Department of

ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course

on

Artificial Intelligence using Python

Date : 04.01.2023 to 10.01.2023   **Class : II ECE**

No. of Participants: 30

Academic Year: 2022-2023

(Even Semester)

1.	Academic Year	:	2022-2023
2.	Regulation	:	2021
3.	Department Name	:	Electronics and Communication Engineering
4.	Name of the Value Added Course	:	Artificial Intelligence using Python
5.	No. of Credits	:	2
6.	Category: Theory/Lab/Hands-on/Skill based etc	:	Hands-on
7.	Name and Details of the Joint-organization (industry/NGO etc) if any	:	Pantech eLearning Pvt. Ltd., Chennai
8.	Resource person details	:	Mr.N.K.Naresh Raja and Mr.S.Manish Kumar
9.	Three Member Committee details	:	1. Dr. R. Suresh Babu, HoD/ECE 2. Dr. T. Prathiba, Coordinator 3. Er. S. Alwyn Rajiv, Chairperson
10.	VAC Coordinator Details	:	Dr. T. Parthiba, AP/ECE Er. S. Alwyn Rajiv, AP/ECE
11.	Duration (30 h mandatory)	:	45 Hours
12.	Period	:	04.01.2023 to 10.01.2023 (6 Days)
13.	Venue	:	ECE Lab IV (VLSI Design Lab)

Mark Statement

Department: Electronics and Communication Engineering   **Regulation:R2021**

Year: II   **Semester: IV**

Sl.No.	Roll No.	Reg. No.	Student Name	Internal Marks (40)	External Marks (60)	Total (100)
1	21UEC001	920421106028	PADMA LOKSHANA.M	32	48	80
2	21UEC002	920421106002	ABISHEK BABU.R.J	33	42	75
3	21UEC006	920421106029	PARTHASARATHY.P	37	46	83
4	21UEC008	920421106016	KAMALI.M	29	42	71
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	31	40	71
6	21UEC012	920421106030	PAVITHRA.M	32	44	76
7	21UEC015	920421106049	SWETHA.R.U	28	52	80
8	21UEC017	920421106009	DHARMESH KANNAN.V	28	46	74
9	21UEC018	920421106019	KEERTHI.G	28	56	84
10	21UEC019	920421106004	ANU KARTHIGA.A	32	34	66
11	21UEC021	920421106038	SARAN.V	33	30	63
12	21UEC024	920421106031	PREMA.E	32	40	72
13	21UEC025	920421106006	BOOBALAN.S	37	48	85
14	21UEC027	920421106022	MUHAMED SABEER ALI S	AB	AB	AB
15	21UEC028	920421106050	THANGAMAREESWARI.T	28	56	84
16	21UEC029	920421106033	RAMAR.A	37	42	79
17	21UEC030	920421106045	SOORYA NARAYANAN.S	35	56	91
18	21UEC034	920421106036	RANJITH RAJ.L	30	36	66
19	21UEC036	920421106037	RITHISH ARUN VARUNA.M	28	46	74
20	21UEC037	920421106053	VISHVA.S	35	50	85
21	21UEC039	920421106027	NOBLE RICHARD.L	31	44	75
22	21UEC041	920421106047	SUKIS KRISHNA.P	28	50	78
23	21UEC044	920421106044	SIYON.C	31	26	57
24	21UEC045	920421106052	VISHAL.M.A	30	52	82
25	21UEC047	920421106034	RAMJI.B.G	30	48	78
26	21UEC052	920421106023	MUTHU BHARATHI.P	35	50	85

Department: Electronics and Communication Engineering   **Regulation:R2021**

Year: II   **Semester: IV**

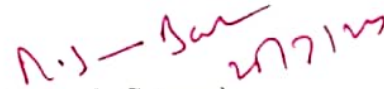| .No.	Roll No.	Reg. No.	Student Name	Internal Marks (40)	External Marks (60)	Total (100)
27	21UEC053	920421106041	SENTHIL MURUGAN.K	33	36	69
28	21UEC054	920421106043	SHVETHA.M	32	46	78
29	21UEC055	920421106012	DIVYA.S	29	42	71
30	21UEC056	920421106011	DHIVYA DHARSHINI.A	32	44	76

Guidelines / Assessment of VAC:

1. Internal 40 Marks. Preferably Assignments such as mini projects, presentations, worksheets, etc.
2. External 60 Marks. MCQs type.
   MCQs Type question paper pattern : Part A – 30 x 2 = 60 Marks
   Total (IM + EM): 100 Marks
   Passing Criteria: 50 Marks
   No revaluation and no re-exam will be entertained.
3. Mode of External Exam: Online proctored mode
4. Duration of the Exam: 1 h 30 min

VAC Coordinator

HoD
25/7/23

Dean (Academic Courses)
27/7/23

Encl:

1. **Syllabus Copy**
2. BoS Approval
3. Three Member Committee MoM
4. Geo-Tagged Photos
5. Certificates of all participants
6. Questionnaire
7. Attendance Sheet
8. Evaluated Answer script
9. Test Report
10. Feedback form
11. Feedback analysis
12. Students' oral feedback (recorded video)

Department of Electronics and Communication Engineering

Course Code	Course Name	L	T	P	C
alue Added Course	Artificial Intelligence using Python	20	0	25	2

a. Preamble

Integrated course are built in a way to provide multidisciplinary knowledge in the field of Machine Learning and AI. Here the core domains must be integrated with each other and ensures a proper understanding of the topic which leads to a great learning experience which is required in industry.

b. Course Outcome

Upon successful completion of course, the students will be able to

Cos	Course Outcome	Knowledge Level
CO1	Understand the Machine Learning and Python Programming	K2
CO2	Make use of Artificial Intelligence tools to do projects on recent research challenges using Python	K3

troduction to Python and Machine Learning   10 Hours

troduction to Python Programming, Software Installation IDE, Anaconda Navigator, troduction to Machine Learning and Deep Learning Package Training Machine Learning odel, Inference from Machine Learning Mode

eras Fundamentals for Deep Learning   10 Hours

stalling Procedure of KERAS, Loading a Data, Define a Neural network in keras, Compile Keras model using the efficient numerical backend. Train a model on data, evaluate a odel on data and make predictions with the model

NN and Project Working   10 Hours

uilding a CNN model, CNN for image classification, Introduction to LSTM, GRU pplications in machine translation language modelling and sentiment

rojects & Assignments   15 Hours

Scanned with OKEN Scanner

Practical 1 : Using CSV Dataset.

Practical 2 : Using Image Classification.

