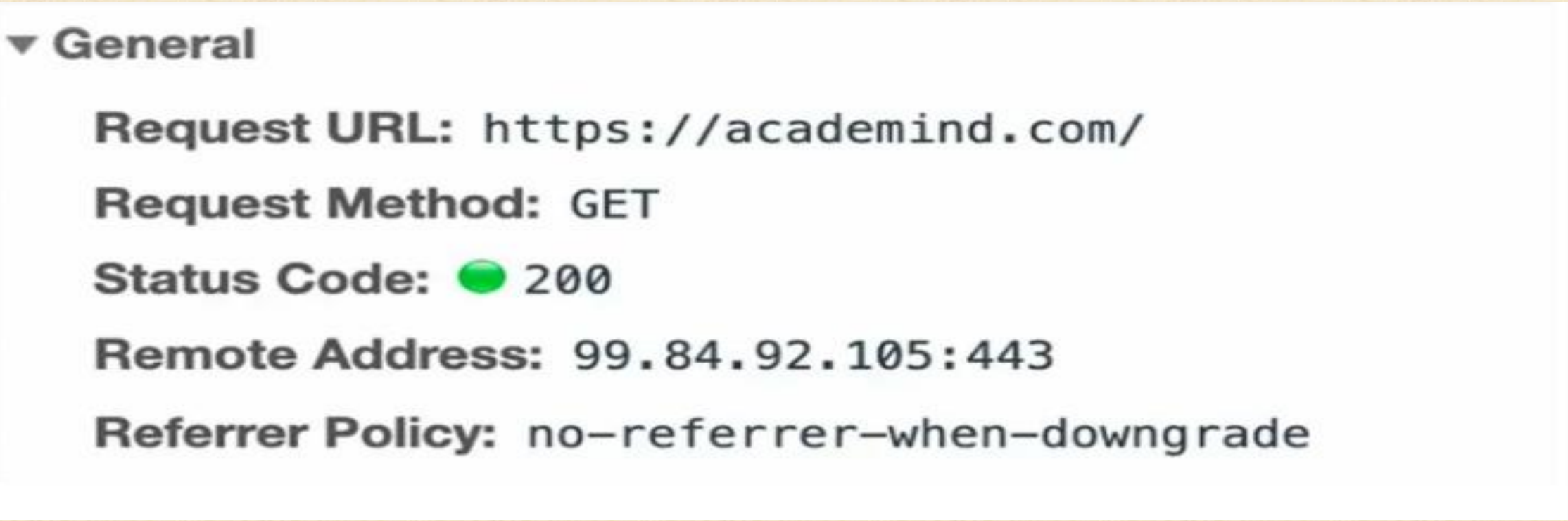
To Find the Weather Forecast Details of User Entered Location

04

PROPOSED METHODOLOGY

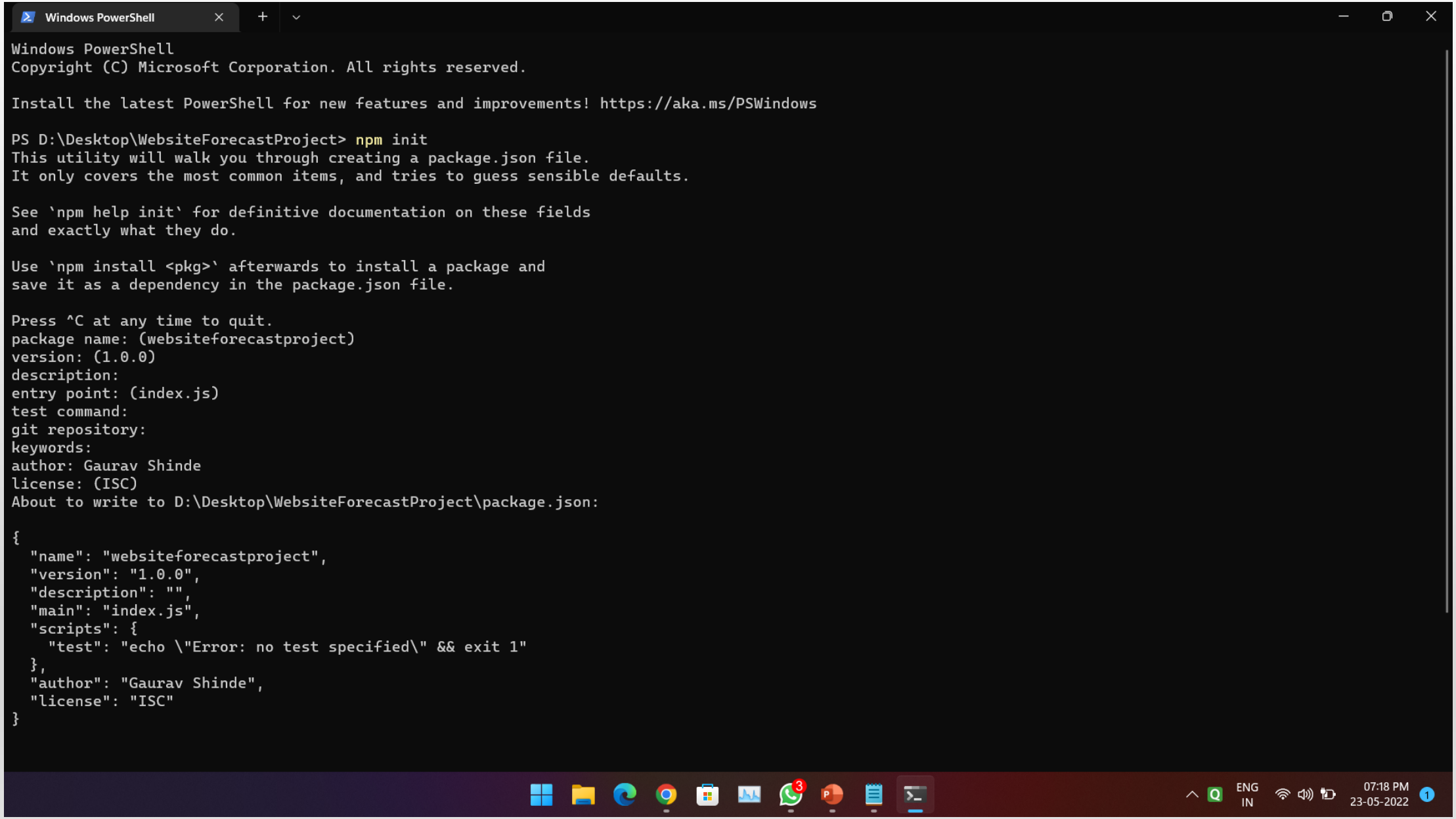
How Websites Work


Website
User
Browser
Expect to see
Enters a URL
https://www.academind.com
Request
DNS Server
Translates
domain to IP
Response
Server
Stores or generates website


General
Request URL: https://academind.com/
Request Method: GET
Status Code: 200
Remote Address: 99.84.92.105:443
Referrer Policy: no-referrer-when-downgrade

Setting Up Server

- Firstly Making the Node.js Server
- Installed the required packages
- Ported the Server at Localhost


Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\Desktop\WebsiteForecastProject> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help init` for definitive documentation on these fields
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (websiteforecastproject)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author: Gaurav Shinde
license: (ISC)
About to write to D:\Desktop\WebsiteForecastProject\package.json:
{
"name": "websiteforecastproject",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
"test": "echo \"Error: no test specified\" && exit 1"
},
"author": "Gaurav Shinde",
"license": "ISC"
}
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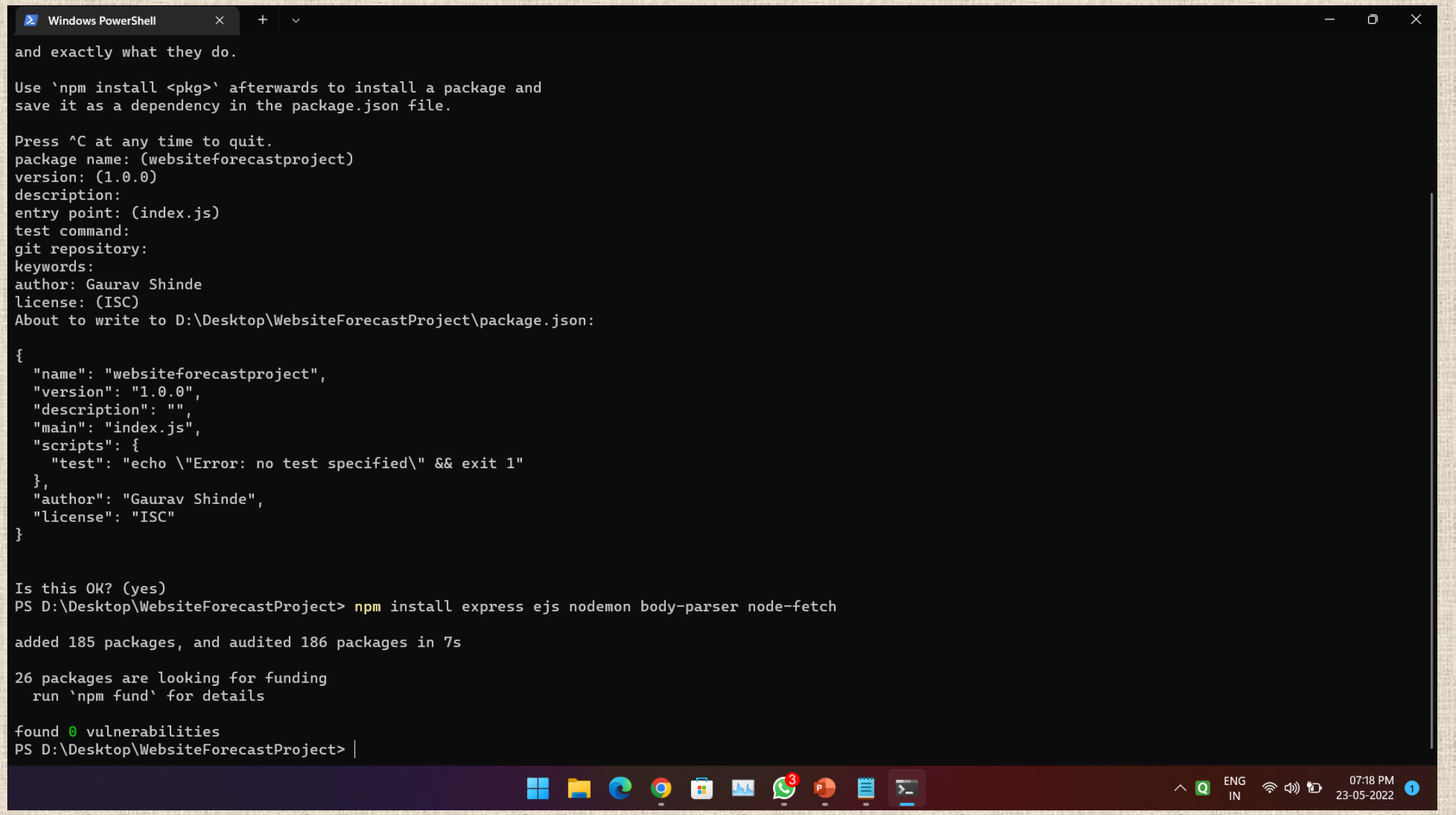
23-05-2022