Practical 3 : Building an AI application for sentiment classification

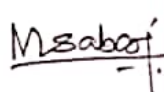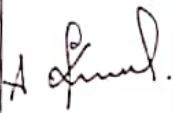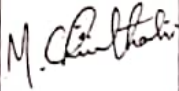Practical 4 : AI Face Recognition using Deep Learning .

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Electronics and Communication Engineering

Sixth BoS Meeting Minutes

: 11.03.2023

: 02:00PM

: VLSI Laboratory, Department of ECE

Name of the Expert	Designation	Capacity	Signature
.E.S.Gopi, Ph.D.,	Associate Professor/ECE National Institute of Technology, Tiruchirappalli, Tamil Nadu	Anna University Nominee	
. M. Sabarimalai anikandan Ph.D.,	Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Palakkad	Academic Council Nominee	Msaboi
: A Kannammal, Ph.D.,	Associate Professor/ ECE PSG College of Technology, Avinashi Rd, Peelamedu - 641004, Coimbatore	Academic Council Nominee	
r.M.Chinnathambi, M.E.,	Technical Lead Viasat India, Global Infocity, Module 1&2,5th Floor, Block C, No.40, MGR Salai, Perungudi- 600 097, Chennai.	Industrial Expert	
s.A.Anto Amala, M.E.,	Associate Staff Engineer, Samsung Semiconductor India Research, Laxmi Sagar Layout, Mahadevapura, Bengaluru, Karnataka 560048	Alumni	

rnal faculty Members of BoS

o.	Name of the Faculty	Designation	Signature
	Dr.R.Suresh Babu	Professor & Head	
	Dr.T.Pandiselvi	Associate Professor	
	Dr.N.M.Mary Sindhuja	Associate Professor	
	Dr.T.Prathiba	Assistant Professor	
	Mrs.C.Nagavani	Assistant Professor	
	Mrs.S.Nisha Rani	Assistant Professor	
	Mr.P.Aravind	Assistant Professor	
	Mr.R.Ashok	Assistant Professor	
	Mrs.M.Stella Mercy	Assistant Professor	
0.	Mr.S.Alwyn Rajiv	Assistant Professor	
1.	Mrs.P.Ramalakshmi	Assistant Professor	
2.	Mr.R.Rajprabu	Assistant Professor	

)1.00 : Welcome address by HoD

➢ Dr.R.Suresh Babu, Professor & Head welcomed all the BoS members.

)2.00 : Introduction of BoS members and new Academic Council Nominee

➢ Dr.R.Suresh Babu, introduced all the BoS Members to the gathering.

)3.00 : Approval of 5th BoS Meeting Minutes & Action taken

m).	Suggestions of BoS Members in 5th BoS Meeting	Action Taken
	Dr. D. Sriram Kumar Ph.D. gave suggestions on framing R2020-Optical communication course syllabus. He insisted to remove Unit V- Optical Networks which is a separate course. He suggested to reduce the syllabus in Unit II. He also suggested to give more number of experiments in laboratories & project work.	As per his suggestion, in R2020 and R2021, Unit V is changed as optical communication systems. The contents in Unit II were reduced. As per his suggestions, in R2021 number of experiments is increased by increasing Theory cum Laboratory courses.

2.	Dr. D. Sriram Kumar Ph.D. insisted to connect industry with guest lecture for management related courses.	Many guest lectures were conduct management related courses a. "Supply Chain Management" on 21.0 Resource Person: Mr. P.Raju, Former BPL Medical Technologies. b."Entrepreneurship and Skill Develop Program" on 23.09.2022. Resource Pe Mr.M.Koushik Venkatraman, Mahatma Ge National Fellow, Under Ministry of Development and Entrepreneurship. c."Ne Give up ur dream" on 17.9.2022 Reso person Mr.R.K.SureshKumar, AGM, BS Madurai 4." Entrepreneurship Training Program M (MAD - Man Against Demand) on 29.08.2 Resource person: JCI. SEN. Binu Ja Provisional National Trainer
3.	Dr. D. Sriram Kumar Ph.D. suggested to include software based experiments for Optical, Microwave and Wireless.	LABVIEW and MATLAB based experim are included in Advanced Communicat Laboratory
4.	Dr. D. Sriram Kumar Ph.D. implied to introduce NS3 in Advanced Communication laboratory	Included experiments based on NS3 Advanced Communication Laboratory
5.	Dr. D. Sriram Kumar Ph.D. insisted to remove Microwave Communication course which is suitable for PG course. He suggested to include one more text book in Multimedia Communication course.	Removed Microwave Communication cou Included one more text book in Multime Communication course.
6.	Dr. D. Sriram Kumar Ph.D. gave suggestion for Unit V in Wireless Networks. Since the unit titled 4G & Beyond, Introduction to future Wireless Networks topic can be included which may deal with 5G/6G networks.	Introduction to future Wireless Networks top has been included in Wireless Networ course.

Dr. D. Sriram Kumar Ph.D. insisted that Intellectual Property Rights course may be included.	Intellectual Property Rights course is included
Dr. D. Sriram Kumar Ph.D. insisted in Principles of Cryptography course, include 2 units on Steganography and change the title of the course as Cryptography & Steganography.	Steganography is included and the title of the course Principles of Cryptography is changed as Principles of Cryptography & Steganography.
Mr. M. Chinnathambi, M.E., insisted to include topics RSA, EEC, open SSL algorithm in Principles of Cryptography course.	RSA, EEC, open SSL algorithm is included in Principles of Cryptography course.
Dr. D. Sriram Kumar Ph.D. suggested to include SDMA in Satellite Communication. He also insisted to include applications in V unit of all the courses. He also insisted to combine the Basics of MEMS and NEMS course and BioMEMS course as a single course.	Included SDMA in Satellite Communication course. Applications are included in all the courses. Basics of MEMS and NEMS course is changed as BioMEMS.
Dr. D. Sriram Kumar Ph.D. insisted to remove the course Photonic Networks from open elective courses. Instead of that Electronic Packaging may be included and arrange industry people to teach Electronic Packaging course.	Removed the course Photonic Networks from open elective courses. Electronic Packaging course is included.
Dr. E. S. Gopi, Ph.D., suggested to include prerequisites for open elective courses in Unit I if it is not mentioned.	Basics are included in all the Open Elective courses in Unit I
Dr. E. S. Gopi, Ph.D., insisted to include online courses in R2021.	In all the verticals, 2 online courses (NPTEL) are included

> BoS members approved the 5th BoS Meeting Minutes and Action taken.

06.04.00 : ITEMS FOR DISCUSSION AND APPROVAL

> The Hod presented the curriculum and syllabi of R2021 and listed the subjects ontro and VI semester courses including the verticals and minor degree courses off department of ECE.

006.04.01 : Proposed Curriculum and Syllabi for V and VI semester Verticals and Min

> Dr.E.S.Gopi, Ph.D., suggested to include prerequisites for each subjects Professional elective list.

> Dr.E.S.Gopi, Ph.D., insisted to have some of the courses as industry base mb partially it can be handled by the experts from industry.

> Dr.E.S.Gopi, Ph.D., also suggested to have Data Analytics as a common cour all the departments.

> Dr. M. Sabarimalai Manikandan Ph.D., insisted to give Open ended projects a ...the departments.

V Semester – Core Courses

Name of the Course	Suggestions from BoS members
Wireless Communication	Approved the course and syllabus
Electromagnetic Fields and Transmission Lines	Approved the course and syllabus
VLSI Design and Technology	Approved the course and syllabus
VLSI Design Laboratory	Approved the course and syllabus
Advanced Communication Laboratory	Approved the course and syllabus

VI Semester – Core Courses

Name of the Course	Suggestions from BoS members
Embedded and Real Time Systems	Dr.E.S.Gopi, Ph.D., and Dr. M. Sabarimalai Manikandan Ph.D., suggested to include Microprocessor as 1 unit in Embedded and modify the course name as Microprocessor and Embedded Systems

ontrol Systems Engineering	Dr.E.S.Gopi, Ph.D., insisted to combine control systems with Signals and Systems. Include the course Statistical Theory of Communication which may include Detection, Estimation and Information Coding. Dr.T.Prathiba suggested to bring the course Artificial Intelligence and Machine Learning in VI Semester. Move the course Statistical Theory of Communication in VII Semester.
Embedded Laboratory	Dr.E.S.Gopi, Ph.D., and Dr.M.Sabarimalai Manikandan Ph.D., suggested to include Microprocessor experiments and modify the course title as Microprocessor and Embedded Systems laboratory

Professional Elective Courses (Verticals)

Name of the Course	Suggestions from BoS members
Vertical I: Semiconductor Chip Design and Testing	
Advanced Logic Design	Dr.E.S.Gopi, Ph.D., insisted to insisted to change the course as Digital VLSI Design and Technology
ASIC Design	Dr.E.S.Gopi, Ph.D., and Dr. M. Sabarimalai Manikandan Ph.D., have suggested to change the course as Analog VLSI Design
System Verilog	Dr.E.S.Gopi, Ph.D., and Dr. M. Sabarimalai Manikandan Ph.D.,have insisted to change the title of the course as SoC Design and Verification
VLSI Testing and Design for Testability	Dr.E.S.Gopi, Ph.D., and Dr. M. Sabarimalai Manikandan Ph.D.,have suggested to change the course as VLSI Architecture for Signal Processing and Machine Learning
Low power VLSI design	Approved the course and syllabus
IC Manufacturing and Packaging	Approved the course and syllabus
Semiconductor Test Engineering	Approved the course and syllabus

Vertical II: Signal Processing

Speech Processing	Dr.E.S.Gopi, Ph.D., suggested to include Acoustics concepts also. Hence the course name changed as Acoustics & Speech Processing
Digital Image Processing	Approved the course and syllabus
DSP Architecture and Programming	Dr.E.S.Gopi, Ph.D., insisted to remove this course. Instead he suggested to include Pattern recognition and Computational Intelligence course.
Advanced Digital Signal Processing	Approved the course and syllabus
Multimedia Compression Techniques	Dr. M. Sabarimalai Manikandan Ph.D., insisted to remove this course. Instead he suggested to include Deep Learning course.
RADAR Signal Processing	Dr. M. Sabarimalai Manikandan Ph.D., suggested to include SONAR topics along with RADAR. So, the course name is changed to RADAR & SONAR Signal Processing
Computer Vision	Approved the course and syllabus

Vertical III: RF and Wireless Technologies

Antenna Design	Approved the course and syllabus
Radio Frequency Integrated Circuits	Approved the course and syllabus
Microwave Engineering	Approved the course and syllabus
Electromagnetic Interference and Compatibility	Approved the course and syllabus
Optical Communication	Approved the course and syllabus
Cognitive Radio	Approved the course and syllabus
Ad hoc and Wireless Sensor Networks	Approved the course and syllabus

Vertical IV: Sensor Technologies and IoT

Microprocessor and Microcontroller	Dr. M. Sabarimalai Manikandan Ph.D., insisted to remove this course. Instead he suggested to include Sensors and Control Systems course.

Bio-sensors and Instrumentation	Dr.E.S.Gopi, Ph.D., insisted to remove this course. Instead he suggested to include MEMS & Nanoelectronics course.
Internet of Things	Approved the course and syllabus
Data Visualization in IoT	Dr.E.S.Gopi, Ph.D., suggested to change the title of the course as Data Analytics and Visualization.
RFID and Sensor Networks	Dr. M. Sabarimalai Manikandan Ph.D., suggested to remove the course RFID and include the topics of RFID and sensors in Internet of Things Course. Instead, basics of Wireless Technologies course may be included with various wireless technologies used for Sensor Technologies.
Communication Protocol and Network Security for IoT	Dr. M. Sabarimalai Manikandan Ph.D., suggested to rename the course as Device and Data Security
Industrial IoT	Approved the course and syllabus

Minor Degree in ECE

Name of the Course	Suggestions from BoS members
Basic Electronics and its Applications	Dr. M. Sabarimalai Manikandan Ph.D., suggested to rename the course as Analog Devices and Circuits.
Digital Logic Design	Approved the course and syllabus
Principles of Communication	Approved the course and syllabus
Machine Learning and Embedded Systems	Dr.E.S.Gopi, Ph.D., and Dr. M. Sabarimalai Manikandan Ph.D., verified the syllabus and insisted that machine learning and Embedded systems are two different courses and it is a dumped syllabus. Focus only on Machine Learning and the course name may be changed as Introduction to Machine Learning.
Sensors and IoT	Approved the course and syllabus
Electronic Product Design using PCB	Dr. M. Sabarimalai Manikandan Ph.D., suggested to rename the course as Electronic System Design

006.04.02 : List of Open Elective 1 courses offered

Name of the Course	Offered to	Suggestions from BoS members
IoT Concepts and Applications	EEE, MECH, Civil, MTRE and BT	Approved the course and syllabus.