Packages Installation



Front-End

- Starting Making EJS Templates
- Inserted Bootstrap, custom style-sheet, images
- Linked EJS and Style-sheet Server

Connecting Frond-End with Server

- Added get request to homeroute
- Added 1'st API to convert user entered city names to co-ordinates
- Added 2'nd API and fetched weather data using fetch module
- Added function's to convert Unix date and time received from 2'nd API to UTC(Co-ordinated Universal Time)
- Rendered required data to webpage as a response of post request from user

JSPM's Imperial College of Engg. & Research,
Department of Computer Engineering

Scan the QR Code to visit the site:

Link: https://limitless-shelf-83830.herokuapp.com/

05

CONCLUSION

Conclusion

Weather forecasts are increasingly skillful and useful, and their benefits extend widely across the economy. The forecasting community works closely with users to ensure thatforecast information meets their specific needs. This includes collaborations between physical and social scientists to ensure that accurate and reliable forecast information is communicated in ways that enable users to incorporate it in their decision-making processes. Simultaneously, the forecasting community is improving existing forecast tools, developing new forecast techniques, and leveraging new and expanding observation networks to help improve forecast skill. These efforts have increased, and continue to increase, the value of forecast information to everyone.

06

REFFERENCE

References

- **node.js**
  Link: https://nodejs.org/en/docs/

- **express.js**
  Link: https://expressjs.com/en/5x/api.html#express

- **ejs**
  Link: https://ejs.co/#docs

Thank You

"WEATHER FOREST WEBSITE"

PROJECT BASED LEARNING REPORT

Submitted to

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

Submitted By

1) Deokar Sanu Ravi (S190514209)
2) Shinde Gaurav Sanjay (S190514261)
3) Sonavale Alankar Naresh (S190514266)
4) Sonavane Ganesh Bhagwan (S190514267)

Under the Guidance of
Prof S.R.Bhandari

DEPARTMENT OF COMPUTER ENGINEERING

JSPM's IMPERIAL COLLEGE OF ENGINEERING & RESEARCH

WAGHOLI, PUNE- 412207

2021-22

JSPM's Imperial College of Engineering & Research,

Wagholi Pune – 412207

CERTIFICATE

This is to certify that the PBL Project entitled "Weather Forecast Website" Submitted by "Deokar Sanu Ravi" is a record the bonafide work carried by her, under my guidance as a part of Project Based Learning course.

Guide	Head of Department	Principal
Computer Department	**Computer Department**	**I.C.O.E.R, Pune**

(External Examiner)

Place: Pune

Date:

CONTENTS

WEATHER FORECAST WEBSITE

Abstract:

Weather forecasting is the attempt by meteorologists to predict the weather conditions at some future time and the weather conditions that may be expected. The climatic condition parameters are based on the temperature, wind, humidity, rainfall and size of data set.

Weather forecasting is the prediction of the state of the atmosphere for a given location using the application of science and technology. This includes temperature, rain, cloudiness, wind speed, and humidity. Weather warnings are a special kind of short-range forecast carried out for the protection of human life. Weather warnings are issued by the governments throughout the world for all kinds of threatening weather events including tropical storms and tropical cyclones depending upon the location. The forecast may be short-range or Long-range. It is a very interesting and challenging task. This report provides a basic understanding of the purpose and scope of weather forecasts, the basic principles and the general models developed for forecasting.

Introductions:

Weather forecasting means the prediction of the weather through the application of the principles of physics, supplemented by a variety of statistical and empirical techniques. In addition to predictions of atmospheric phenomena themselves, weather forecasting includes prediction of changes on the Earth's surface climate. These changes are caused by atmospheric conditions like snow and ice cover, storm tides, and floods.

The basis for weather prediction started with the theories of the ancient Greek philosophers and continued with Renaissance scientists. It was followed by the scientific revolution of the 17th and 18th centuries. The theoretical models of 20th- and 21st-century atmospheric scientists and meteorologists helped for the betterment in applications. The so-called synoptic weather map came to be the principal tool of 19th-century meteorologists. This is used today in weather stations and on television weather reports all over the world. All can happen only through a comprehensive weather forecast. Any weather prediction. needs a systematic collection of weather record of various places and proper analysis using the data for prediction.

Problem Statement: To create a website for Weather Forecast

Literature Survey:

Weather forecasting has been one of the most challenging difficulties around the world because of both its practical value in popular scope for scientific study and meteorology. Weather is a continuous, dynamic, multidimensional chaotic process, and data-intensive and these properties make weather forecasting a stimulating challenge. It is one of the most imperious and demanding operational responsibilities that must be carried out by many meteorological services all over the globe. Various organizations / workers in India and abroad have done demonstrating using supported time series data manipulation. The various methodologies viz. statistic decomposition models, Exponential smoothing models, ARIMA models and their dissimilarities like seasonal ARIMA models, vector ARIMA models using flexible time series, ARMAX models i.e., ARIMA with following informative variables etc., which has been used for forecasting purposes. Many trainings have taken place within the analysis of pattern and circulation of rainfall in many regions of the world. Totally altered time series methods with different purposes are used to investigate weather information in many different literatures. Accurate and timely weather forecasting is a major challenge for the scientific research. Weather prediction modelling involves a combination of many computer models, observations and acquaintance of trends and designs. Using these methods, practically accurate forecasts can be made up. Regression is a statistical experimental technique and it must be widely used in many businesses, the behavioural sciences, social and climate recasting and many other areas.

Agrawal et al. (1980) explained the phenomena for time series regression models for forecasting the yield of rice in Raipur district on weekly data using weather parameters [1]. In [2] the author Kou and Sun, (1993) was used to Associate in having intervention model for average10 days stream flow forecast and synthesis that was investigated by to affect the extraordinary phenomena caused by typhoons and different serious irregularities of the weather of the Tan Shui geographical area in Taiwan. In [3] Chiew et al, (1993) conducted a comparison of six rainfall-runoff modelling approaches to

pretend daily, monthly and annual flows in eight tolerant catchments. They concluded that time-series approaches will agreement adequate estimates of monthly and annual yields within the water capitals of the catchments. In [4] Langu, (1993) is another approach which used statistical analysis to observe changes in weather and runoff patterns to go and look for important changes inside the parts of variety of weather statistic. Box and Jenkins (1994), in early 1970's, pioneered in developing methodologies for statistic indicating within the univariate case often known to Univariate Box-Jenkins (UBJ) ARIMA modelling in this approach of the author[5].The variables which describes weather conditions vary continuously with time in this explanation we found that the author [6], describing time series of each and every parameter and can be used to develop a forecasting model either statistically or using some new means that uses this time series data (Chatfield 1994; Montgomery and Lynwood 1996). Several authors have discussed the fuzziness associated with the weather systems. In [7] Chaotic features are associated with the atmospheric phenomena also have fascinated the attention of the modern scientists (Sivakumar 2001; Sivakumar et al. 1999; Men et al. 2004). At present, the valuation of the nature and causes of seasonal climate variability is still formation. Since, it is a complicated phenomenon that includes many specialized fields of know-how to work for weather prediction (Guhathakurata, 2006); therefore, in the field of meteorology all assumptions are to be taken in the visage of uncertainty connected with local of and global climatic variables. Different scientists over the world have developed stochastic weather models. It is mainly used to predict and warn about how natural disasters that are caused by abrupt modification in climate conditions and has been approached using Climatic means [8]. In [9] Seyed, A., Shamsnia, M., Naeem, S. and Ali, L., (2011) was explained that the modelled weather parameter using some of the random methods (ARIMA Model) It include the Case Study: Abadeh station, Iran. Mahsin et al. (2012) used Box-Jenkins methodology to form seasonal ARIMA model for monthly weather information taken for Dhaka station, Bangladesh, for the significant amount from 1981-2010. In their paper, ARIMA (0, 0, 1) (0, 1, 1) model was found suitable and also the model is working for forecasting the monthly climate

prediction.Marmara University, Vocational School of Technical Sciences, Turkey(2010) comparative study of statistical and neuro-fuzzy network models for forecasting the weather of Gazette, İstanbul, Turkey Adaptive Network Based Fuzzy Inference System and Auto Regressive Moving Average models have been applied that ensure the efficiency of ARIMA and ANFIS techniques, different models using a different training and test data set have been tested [10] and the criteria of performance evaluation which are calculated for estimating and then comparing the performances of ARIMA and ANFIS models for forecasting has mentioned the clear review .Mahmudur Rahman, A.H.M. Saiful Islam, Sahah Yaser Maqnoon Nadvi , Rashedur M Rahman (2013) consider Arima and Anfis Model and explained how ARIMA Model can more efficiently capture the dynamic behavior of the weather property , say, Minimum Temperature , Maximum Temperature, Humidity and Air pressure which must be compared by different performance metrics, for example, with Root Mean Square Error (RMSE), R-Square Error and The Sum of the Square Error(SSE) [11] and author can prove that ARIMA would give the more efficient result than other modeling techniques like ANFIS.