006.04.03 : List of NPTEL Courses (equivalence) offered for the students those who are opting for Honours / Minor degree / alternative to professional elective courses

NPTEL COURSE	Equivalent Professional elective course
Digital Image Processing (12 weeks)	Digital Image Processing
Computer Vision (12 weeks)	Computer Vision
Deep Learning (12 weeks)	Introduction to Deep Learning
Microprocessors and Microcontrollers (12 Weeks)	Microprocessor and Microcontroller
Introduction To Industry 4.0 And Industrial Internet Of Things (12 weeks)	Industrial IoT
Digital Electronic Circuits / Digital System Design (12 weeks)	Digital Logic Design
Introduction to Machine Learning (12 Weeks)	Introduction to Machine Learning

- ➤ All the BoS members approved the above mentioned NPTEL courses for equivalent professional elective courses.
- ➤ Dr.E.S.Gopi, Ph.D., insisted the following regarding NPTEL
- ➤ NPTEL Course must be listed separately.
- ➤ In R2020, Online course is a core course. If NPTEL is the online course, then in transcript it may be printed as NPTEL course or the NPTEL course name (Which chosen by the student).
- ➤ If a student fails in NPTEL, it should not be considered as arrear if he compensa with subjects handled by the department.
- ➤ Mentor role is very important in NPTEL course.

04.04 : Tentative final year curriculum of R2021

ster VII

THEORY

S.NO.	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1	Human Values and Ethics	HSM	2	2	0	0	2
2	Management – Elective	HSM	3	3	0	0	3
3	Statistical Theory of Communication	PC	3	3	0	0	3
4	Open Elective – II	OE	3	3	0	0	3
5	Open Elective – III	OE	3	3	0	0	3
6	Open Elective – IV	OE	3	3	0	0	3
PRACTICAL							
7	Summer internship	EE	0	0	0	0	1
	TOTAL		17	17	0	0	18

ester VIII

S.NO.	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICAL							
1	Project Work	EE	20	0	0	20	10
	TOTAL		20	0	0	20	10

05.00 : ITEMS FOR RATIFICATION

05.01 : NPTEL Examination results

S. No.	Course Id	Course Title	Offered Institute	No. of Students Registered	No. of Students attended	No. of Students passed	No. of Students failed	Pass Percentage
1	noc22-hs76	Soft Skills	IIT, Roorkee	58	58	48	10	82.75%
2	noc22-cs96	Introduction to Internet of Things	IIT, Kharagpur	10	10	10	--	100%

dents Achievements in NPTEL

TEL Course on Introduction to Internet of Things

Elite + Silver	2 Students
Elite	7 Students
Successfully Completed	1 Students

NPTEL Course on Soft Skills

Elite + Silver + 5% Topper	1 Student
Elite + Silver	5 Students
Elite	30 Students
Successfully Completed	12 Students

➤ Action Plan for the students who did not receive certificate

• 10 students have registered two NPTEL courses- PoM & IoT & 20 students have reg
any one of the NPTEL courses (POM or IOT) for this semester (2022-2023 EVEN).

• Three hours are allotted in the regular time table to monitor the assignment submission

• Premia II PG student have registered the NPTEL course Communication Networks.

➤ BoS Members gave ratification for the NPTEL courses.

006.05.02 : Value Added Courses offered

The following Value Added courses for II year students (R2021) and III Year stud
(R2020) were conducted.

S. No.	Course Name	Resource Person	Participants	Date
1.	Integrated Full stack web development with IoT Networks	Incrix Techlutions ltd, Kovilpatti	II ECE (2021-2022)	22.02.2022 to 26.02.2022
2.	Embedded Systems Applications in Internet of Things (IoT)	Mr.M.Selvaraju, Director, Hands-on Technologies, Coimbatore	30 III/ECE students, 3 III/EIE students	25.08.2022 to 30.08.2022
3	Machine Learning & AI	Mr.A.Kesavan, CEO, Quantanics Techserv Pvt ltd, Madurai	31 III/ECE Students	25.08.2022 to 30.08.2022
4.	Artificial intelligence using Python	Mr. Naresh, Manish from Pantech E-learning Pvt. Ltd.	29 Students II year ECE students	4.01.2023 to 10.01.2023
5.	Internet of Things Using Arduino and Cloud	Mr. Mohan from Pantech E-learning Pvt Ltd	30 Students II year ECE students	4.01.2023 to 10.01.2023

➤ BoS members gave ratification for the above mentioned Value added courses conducted.

05.03 : Curriculum feedback and action taken if any

Collecting the curriculum feedback from the students and action plan will be taken later.

16.00: Information about the (Points Discussed in the following)

n No.	Description	Suggestions / Comments from the BoS Members
16.01	Anna University New Amendment (Honours / Honours in same discipline / Minor)	The HOD Presented the new amendments given by Anna University. i. Honours/Honours with specialization/ Minor Degree ii. Include two Audit courses – Heritage Tamil, Tamils and Technology for R2021. All the BoS members accepted the amendments

Honours/Honours with specialization/ Minor Degree

Criteria	Honours with Specialization	Honours	Minor in other specialization
Eligibility	7.5 CGPA upto III Semester	7.5 CGPA upto III Semester	7.5 CGPA upto III Semester
Additional Credit	18 Credits (6 Courses)	18 Credits (6 Courses)	18 Credits (6 Courses)
Semester	5 to 7 Semester	5 to 7 Semester	5 to 7 Semester
Programme	Same Programme	Same Programme	Other Programme or any one of the institution level Verticals
Professional Elective	Same Vertical	Different Vertical	Same Vertical
Eligibility for Honours / Minor	Pass all the courses in the first attempt	Pass all the courses in the first attempt	Pass all the courses with in the time Period

i.   Audit courses – Heritage Tamil, Tamils and Technology

S.No.	Course	Batch 2022-2023 Semester	Batch 2023-2024 onwards Semester	Credit
1	தமிழர் மரபு \ Heritage Tamils	II	I	1
2	தமிழரும் தொழில்நுட்பமும் \ Tamils and Technology	III	II	1
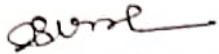
Item No.	Description	Suggestions / Comments from the BoS Members
006.06.02	Pass Percentage of students	The HOD Presented the Pass percentage year.....0 course wise for the Nov/Dec, 2022 End S..... Examination II ECE – 76.67% III ECE – 85.25% IV ECE A – 95% IV ECE B – 95%
006.06.03	Value Added Courses offered/ Planned for the academic year: 2023 - 2024	The HOD Presented the Value added course planned f..... academic year 2023-2024 1. Integrated Full stack web development with ..... Networks – 2nd Year 2. Hands on Training in Digital Design using E-Box ..... Year All the BoS Members approved the Value Added Courses
006.06.04	NBA eSAR / status and information	The HOD Happily shared the compliance report of E..... Department is submitted on 30.01.2023 and the N..... Compliance audit is scheduled on 09.04.2023. HOD happily shared the information on increase in inta..... due to the demand for ECE programme from 60 to 120 fr..... the academic year 2023-2024. All the BoS members ga..... approval to increase the intake.
006.06.05	Student Internship details (between 5th and 6th meeting)	The HOD shared the statistical data of the stude..... internship/ Inplant training details for R2020 & R2021 - In IV ECE 25 students are in Internship with stipen..... (R2017). - All the 61 students of III ECE have completed (R2020). - All the 60 Students of II ECE have completed (R2021).
006.06.06	Department Achievements	The HOD presented the following - Students' prize winning in various project competitio..... at various institutions like Maulana Azad Natior Institute of Technology, Bhopal, Tamil Nadu Scien Forum, Bannari Amman Institute of Technology, Mep Schlenk Engineering College, Kalasalingam Academy Research and Education etc.,. Co-curricul Achievements - Students' prize winning in Extra-curricular activities. - 74% of students got Placement in various core and I companies. - Faculty Achievements in getting awards, Industri..... visits, DST, TNSCST, SEED Money proposals, funde proposals applied, Journal and conference publication. Acted as resource persons in various institutions. - Two Faculty members got promoted as Associat..... Professor.

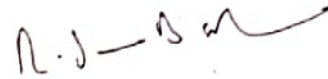7.00 : Any other Item

    ➢ Next BoS Meeting is tentatively scheduled during September 2023.

8.00 : Vote of Thanks

    ➢ The meeting ended with the Vote of Thanks by Dr.T.Prathiba, Assistant Professor, Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordinator
S.Nisha Rani, AP/ECE

BoS Chairman
Dr.R.Suresh Babu
HoD / ECE

11/1/2023

Minutes of 3 Member Committee Meeting

Member 1 - Head of the Department - Dr.R.Suresh Babu

Member 2 - Class Chairperson – Mr.S.Alwyn Rajiv

Member 3 - Course Incharge – Dr. T. Prathiba

The following points were discussed in the 3 Member Committee meeting held on 22nd Dec 2022.

1. Discussed about the Demo given by Pantech solutions on 23rd Dec 2022.

2. Decided to conduct online pre requirement session to II ECE Students on 2nd January at 2.30P.M

3. The dates of the course were decided in the meeting as 4/1/2023-10/1/2023 (6 days).

4. Discussed to conduct Mini Project contest after the completion of the course.

5. Discussed about the venue of value added program

Course In-charge   Class Chairperson   HOD/ECE

Department of Electronics and Communication Engineering
Report on Value Added Course on Artificial Intelligence using Python

Venue: ECE Lab III (VLSI Lab)/ECE
Date: 04.01.2023 to 10.01.2023

Department of Electronics and Communication Engineering organized 6 days Value Added Course on 'Artificial Intelligence using Python' for II ECE students from **04.01.2023 to 10.01.2023** (except 08.01.20223). Totally 29 students from II ECE have attended the course. Inaugural function of the value-added course was held on 04.01.2023, 09.30am. Function started with the prayer song. Dr.T.Prathiba, AP/ECE welcomed the gathering., Dr.R.Suresh Babu, Professor and Head/ECE gave the inaugural address with encouragement to attend the course. The session was handed over to the resource persons from Pantech eLearning Pvt. Ltd., Chennai. Mr.N.K.Naresh Raja and Mr.S.Manish Kumar have handled the sessions during the course.

Valedictory function of Value Added course was held on 10.01.2023 at 03.30pm. Dr.R.Suresh Babu, Professor and Head/ECE proposed the valedictory address. Online feedback and oral feedback were collected from the students. Best Performer in the online test conducted was honored with a gift from Dr.R.Suresh Babu sir. Mr.R.Ashok, AP/ECE, coordinator of the value added course proposed the vote of thanks. The session ended with National Anthem.

Dr.T.Prathiba, Assistant Professor/
ECE, Welcome Address

Dr.R.Suresh Babu, Professor and
Head/ECE, Inaugural Address

Mr.Naresh Raja and Mr.Manish,
Trainers, Pantech eLearning, Chennai
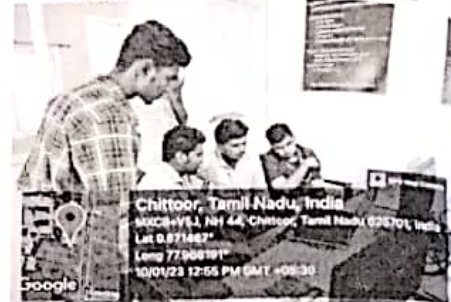
Project discussion with the students

Students oral feedback session during
valedictory function

Prize distribution for est performer in
the value added course by
Dr.R.Suresh Babu, HoD/ECE

VAC coordinators

Dr.T.Prathiba, AP/ECE & Mr.S.Alwyn Rajiv, AP/ECE

HoD/ECE

Dr.R.Suresh Babu

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

PADMA LOKSHANA.M

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 24/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

ABISHEK BABU.R.J

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 21/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

PARTHASARATHY.P

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 23/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

KAMALI.M

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 21/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SATHISH KUMAR BALAJI.R

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 20/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

PAVITHRA.M

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 22/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SWETHA.R.U

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 26/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

DHARMESH KANNAN.V

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 23/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

KEERTHI.G

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 28/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

ANU KARTHIGA.A

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 17/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SARAN.V

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 15/30

_____

DIRECTOR, PANTECH E LEARNING

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

PREMA.E

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 20/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

BOOBALAN.S

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 24/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

THANGAMAREESWARI.T

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 28/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning

DIGITAL LEARNING SIMPLIFIED

CERTIFICATE

OF COMPLETION

THIS IS TO CERTIFY THAT

RAMAR.A

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 21/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SOORYA NARAYANAN.S

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 28/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

RANJITH RAJ.L

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 18/30

_____

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

RITHISH ARUN VARUNA.M

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 23/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

VISHVA.S

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 25/30

_____
DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

NOBLE RICHARD.L

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 22/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SUKIS KRISHNA.P

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 25/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SIYON.C

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 13/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

VISHAL.M.A

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 26/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

RAMJI.B.G

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 24/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

MUTHU BHARATHI.P

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 25/30

_____

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SENTHIL MURUGAN.K

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 18/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

SHVETHA.M

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 23/30

DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

DIVYA.S

From Kamaraj College of Engineering and Technology has actively participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING PYTHON"** organized by Pantech e-learning from 04.01.2023 to 10.01.2023

Exam Score: 21/30

_____
DIRECTOR, PANTECH E LEARNING

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

DHIVYA DHARSHINI.A

From Kamaraj College of Engineering and Technology has actively

participated in the Value Added Course on **"ARTIFICIAL INTELLIGENCE USING**

PYTHON" organized by Pantech e-learning from 04.01.2023 to 10.01.2023
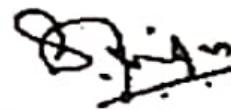
Exam Score: 22/30