Information:

Practical applications of weather forecasting: Systematic weather records were kept after the invention of the instruments for measuring atmospheric conditions during the 17th century. Undoubtedly, these early records were employed mainly by those engaged in agriculture. Planting and harvesting can be planned better and carried out more efficiently if all the long-term weather patterns are estimated in advance.

Weather warnings are a special kind of short-range forecasts. It is needed for the protection of human life from weather extremes. Weather warnings are issued by government and military organizations throughout the world for all kinds of threatening weather events like tropical storms which are called as hurricanes, typhoons, or tropical cyclones, depending on location.

Weather forecasting became an important tool for aviation during the 1920s and ’30s. Many oceangoing shipping vessels as well as military ships use optimum ship routing forecasts to plan their routes in order to minimize the loss of time, potential damage, and fuel consumption in heavy seas. Any observer who has learned the nature’s signs in the sky can interpret the appearance of the sky, the wind, and other local effects and “foretell the weather.”

A scientist can use instruments at one location to determine the same effectively. The modern approach to weather forecasting uses data of many such observations made at different places. These are exchanged quickly by experts at various weather stations and entered on a synoptic weather map. This synoptic weather maps are used to depict the patterns of pressure, wind, temperature, clouds, and precipitation at a specific time.

Establishment of weather-station networks and services:

The increase in the number of weather-station networks linked by telegraphy, made synoptic forecasting a reality. It happened by the close of the 19th century.

Forecasters are able to produce synoptic weather maps of the upper atmosphere twice each day on the basis of radiosonde observations.

The Radar observation of the growth, motion, and characteristics of such storms provide clues as to their severity.

Meteorological measurements are made from satellites and aircraft. The era of numerical weather prediction began in the 1950s. As computing power grew, so did the complexity, speed, and capacity for detail of the weather and climatic models. The new and latest observations became available from such sources as Earth-orbiting satellites, radar systems, and drifting weather balloons. Advanced methods with sophisticated equipment are used to ingest the data into the models to produce the initial synoptic maps. Numerical forecasts have improved steadily over the last fifty years.

Weather prediction /Forecast:

Weather Forecasting serves many purposes and needs. It can help people and organizations to plan for the future and to make rational decisions. The fundamental aim of meteorologists is to understand the atmospheric processes and then predict the future weather as much ahead as possible. Adaptation to the climatic environment, which means adjusting to the normal occurrences and withstanding the unfavourable extremes is an important feature for the survival of life. So, it is inevitable to go for weather forecast in the world everywhere.

Goal of atmospheric research:

Weather prediction is said to be the ultimate goal of atmospheric research. It is the most advanced area in the subject and application of meteorology. First, to make an accurate forecast, a meteorologist must first understand what processes are occurring in the atmosphere to produce the current weather at the location for which the meteorologist is forecasting. This is done by measuring certain elements (making observations) of the atmosphere. They are called as weather elements. It includes the temperature, pressure, wind direction and speed, humidity, cloud cover, precipitation, etc. Frequency, accuracy and area of coverage are important in this work. The more complete measurement coverage across the earth's surface and vertically through the atmosphere of these elements will give a better picture about the trending situations. By observing the changes which take place to these elements over time and comparing the changing patterns with historical

patterns, an understanding of expected weather conditions can be made. The differences in warming across the earth's surface from solar radiation, radiational cooling at night, warming of the atmosphere due to latent heat release during condensation are some of the important things to be recorded.

Meteorologists in weather Forecasting:

If meteorologists can understand how the atmosphere changes over time in response to various factors, they can write the governing mathematical equations to express these changes. These equations are developed into numerical models to find out how the atmosphere is changing and will appear in the future. The output from these models can be used as an aid to forecasters in preparing the forecasts both in short range or long range.

Different methods used in modern weather forecasting are:

(1) Synoptic weather forecasting,

(2) Numerical methods, and

(3) Statistical methods.

Synoptic weather forecasting:

It is the traditional and basic approach adopted in weather prediction. This method continued to be in use until the late 1950s. "Synoptic" means that the observation of different weather elements refers to a specific time of observation. Thus, a weather map that depicts the atmospheric conditions at a given time is a synoptic chart to a meteorologist. In order to have an average view of the changing pattern of weather, a modern meteorological centre prepares a series of synoptic charts every day. Such synoptic charts form the basis of all general weather forecasts. The task of preparing synoptic charts on a regular basis involves huge collection and analysis of observational data obtained from thousands of weather stations. From the careful study of weather charts over many years, certain empirical rules are formulated. These rules help the forecaster in estimating the rate and direction of the movement of weather systems.

Numerical methods:

The numerical method involves a lot of mathematics. Modern weather forecasting is now using the techniques of Numerical Weather Prediction

(NWP). This method is based on the fact that gases of the atmosphere follow a number of physical principles. If the current conditions of the atmosphere are known, these physical laws may be used to forecast the future weather situations.

A series of mathematical equations are used to develop the theoretical models of the general circulation of the atmosphere. These equations are used to specify changes in the atmosphere as the time passes on. For these equations certain weather elements like air movements, temperatures, humidity, evaporation at the ground, clouds, rain, snow and interactions of air with ground and oceans are taken into account. The daily weather prediction model is one such thing. In mobile phones we see these forecasts.

Daily weather prediction model:

The daily weather prediction model makes use of a numerical model in which the atmosphere is divided into 6 distinct layers. In certain cases, the atmosphere is divided into as many as 11 layers. The use of mathematical models makes it necessary that the initial state of the atmosphere is completely known. These models, in fact, represent a hypothetical atmosphere. The equations are solved by the computer at each nodal point for a very short period of time, say 10 minutes. By repetitive calculations for every next 10 minutes, forecast is obtained for 24, 48 or 72 hours ahead.

Radio sonde data:

The accuracy of numerical weather predictions depends primarily on two factors. First, the more data that is available to a computer, the more accurate its results. Second, the faster the speed of the computer, the more calculations it can perform, and the more accurate its report will be. This is made possible by making observations of the atmosphere by means of radiosonde stations all over the world. Radio sonde data are supplemented by means of radiometric observations from satellites which also provide data on humidity and cloud cover. With the help of these quantities, maps showing the atmospheric conditions are constructed. At present automated techniques are used to draw weather maps depicting the pattern of these quantities.

Nowcasting:

The forecasting of the weather within the next six hours is often referred to as nowcasting. In this time range, it is possible to forecast smaller events such as individual showers and thunderstorms with reasonable accuracy, as well as other features too small to be resolved by a computer model. This type of forecast therefore includes details that cannot be solved by numerical weather prediction (NWP) models running over longer forecast periods.

Statistical methods:

Statistical methods are mainly used along with the numerical weather prediction computations. These methods often supplement the numerical methods.

Statistical methods use the past records of weather data on the assumption that future will be a repetition of the past weather. The main purpose of studying the past weather data is to find out those aspects of the weather that are good indicators of the future events.

After establishing these relationships, correct data can be safely used to predict the future conditions. Only overall weather can be predicted in this way. It is particularly of use in projecting only one aspect of the weather at a time.

Forecast Range Types:

A short-range forecast is a weather forecast made for a time period up to 48 hours.

Extended forecasts are for a period extending beyond three or more days (e.g., a three to five-day period) from the day of issuance.

Medium range forecasts are for a period extending from about three days to seven days in advance.

Long-range forecasts are for a period greater than seven days in advance but there are no absolute limits to the period.

Short-range forecast predictions, where the forecast is made for a time period for today and/or tomorrow (up to 48 hours), are generally more accurate than the other types of forecasts.

Long Range Weather Forecasting:

A long-range forecast must be able to indicate how the weather over the extended period will differ from the climatic normal. As the climate of a region and season is a summary of all types of weather conditions which occur, long-range forecasts may have to attempt to describe the future weather, in terms of the types of weather situations to be expected. The realization that the climate is not constant and invariant, makes the forecasting of future climate all the more important.

Consistent with the several needs, the scope of long-range weather prediction has extended over a wide spectrum ranging from 5 days to periods of the length of months, seasons or more.

Basis of long-range forecasting:

Long-range forecast of weather will have to depend upon the routine observations of the several phenomena, made over the entire globe.
The number of atmospheric elements/parameters concerned is so enormous that to maintain an accurate record of their locations, their physical state and their changes is practically impossible.