DIRECTOR, PANTECH E LEARNING

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python

MCQ Question and Answer

1. **Who developed Python Programming Language?**
   a) Wick van Rossum
   b) Rasmus Lerdorf
   c) Guido van Rossum
   d) Niene Stom

   Ans : Guido van Rossum

2. **Which type of Programming does Python support?**
   a) object-oriented programming
   b) structured programming
   c) functional programming
   d) all of the mentioned

   Ans : all of the mentioned

3. **Which of the following is used to define a block of code in Python language?**
   a) Indentation
   b) Key
   c) Brackets
   d) All of the mentioned

   Ans : Indentation

4. **Which of the following character is used to give single-line comments in Python?**
   a) //
   b) #
   c) !
   d) /*

   Ans : #

5. **What does pip stand for python?**
   a) Pip Installs Python
   b) Pip Installs Packages
   c) Preferred Installer Program
   d) All of the mentioned

   Ans : Preferred Installer Program

6. **What will be the output of the following Python code?**
   ```
   >>>list1 = [1, 3]
   >>>list2 = list1
   >>>list1[0] = 4
   >>>print(list2)
   ```
   a) [1, 2, 3]
   b) [1, 3, 4]
   c) [4,3]
   d) [1,3]

   Ans: [4,3]

7. **How to use numpy ?**
   a) import numpy as np
   b) import np as numpy
   c) import num as np
   d) import np as num

   Ans: import numpy as np

8. **Name the function used to create an array?**
   a) np.array()
   b) num.array()
   c) numpy.array()
   d) n.array()

   Ans: np.array()

9. **NumPY stands for?**
   a) Numerical Python
   b) Number Python
   c) Num Python
   d) Numbering Python

   Ans : Numerical Python

10.Numpy developed by?
   a) Jim Hugunin
   b) Wes McKinney
   c) Travis Oliphant
   d) Guido van Rossum

   Ans: Travis Oliphant

11.NumPy is often used along with packages like?
   a) Node.js
   b) Matplotlib
   c) SciPy
   d) Both B and C

   Ans : Both B and C

12.What will be output for the following code?
   import numpy as np
   a = np.array([1, 2, 3], dtype = complex)
   print (a)
   a) [[1.+0.j, 2.+0.j, 3.+0.j]]
   b) [1.+0.j, 2.+0.j, 3.+0.j]
   c) [1.+0.j]
   d) [2.+0.j]

   Ans: [1.+0.j, 2.+0.j, 3.+0.j]

13.PANDAS stands for _____
   a) Panel Data Analysis
   b) Panel Data
   c) Panel Dashboard
   d) Panel Data Analyst

   Ans: Panel Data

14.Python pandas was developed by?
   a) Jim Hugunin
   b) Wes McKinney
   c) Travis Oliphant
   d) Guido van Rossum

   Ans : Wes McKinney

15. Pandas is an open-source _____ Library?
    a) Ruby
    b) Javascript
    c) Java
    d) Python

    Ans: Python

16. Pandas key data structure is called?
    a) Keyframe
    b) Dataframe
    c) Statistics
    d) Economics

    Ans: Dataframe

17. What will be output for the following code?
    import pandas as pd
    s = pd.Series([1,2,3,4,5],index = ['a','b','c','d','e'])
    print s['a'] [Score]
    a) 1
    b) 2
    c) 3
    d) 4

    Ans: 1

18. Matplotlib is _____ plotting library
    a) 1D
    b) 2D
    c) 3D
    d) Both (a) and (b)

    Ans: 2D

19. By default, Plot() function plots a
    a) Bar Chart
    b) Line Chart
    c) Pie Chart
    d) Horizontal bar Chart

    Ans: Line Chart

20. To import pyplot module we can write
   a) Import matplotlib.pyplot
   b) Import matplotlib.pyplot as plt
   c) Import pyplot as plt
   d) Both (A) and (B)

   Ans: Both (A) and (B)

21. Which of the following is not a method to create a chart using pyplot?
   a) plot( )
   b) bar( )
   c) hist( )
   d) pie( )

   Ans: hist()

22. What is Artificial Intelligence?
   a) Artificial Intelligence is a field that aims to make humans more intelligent
   b) Artificial Intelligence is a field that aims to improve the security
   c) Artificial Intelligence is a field that aims to develop intelligent machines
   d) Artificial Intelligence is a field that aims to mine the data

   Ans : Artificial Intelligence is a field that aims to develop intelligent machines

23. Who is the inventor of Artificial Intelligence?
   a) Geoffrey Hinton
   b) Andrew Ng
   c) John McCarthy
   d) Jürgen Schmidhuber

   Ans: John McCarthy

24. Which of the following is the branch of Artificial Intelligence?
   a) Machine Learning
   b) Cyber forensics
   c) Full-Stack Developer
   d) Network Design

   Ans : Machine Learning

25. Which of the following is an application of Artificial Intelligence?
   a) Language understanding and problem-solving (Text analytics and NLP)
   b) Easy to create a website
   c) It helps to deploy applications on the cloud
   d) It helps to exploit vulnerabilities to secure the firm

   Ans : Language understanding and problem-solving (Text analytics and NLP)

26. How many types of Machine Learning Techniques?
   a) 2
   b) 3
   c) 4
   d) 5

   Ans: 3

27. Machine learning is a subset of_____
   a) Artificial Intelligence
   b) Deep Learning
   c) Data Learning
   d) None of the Above

   Ans: Artificial Intelligence

28. What is true about Machine Learning?

a) ML is a type of artificial intelligence that extract patterns out of raw data by using an algorithm or method

b) The main focus of ML is to allow computer systems learn from experience without being explicitly programmed or human intervention.

c) ML is that field of Computer Science

d) All the above

Ans : All the above

29. Training a model using labeled data and using this model to predict the labels for new data is known

a) Unsupervised learning

b) Supervised Learning

c) Reinforcement learning

d) None of the above

Ans: Supervised Learning

30. Modeling the features of an unlabeled dataset to find hidden structure is known as

a) Unsupervised learning

b) Supervised Learning

c) Reinforcement learning

d) None of the above

Ans: Unsupervised Learning

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
ATTENDANCE ON 05 / 01 / 2023

S. No.	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M		
2	21UEC002	ABISHEK BABU.R.J	M.Pad.	M.Pad
3	21UEC006	PARTHASARATHY.P	Abrild	Alirld
4	21UEC008	KAMALI.M	Parthu P.	Par Puval. P
5	21UEC009	SATHISH KUMAR BALAJI.R	Komali.M	Komali
6	21UEC012	PAVITHRA.M	Bnd.	B Bd
7	21UEC015	SWETHA.R.U	M.Pathra.	M.Pathra
8	21UEC017	DHARMESH KANNAN.V	tho	tho
9	21UEC018	KEERTHI.G	v.oly.	v.oly.
10	21UEC019	ANU KARTHIGA.A	Keerthi.G.	Keerthi.G.
11	21UEC021	SARAN.V	AnuKarthiga	Anu Karthiga
12	21UEC024	PREMA.E	V.Saf	V.Baref
13	21UEC025	BOOBALAN.S	E.prema	E.Premas
14	21UEC028	THANGAMAREESWARI.T	Boobalan	Boobalan
15	21UEC029	RAMAR.A	T.Thy	T.Thay
16	21UEC030	SOORYA NARAYANAN.S	A.Ram.	A.Ram
17	21UEC034	RANJITH RAJ.L	Emur	Snnd
18	21UEC036	RITHISH ARUN VARUNA.M	S.Ranjith Raj	S.Ranjith Raj
19	21UEC037	VISHVA.S	M.Rithsh	M.Rithsh
20	21UEC039	NOBLE RICHARD.L	Du.	Du.
21	21UEC041	SUKIS KRISHNA.P	L.Noble Rit	L.Noble Rit
22	21UEC044	SIYON.C	P.Sukis krsha	P.Sukis krsha
23	21UEC045	VISHAL.M.A	C.Biyiy	C.Biyiy
24	21UEC047	RAMJI.B.G	M.A.Vishal	M.A.Vishal
25	21UEC052	MUTHU BHARATHI.P	B.G.Ram	B.G.Ranyi
26	21UEC053	SENTHIL MURUGAN.K	P.St.	P.St.
27	21UEC054	SHVETHA.M	K.Muthuul	K.Senthilmurugu
28	21UEC055	DIVYA.S	M.Shvetha.	M.Shvetha
29	21UEC056	DHIVYA DHARSHINI.A	S.Dyaub.	Divya
			Dja.Rij.A.	Dja.Rij.A

Coordinators

HoD/ECE
20/1/23

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, Chennai)
S.P.G.C. Nagar, K.Vellakulam - 625 701, near VIRUDHUNAGAR)

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python

04/01/2023 to 10/01/2023 (6 Days)

ATTENDANCE ON 04 / 01 / 2023

S. No.	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M		
2	21UEC002	ABISHEK BABU.R.J		
3	21UEC006	PARTHASARATHY.P		
4	21UEC008	KAMALI.M	Kamali.M	M.Kamali
5	21UEC009	SATHISH KUMAR BALAJI.R		
6	21UEC012	PAVITHRA.M	M.Pavithra	M.Pavithra
7	21UEC015	SWETHA.R.U		
8	21UEC017	DHARMESH KANNAN.V		
9	21UEC018	KEERTHI.G	G.Keerthi	G.Keerthi
10	21UEC019	ANU KARTHIGA.A	Anu karthiga	Anu Karthiga
11	21UEC021	SARAN.V	V.Saf	V.Saf
12	21UEC024	PREMA.E	E.Prema	E.Prema
13	21UEC025	BOOBALAN.S	Boobalan	Boobalan
14	21UEC028	THANGAMAREESWARI.T	T.Thaj	T.Thaj
15	21UEC029	RAMAR.A	D.Ram	A.Ram
16	21UEC030	SOORYA NARAYANAN.S		
17	21UEC034	RANJITH RAJ.L	L.Ranjith Raj	L.Ranjith Raj
18	21UEC036	RITHISH ARUN VARUNA.M	M.Rithish	M.Rithish
19	21UEC037	VISHVA.S		
20	21UEC039	NOBLE RICHARD.L	L.Noble Richard	L.Noble Richard
21	21UEC041	SUKIS KRISHNA.P	P.Sukis	P.Sukis
22	21UEC044	SIYON.C	C.Siyon	C.Siyon
23	21UEC045	VISHAL.M.A	M.A.Vishal	M.A.Vishal
24	21UEC047	RAMJI.B.G	B.G.Ram	B.G.Ram
25	21UEC052	MUTHU BHARATHI.P	P.Bhi	P.Bhi
26	21UEC053	SENTHIL MURUGAN K	K.Senthil murugan	K.Senthil murugan
27	21UEC054	SHVETHA.M	M.Shvetha	M.Shvetha
28	21UEC055	DIVYA.S	S.Divya	S.Divya
29	21UEC056	DHIVYA DHARSHINI.A		

Coordinators

HoD/ECE

(S. Arunraaj).

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution)

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python

04/01/2023 to 10/01/2023 (6 Days)

ATTENDANCE ON 07 / 01 / 2023

S.No	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M	M.Pad	M.Pad
2	21UEC002	ABISHEK BABU.R.J	Abishek	Abishek
3	21UEC006	PARTHASARATHY.P	Par P	Parthasarathy.P
4	21UEC008	KAMALI.M	Kamali	Kamali
5	21UEC009	SATHISH KUMAR BALAJI.R	AB	AB
6	21UEC012	PAVITHRA.M	Pavithra	Pavithra
7	21UEC015	SWETHA.R.U	Rbe	Rbe
8	21UEC017	DHARMESH KANNAN.V	V.Dhy	V.Dhy
9	21UEC018	KEERTHI.G	G. Kerthi	G. Kerthi
10	21UEC019	ANU KARTHIGA.A	Anu Keorthiga	Anu Keorthiga
11	21UEC021	SARAN.V	V.Sat	V.Sat
12	21UEC024	PREMA.E	E.Prema	E.Prema
13	21UEC025	BOOBALAN.S	Boobalan	Boobalan
14	21UEC028	THANGAMAREESWARI.T	T.Thi	T.Thi
15	21UEC029	RAMAR.A	A.Ram	A.Ram
16	21UEC030	SOORYA NARAYANAN.S	Sourya	Sourya
17	21UEC034	RANJITH RAJ.L	L.Ranjith Raj	L.Ranjith Raj
18	21UEC036	RITHISH ARUN VARUNA.M	M.R.A.R	M.PAR
19	21UEC037	VISHVA.S	S.M.	S.M.
20	21UEC039	NOBLE RICHARD.L	L.Noble Rict	L.Noble Rict
21	21UEC041	SUKIS KRISHNA.P	P.Sukis krishna	P.Sukis krishna
22	21UEC044	SIYON.C	C. Qijj	C. Qijj
23	21UEC045	VISHAL.M.A	M.A.Vishal	M.A Vishal
24	21UEC047	RAMJI.B.G	B.G. Pam	B.G. Pam
25	21UEC052	MUTHU BHARATHI.P	P.M	P.M
26	21UEC053	SENTHIL MURUGAN.K	AB	AB
27	21UEC054	SHVETHA.M	Shvetha.M	Shvetha.M
28	21UEC055	DIVYA.S	S.Divya	S.Divya
29	21UEC056	DHIVYA DHARSHINI.A	A.Dhivya Dharshini.A	A.Dhivya Dharshini.A

HoD/ECE 20/1/23

Coordinators

T.