Periodicity is yet another factor in this process:

The study of periodic variations in weather has attracted many meteorologists. Much of the work done in long-range forecasting of weather by climatic cycles is based on the expected influences of the major planets.

Correlation approach:

Statistical relations expressing the relationships between past and present weather on the one hand and the future weather in the same or other regions of the globe on the other, have been in use in various parts of the world. These were used particularly where large scale processes dominate the weather over a wide range of land areas.

Dynamical approach:

In this method, beginning with the observed state of the atmosphere at a given time, the future state is predicted on the basis of a set of thermodynamical and hydrodynamical differential equations. Most of these

equations involve the first law of thermodynamics and Newton's second law of motion.

Challenges of Tropical Weather Forecasting:

Tropical weather is difficult to forecast. Midlatitude weather is dominated by synoptic systems moving in the westerlies, which formed the basis for the weather analysis methods developed in the 19th and 20th centuries. In the midlatitudes, baroclinic instability results from air masses with contrasting temperature and density. There, energy is concentrated in extratropical cyclones that can be tracked fairly easily. But tropical cyclones may be very difficult to predict. Tropical forecasters are faced with a variety of synoptic-scale systems that can produce heavy rain, strong winds, severe weather, dust storms, and high surf. The most hazardous of the synoptic systems are tropical cyclones.

Algorithm:

Step1: We have used Node.js which is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

Step2: Installed express.js framework and made our server run on localhost.

Step3: Now we had to process our home route post request on this server which returns our homepage of website in response.

Step4: Now we started to work on frontend of website and made files index.ejs and searchlocation.ejs

Step5: Index.ejs would be the homepage of our site. We used bootstrap and also customized it according to our requirement

Step6: Added Static Folder so that we can place static files in it like images and CSS stylesheet which we used to customize webpage in step5.

Step7: Now stated working of searchloc.ejs which will be going to result of post request to home route.()

Step8: Started working on CSS of searchloc.ejs

Step9: Now we started working on server created in step1 and step2.

Step10: The problem is to find weather forecast info on particular searched city. So in order to get weather data we used openweathermap's One Call API which returns current weather info and weather forecast for 7 days.

Step11: To fetch this data we used node package fetch.

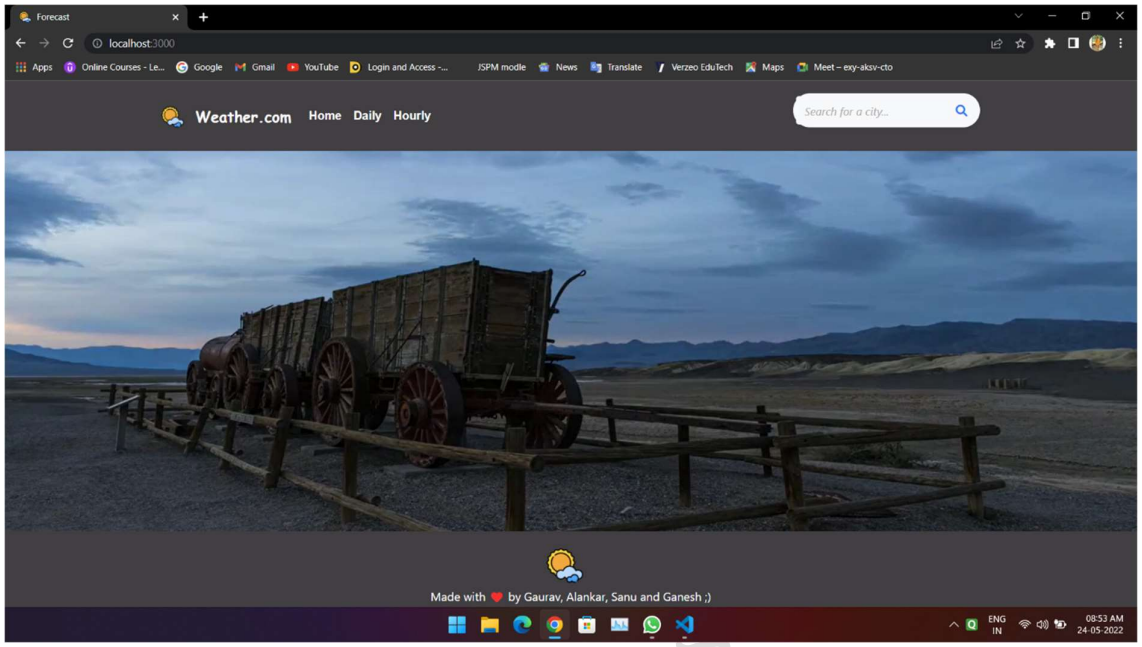
Step 12: But the One Call API used here takes only co-ordinates of location to be searched as parameter/query.

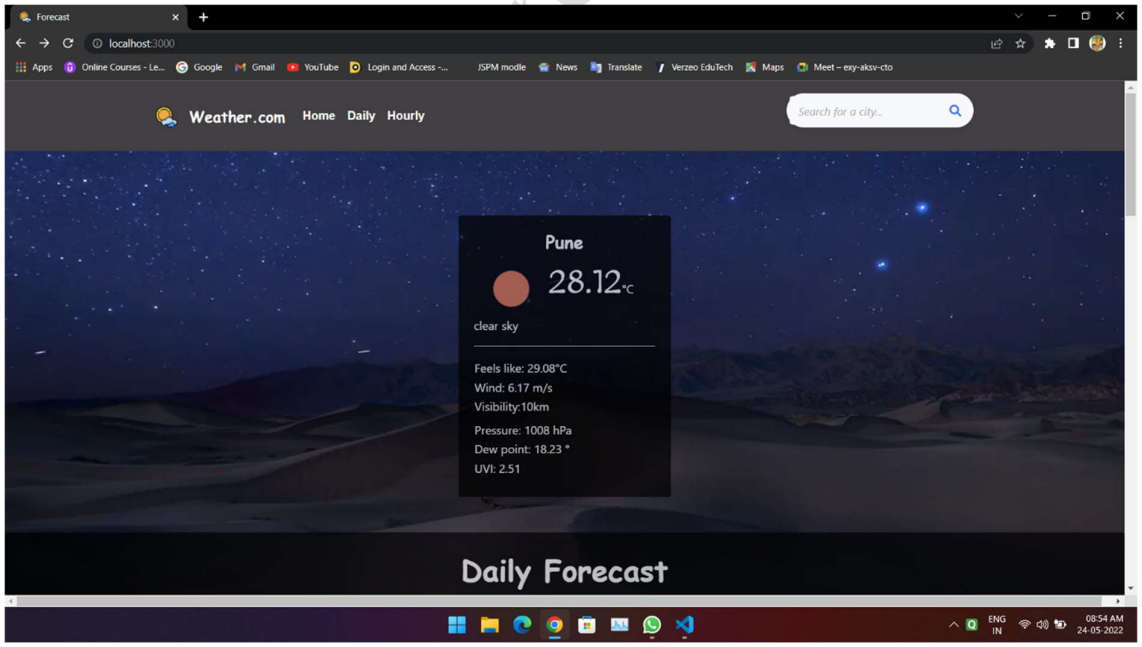
Step 13: So to make it user friendly we used another API(Geolocation) which converts City name to its particular co-ordinates and passed its output as query to One Call API.

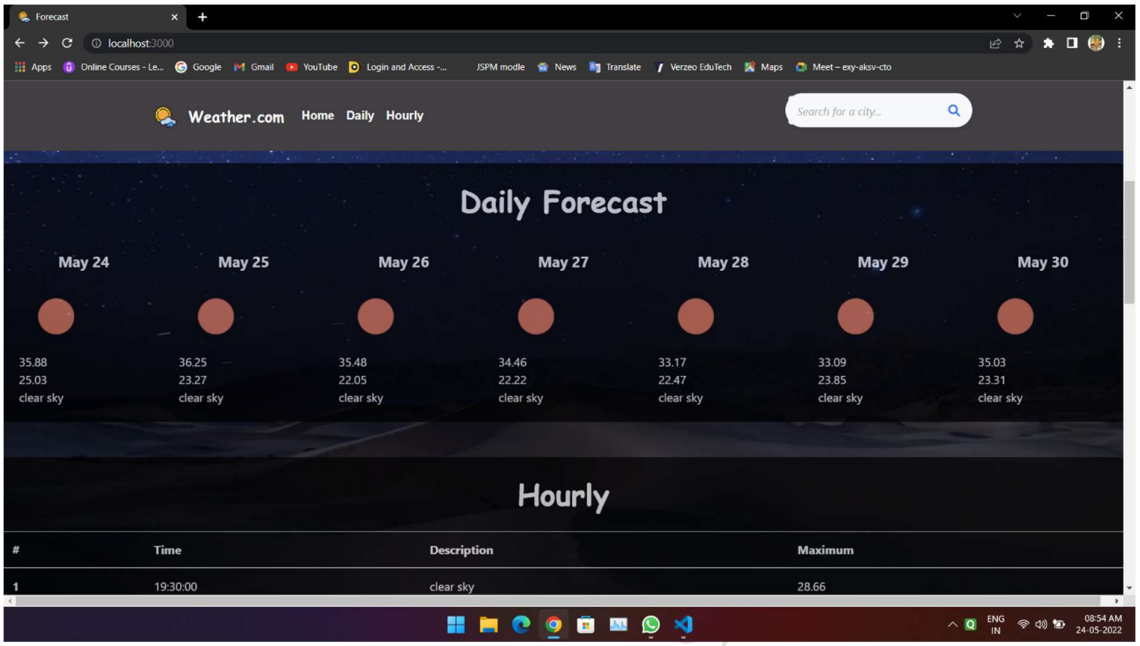
Step 14: We parsed the JSON data got through this API and displayed it on searchloc.ejs.

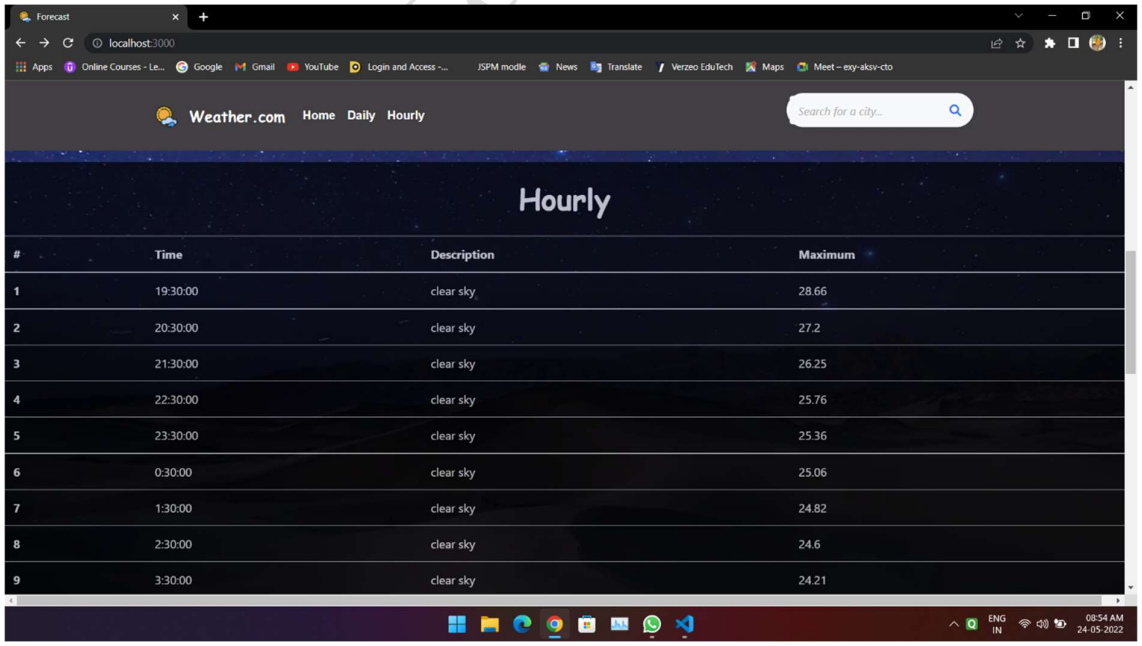
Results and Analysis:

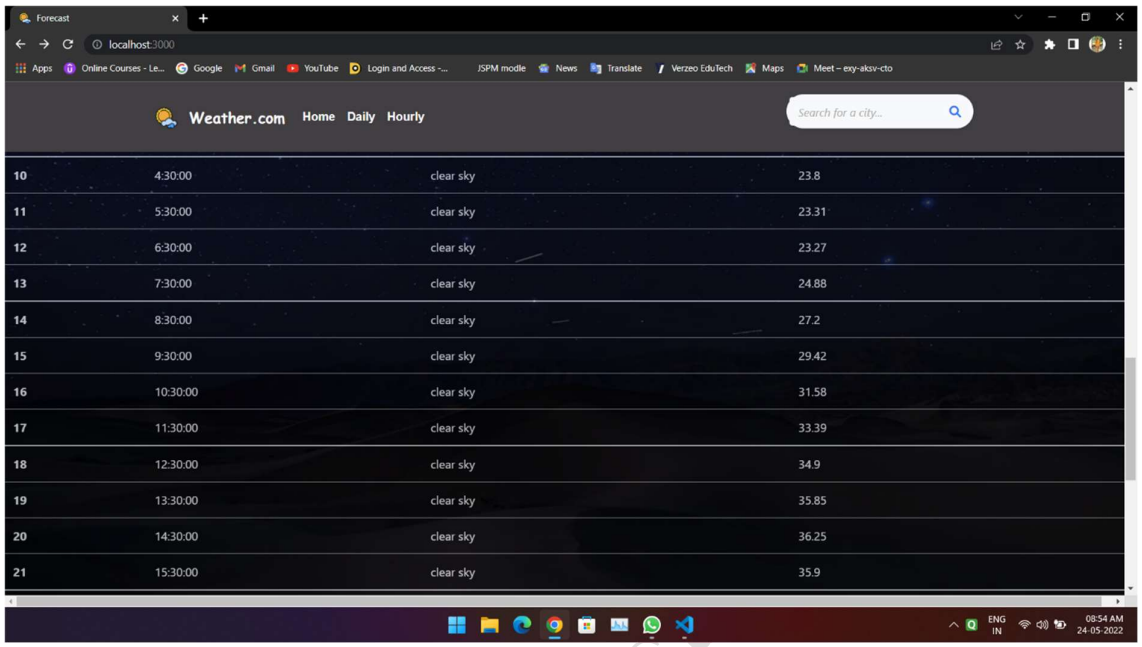
Results:

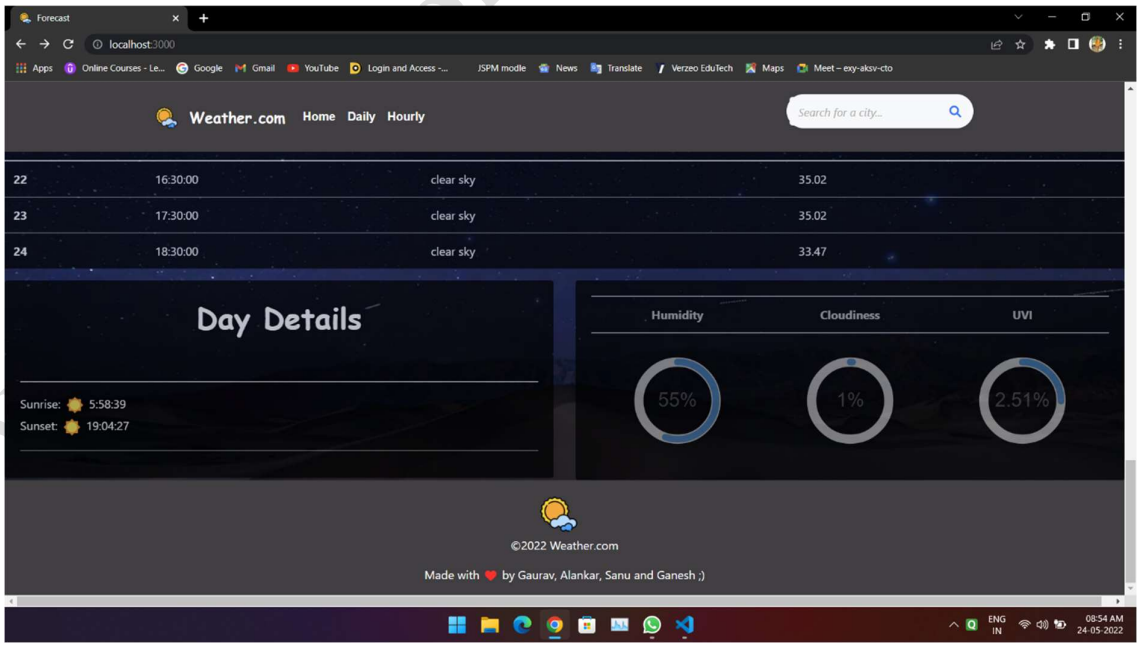

Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city...
Made with by Gaurav, Alankar, Sanu and Ganesh ;)


Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city...
Pune
28.12°C
clear sky
Feels like: 29.08°C
Wind: 6.17 m/s
Visibility:10km
Pressure: 1008 hPa
Dew point: 18.23 °
UVI: 2.51
Daily Forecast

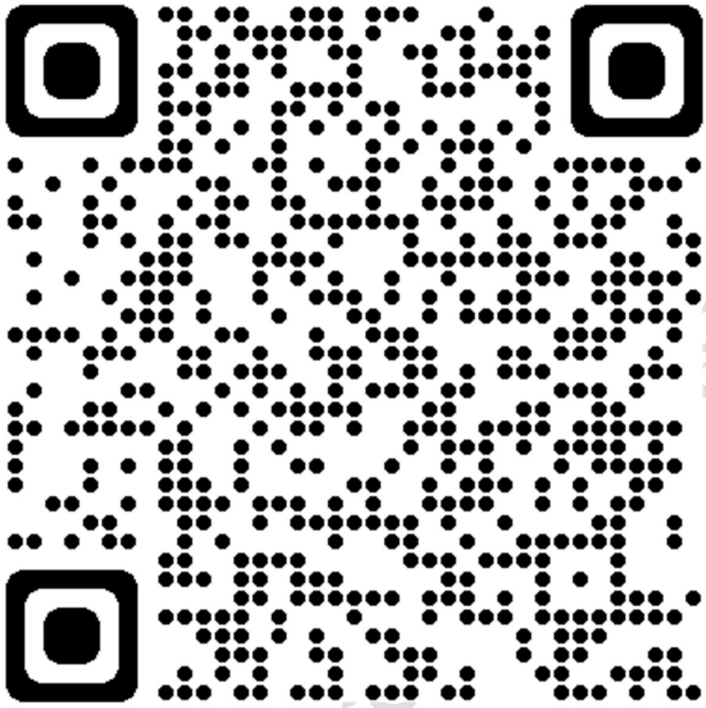

Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city..
Daily Forecast
May 24
May 25
May 26
May 27
May 28
May 29
May 30
35.88
25.03
clear sky
36.25
23.27
clear sky
35.48
22.05
clear sky
34.46
22.22
clear sky
33.17
22.47
clear sky
33.09
23.85
clear sky
35.03
23.31
clear sky
Hourly
Time Description Maximum
1 19:30:00 clear sky 28.66


Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city..
Hourly
Time Description Maximum
1 19:30:00 clear sky 28.66
2 20:30:00 clear sky 27.2
3 21:30:00 clear sky 26.25
4 22:30:00 clear sky 25.76
5 23:30:00 clear sky 25.36
6 0:30:00 clear sky 25.06
7 1:30:00 clear sky 24.82
8 2:30:00 clear sky 24.6
9 3:30:00 clear sky 24.21


Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city...
10 4:30:00 clear sky 23.8
11 5:30:00 clear sky 23.31
12 6:30:00 clear sky 23.27
13 7:30:00 clear sky 24.88
14 8:30:00 clear sky 27.2
15 9:30:00 clear sky 29.42
16 10:30:00 clear sky 31.58
17 11:30:00 clear sky 33.39
18 12:30:00 clear sky 34.9
19 13:30:00 clear sky 35.85
20 14:30:00 clear sky 36.25
21 15:30:00 clear sky 35.9


Forecast
localhost:3000
Weather.com
Home
Daily
Hourly
Search for a city...
22 16:30:00 clear sky 35.02
23 17:30:00 clear sky 35.02
24 18:30:00 clear sky 33.47
Day Details
Sunrise: 5:58:39
Sunset: 19:04:27
Humidity
Cloudiness
UVI
55%
1%
2.51%
©2022 Weather.com
Made with by Gaurav, Alankar, Sanu and Ganesh ;)

Scan the QR Code to visit the site:



Link: https://limitless-shelf-83830.herokuapp.com/

Conclusion:

Weather forecasts are increasingly skillful and useful, and their benefits extend widely across the economy. The forecasting community works closely with users to ensure that forecast information meets their specific needs. This includes collaborations between physical and social scientists to ensure that accurate and reliable forecast information is communicated in ways that enable users to incorporate it in their decision-making processes. Simultaneously, the forecasting community is improving existing forecast tools, developing new forecast techniques, and leveraging new and expanding observation networks to help improve forecast skill. These efforts have increased, and continue to increase, the value of forecast information to everyone.

Reference:

- Node.js is an open-source and cross-platform JavaScript runtime environment. It is a popular tool for almost any kind of project!Node.js runs the V8 JavaScript engine, the core of Google Chrome, outside of the browser. This allows Node.js to be very performant.
  Link: https://nodejs.org/en/docs/
- Express is the most popular Node web framework, and is the underlying library for a number of other popular Node web frameworks. It provides mechanisms to: Write handlers for requests with different HTTP verbs at different URL paths (routes). Integrate with "view" rendering engines in order to generate responses by inserting data into templates. Set common web application settings like the port to use for connecting, and the location of templates that are used for rendering the response. Add additional request processing "middleware" at any point within the request handling pipeline.
  Link: https://expressjs.com/en/5x/api.html#express
- What is EJS used for EJS or Embedded Javascript Templating is a templating engine used by Node.js. The template engine helps to create an HTML template with minimal code. Also, it can inject data into the HTML template at the client-side and produce the final HTML.
  Link: https://ejs.co/#docs

JSPM's
Imperial College of Engineering and Research, Wagholi, Pune.
(Approved by AICTE, Delhi & Govt. of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
Phone No. 020-67335102 **website**: www.icoer.in **Email**- principal.imperial2016@gmail.com

PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R.S. DESHPANDE
PRINCIPAL

Project-based learning

JSPM's
Imperial College of Engineering and Research, Wagholi, Pune.
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PROF. DR.T.J.SAWANT
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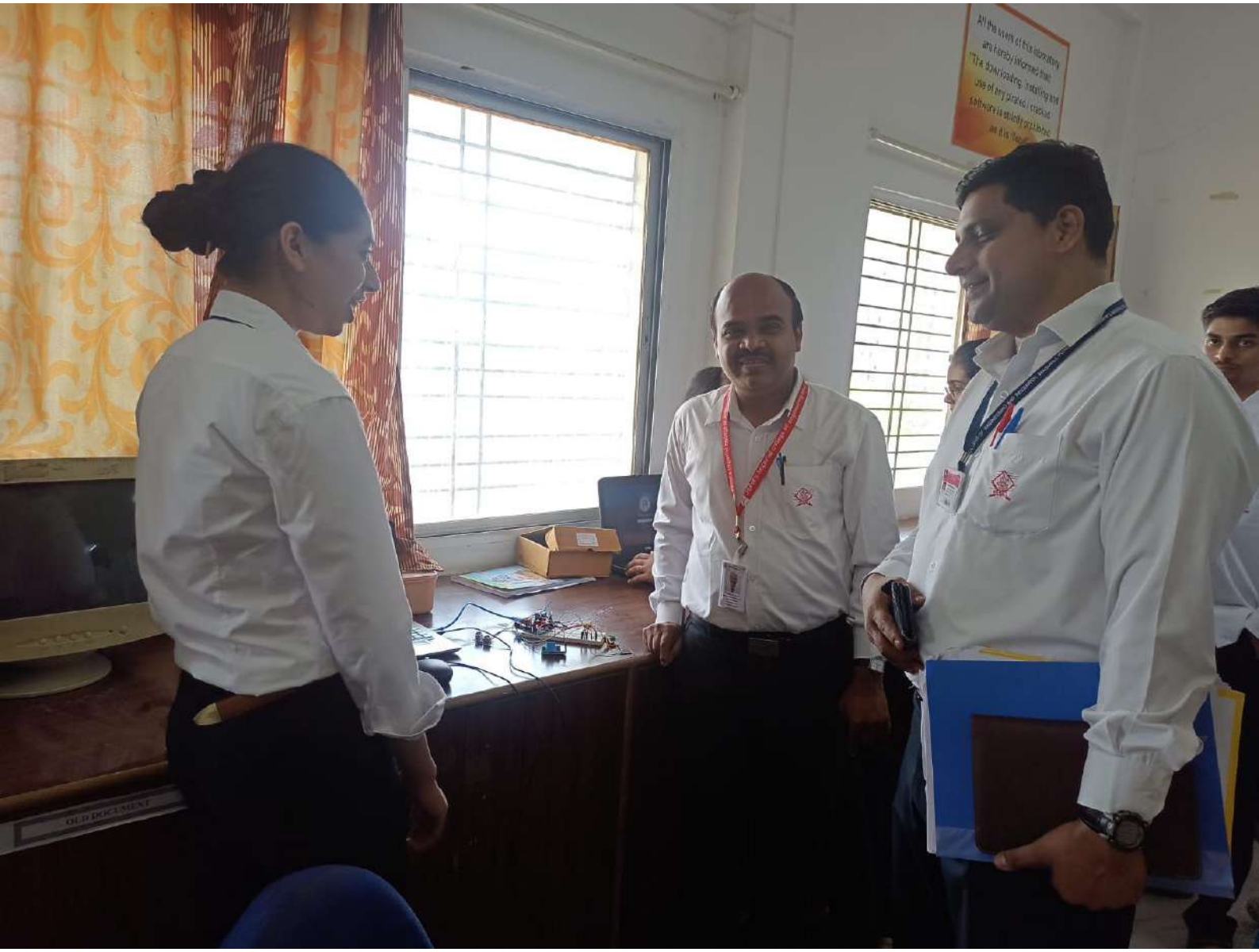
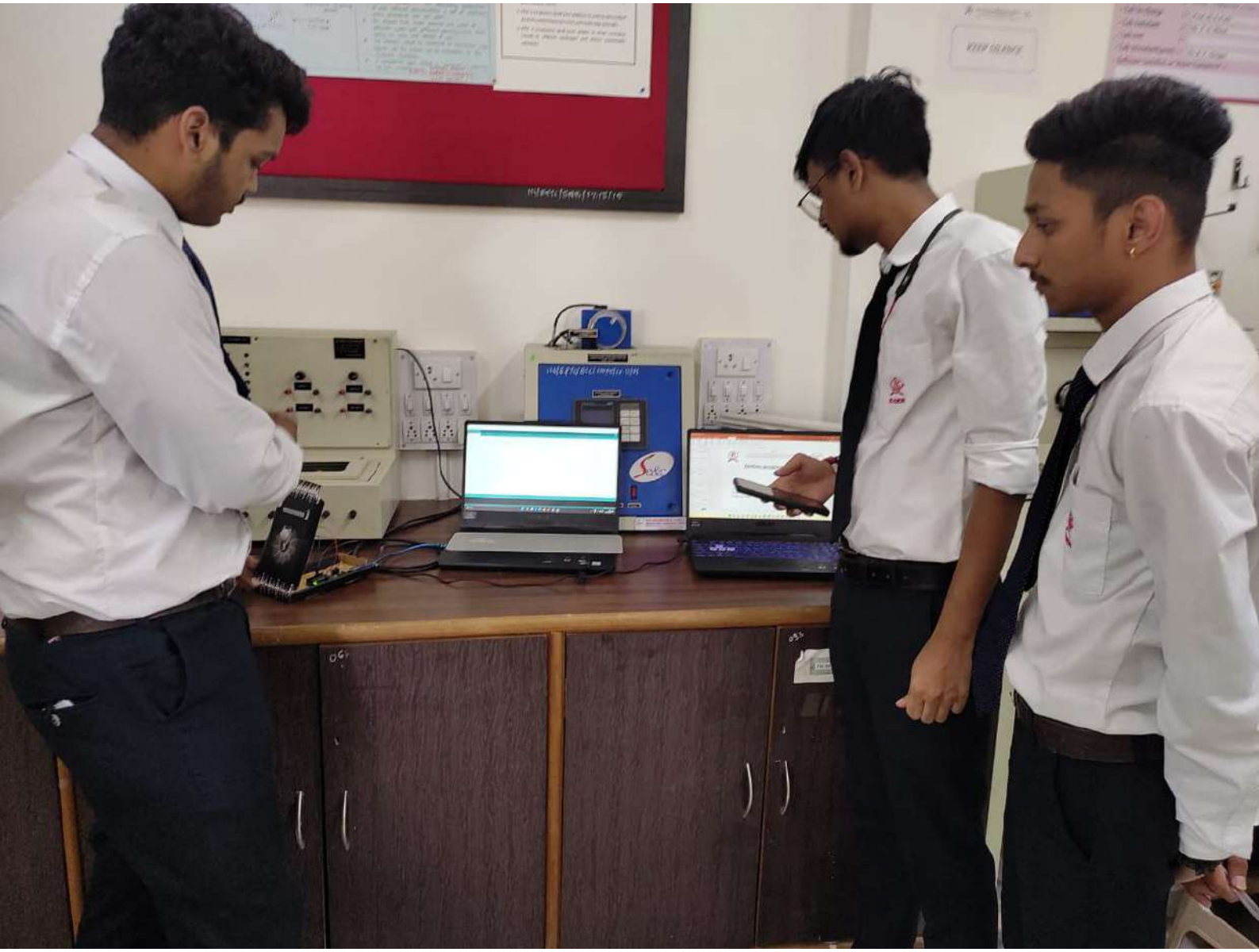
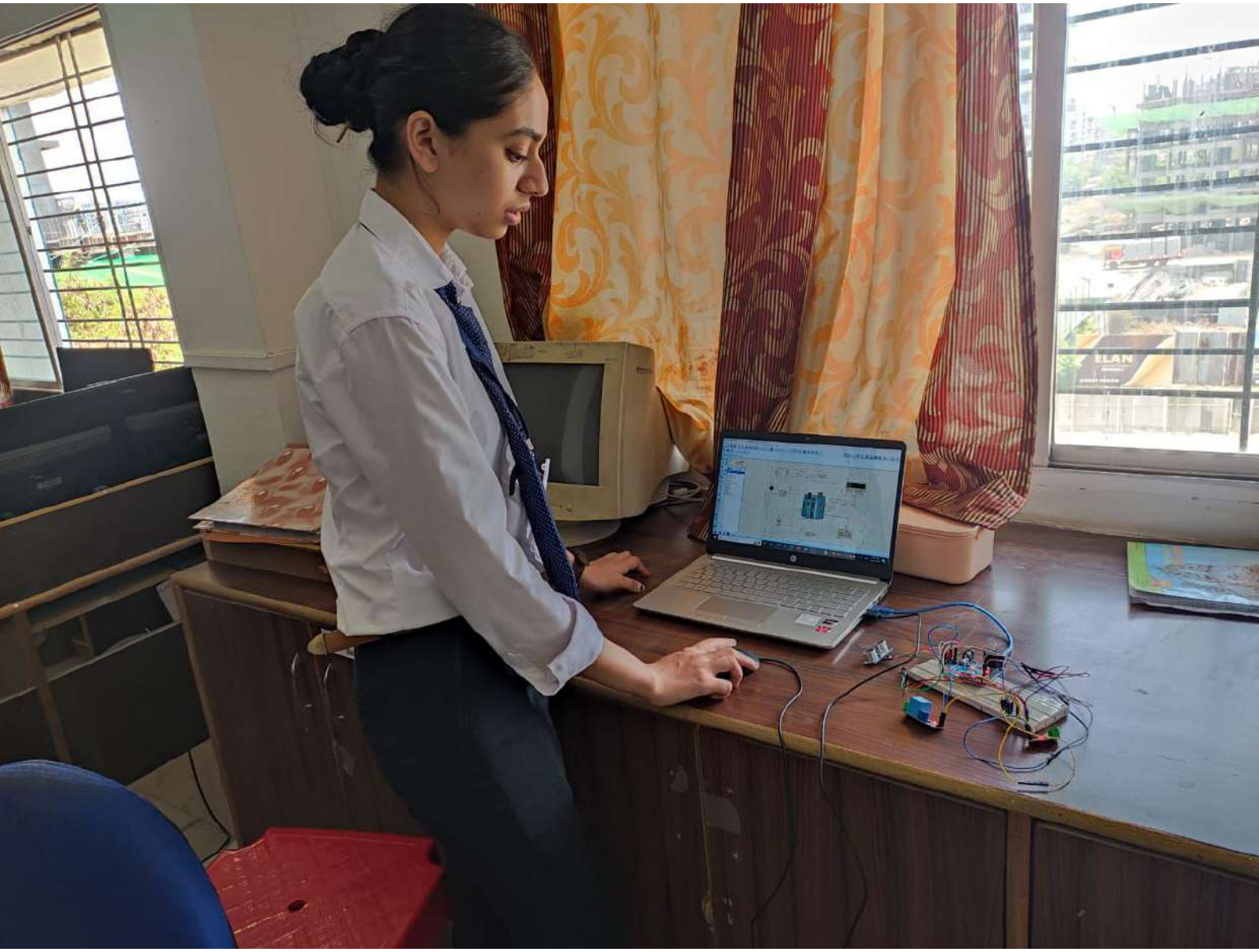
DR.R.S. DESHPANDE
PRINCIPAL




POCO
SHOT ON POCO F1




SAMPLING THEOREM-02
CLASS C -02



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(Approved by AICTE, Delhi & Govt. of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
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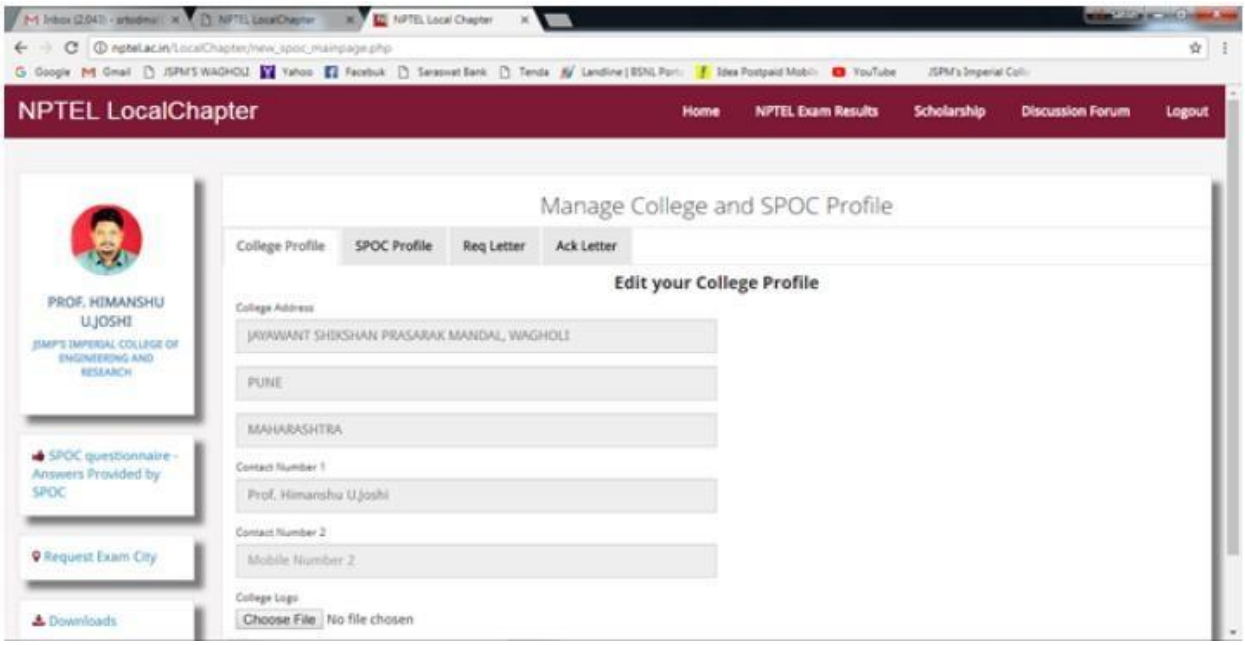
PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R.S. DESHPANDE
PRINCIPAL

MOOC/ NPTEL Courses

The institute has established under A Project funded by MHRD, Govt. of India, NPTEL local chapter IIT madras, in line with the above initiatives; the dept has actively pursued the usage ofE-learning. To take this initiative forward and to encourage more students across colleges to participate in this initiative, this will be under the headship of a faculty member of the department, who would be our Single Point of Contact (SPOC).



JSPM's
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Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
Phone No. 020-67335102 **website**: www.icoer.in **Email**- principal.imperial2016@gmail.com

PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R.S. DESHPANDE
PRINCIPAL

NPTEL courses attended by students (few samples)

Sr. No.	Name of students	Title of course	Course date	AY
1	Korade Nilesh Vijay	Engineering Thermodynamics	Sept-Dec2022	2022-23
2	Shahensha Pathan	Java	Sept-Dec2022	2022-23
3	Anisha Prataprao Patil	Foundation course in managerial economics	Jan-Mar 2022	21-22
4	Suraj Satish Patil	Foundation course in managerial economics	Jan-Mar 2022	21-22
5	Rehmatullah Shaikh	Automation In Manufacturing	Sept-Dec2020	2020-21
6	Ayush Kumar Singh	Solid Mechanic	Jan-Mar 2020	2019-20

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Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
Phone No. 020-67335102 **website**: www.icoer.in **Email**- principal.imperial2016@gmail.com

PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R.S. DESHPANDE
PRINCIPAL

Sample NPTEL online course certificate

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG43S34111098

To
SURAJ SATISH PATIL
INDRAYANI SOCIETY AL/3/29 SECTOR 19
MAHARASHTRA - 400708
PH. NO :8830936554

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SURAJ SATISH PATIL

for successfully completing the course

Foundation Course in Managerial Economics

with a consolidated score of **66** %

Online Assignments	20.42/25	Proctored Exam	45.92/75

Total number of candidates certified in this course: **1762**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No:NPTEL22MG43S34111098 To validate and check scores: https://nptel.ac.in/noc

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE09S44111940

To
ADINATH VISHWANATH KALE
AT. BASWANTPUR. TQ. LATUR DIST.LATUR
S.NO 40 NEAR KAPSE WORKSHOP,PUNE-411036
BASWANTPUR
MAHARASHTRA - 413512
PH. NO :7745003329

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

ADINATH VISHWANATH KALE

for successfully completing the course

Development and Applications of Special Concretes

with a consolidated score of **46** %

Online Assignments	16.25/25	Proctored Exam	30/75

Total number of candidates certified in this course: **139**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Mar 2022
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG43S44112110

To
ANISHA PRATAPRAO PATIL
INDRAYANI SOCIETY AL/3/29 SECTOR 19
MAHARASHTRA - 400708
PH. NO :7506067107

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

ANISHA PRATAPRAO PATIL

for successfully completing the course

Foundation Course in Managerial Economics

with a consolidated score of **55** %

Online Assignments	20/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: **1762**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

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Roll No: NPTEL22MG43S44112110

To
ANISHA PRATAPRAO PATIL
INDRAYANI SOCIETY AL/3/29 SECTOR 19
MAHARASHTRA - 400708
PH. NO :7506067107

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

ANISHA PRATAPRAO PATIL

for successfully completing the course

Foundation Course in Managerial Economics

with a consolidated score of **55** %

Online Assignments	20/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: **1762**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE39S24061548

To
RAHUL MANGESH CHAVAN
A 902 POLITE PANORAMA SOCITY
GAIKWAD NAGAR DIGHI
PUNE
MAHARASHTRA - 411015
PH. NO :7057570339

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

RAHUL MANGESH CHAVAN

for successfully completing the course

Safety in Construction

with a consolidated score of **71** %

Online Assignments	21.25/25	Proctored Exam	49.72/75

Total number of candidates certified in this course: **1898**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Feb-Apr 2022
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

Roll No: NPTEL20HS87S52510284

To
ROHIT YADAV
O-5/C, SVN COLONY, 104 AREA
MARRIPALEM
VISHAKAPATNAM
ANDHRA PRADESH - 530018
PH. NO :7032435619

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

ROHIT YADAV

for successfully completing the course

German - I

with a consolidated score of **68** %

Online Assignments	21.75/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: **951**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Sep-Dec 2020
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL20HS87S52510284

To validate and check scores: https://nptel.ac.in/noc

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG43S34111098

To
SURAJ SATISH PATIL
INDRAYANI SOCIETY AL/3/29 SECTOR 19
MAHARASHTRA - 400708
PH. NO :8830936554

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SURAJ SATISH PATIL

for successfully completing the course

Foundation Course in Managerial Economics

with a consolidated score of **66** %

Online Assignments	20.42/25	Proctored Exam	45.92/75

Total number of candidates certified in this course: **1762**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG43S34111098

To
SURAJ SATISH PATIL
INDRAYANI SOCIETY AL/3/29 SECTOR 19
MAHARASHTRA - 400708
PH. NO :8830936554

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

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Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SURAJ SATISH PATIL

for successfully completing the course

Foundation Course in Managerial Economics

with a consolidated score of **66** %

Online Assignments	20.42/25	Proctored Exam	45.92/75

Total number of candidates certified in this course: **1762**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Mar 2022
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Criterion – II: Teaching Learning & Evaluation

Publication of technical magazines, newsletters, etc.

Departments provides an equal opportunity to express student, faculty and department through newsletters, institute magazine. Departments publishes newsletter once in semester on 15th August and 26th January on the occasion of independence and republic days. These newsletters focus on the departmental achievements, event held and upcoming target areas. Institute magazine is institute level platform to student and faculty to put their technical, social and techno-social views. Dissemination of publication through notice board, limiting to hard copies and soft copies is done to students.

Table 1: List of Publication of Technical Magazines

Sr. No.	Particulars	Academic Year	Frequency of Publication
1	'ECSTASY' Institute Magazine	2017-18	Once in Year
2	'ECSTASY' Institute Magazine	2018-19	Once in Year
3	'ECSTASY' Institute Magazine	2019-20	Once in Year
4	'ECSTASY' Institute Magazine	2020-21	Once in Year
5	'ECSTASY' Institute Magazine	2021-22	Once in Year

Table 2 Technical Magazine Committee

Sr. No.	Committee Name	Committee Member
1	Chief Editor	Principal
2	Faculty Advisory Committee	Faculty from each department
3	Editors (Language Team)	Students

4	Photography	Students
5	Interview Section	Students
6	Social Activity	Students
7	Sketches and Drawing	Students
8	Cover Page Designer	Students
9	Design Committee	Students

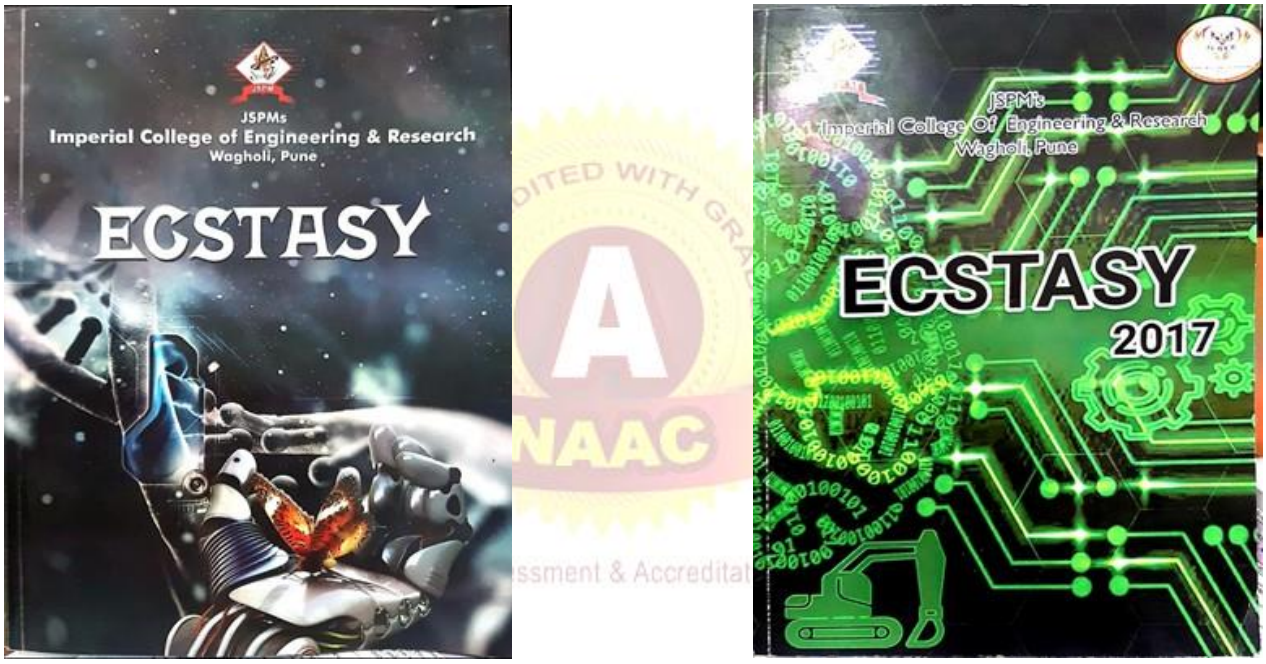

Figure 1: Screenshots of Institute Magazine (Cover Page)

Table 3: List of Publication of Newsletters

Sr. No.	Particulars	Academic Year	Date of Publication
1	'RACHANA' Departmental Newsletter	2017-18	15/08/2017
2	'RACHANA' Departmental Newsletter		26/01/2018
3	'RACHANA' Departmental Newsletter	2018-19	15/08/2018
4	'RACHANA' Departmental Newsletter		26/01/2019
5	'RACHANA' Departmental Newsletter	2019-20	15/08/2019
6	'RACHANA' Departmental Newsletter		26/01/2020
7	'RACHANA' Departmental Newsletter	2020-21	30/03/2021
8	'RACHANA' Departmental Newsletter	2021-22	15/08/2022

News Letter published on 26th Jan 2018

News Letter published on 15th Aug 2018

News Letter published on 26th Jan 2019

News Letter published on 26th Jan 2020

Figure .2 Screenshots of Newsletters