07/1/23

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution, Affiliated to Anna University, Chennai)
VIRUDHUNAGAR

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
ATTENDANCE ON 06 / 01 / 2023

S. No.	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M		
2	21UEC002	ABISHEK BABU.R.J		
3	21UEC006	PARTHASARATHY.P		
4	21UEC008	KAMALI.M	Kamali	Kamali
5	21UEC009	SATHISH KUMAR BALAJI.R		
6	21UEC012	PAVITHRA.M		
7	21UEC015	SWETHA.R.U		
8	21UEC017	DHARMESH KANNAN.V	V.Dhy	V.Dhy
9	21UEC018	KEERTHI.G	Keerthi G	G.Keerthi
10	21UEC019	ANU KARTHIGA.A	Anu Karthiga	Anu Karthiga
11	21UEC021	SARAN.V	AB	AB
12	21UEC024	PREMA.E	E.Prema	E.Prema
13	21UEC025	BOOBALAN.S	Boobalan	Boobalan
14	21UEC028	THANGAMAREESWARI.T	T.Thy	T.Thy
15	21UEC029	RAMAR.A		
16	21UEC030	SOORYA NARAYANAN.S		
17	21UEC034	RANJITH RAJ.L	L.Ranjith Raj	L.Ranjith Raj
18	21UEC036	RITHISH ARUN VARUNA.M	M.Rithish	M.Rithish
19	21UEC037	VISHVA.S		
20	21UEC039	NOBLE RICHARD.L	Noble Rht	Noble Rht
21	21UEC041	SUKIS KRISHNA.P	P.Sukis Krishna	P.Sukis Krishna
22	21UEC044	SIYON.C	C.Rigy	C.Rigy
23	21UEC045	VISHAL,M.A	M.A.Vishal	M.A.Vishal
24	21UEC047	RAMJI.B.G	B.G.Ramy	B.G.Ramy
25	21UEC052	MUTHU BHARATHI.P	P.Rd.	P.Rd.
26	21UEC053	SENTHIL MURUGAN.K	AB	AB
27	21UEC054	SHVETHA.M	shvetha M	Shvetha
28	21UEC055	DIVYA.S	S.Divya	S.Divya
29	21UEC056	DHIVYA DHARSHINI.A		

Coordinators

06/01/23

(S.Alwarmathi)

HoD/ECE

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution)

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
ATTENDANCE ON 09 / 01 / 2023

S.No	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M		
2	21UEC002	ABISHEK BABU.R.J		
3	21UEC006	PARTHASARATHY.P		
4	21UEC008	KAMALI.M	Kamali	Kamali
5	21UEC009	SATHISH KUMAR BALAJI.R	AB	AB
6	21UEC012	PAVITHRA.M	M.Pavithra	M.Pavithra
7	21UEC015	SWETHA.R.U		
8	21UEC017	DHARMESH KANNAN.V	V.Dha	V.Dha
9	21UEC018	KEERTHI.G	G.	G.
10	21UEC019	ANU KARTHIGA.A	Anu Karthiga	Anu Karthiga
11	21UEC021	SARAN.V	V.	V.
12	21UEC024	PREMA.E	E.Prema	E.Prema
13	21UEC025	BOOBALAN.S		
14	21UEC028	THANGAMAREESWARI.T	T.Thy	T.Thy
15	21UEC029	RAMAR.A	A.Ra	A.Ra
16	21UEC030	SOORYA NARAYANAN.S	Soorya	Soorya
17	21UEC034	RANJITH RAJ.L	L.Raj	L.Raj
18	21UEC036	RITHISH ARUN VARUNA.M	M.Rith	M.Rith
19	21UEC037	VISHVA.S	S.Vis	S.Vis
20	21UEC039	NOBLE RICHARD.L	L.Noble	L.Noble
21	21UEC041	SUKIS KRISHNA.P	P.Sukis	P.Sukis
22	21UEC044	SIYON.C	C.	C.
23	21UEC045	VISHAL.M.A	M.A.Vishal	M.A.Vishal
24	21UEC047	RAMJI.B.G	B.G.Ram	B.G.Ram
25	21UEC052	MUTHU BHARATHI.P	P.	P.
26	21UEC053	SENTHIL MURUGAN.K	K.Senthil Murugan	K.Senthil Murugan
27	21UEC054	SHVETHA.M	Swetha.M	Swetha.M
28	21UEC055	DIVYA.S	S.Divya	S.Divya
29	21UEC056	DHIVYA DHARSHINI.A	Dhivya	Dhivya

Coordinators

(S.ALKVjsRAJN).

HoD/ECE

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR)

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
ATTENDANCE ON 10 / 01 / 2023

S. No.	Roll Number	Name of the Student	FN	AN
1	21UEC001	PADMA LOKSHANA.M		
2	21UEC002	ABISHEK BABU.R.J		
3	21UEC006	PARTHASARATHY.P		
4	21UEC008	KAMALI.M		
5	21UEC009	SATHISH KUMAR BALAJI.R		
6	21UEC012	PAVITHRA.M		
7	21UEC015	SWETHA.R.U		
8	21UEC017	DHARMESH KANNAN.V		
9	21UEC018	KEERTHI.G		
10	21UEC019	ANU KARTHIGA.A		
11	21UEC021	SARAN.V		
12	21UEC024	PREMA.E		
13	21UEC025	BOOBALAN.S		
14.	21UEC028	THANGAMAREESWARI.T		
15	21UEC029	RAMAR.A		
16	21UEC030	SOORYA NARAYANAN.S		
17	21UEC034	RANJITH RAJ.L		
18	21UEC036	RITHISH ARUN VARUNA.M		
19	21UEC037	VISHVA.S		
20	21UEC039	NOBLE RICHARD.L		
21	21UEC041	SUKIS KRISHNA.P		
22	21UEC044	SIYON.C		
23	21UEC045	VISHAL.M.A		
24	21UEC047	RAMJI.B.G		
25	21UEC052	MUTHU BHARATHI.P		
26	21UEC053	SENTHIL MURUGAN.K		
27	21UEC054	SHVETHA.M		
28	21UEC055	DIVYA.S		
29	21UEC056	DHIVYA DHARSHINI.A		

Coordinators

HoD/ECE

Scanned with OKEN Scanner

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution)

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
External Mark Report

S.No	Timestamp	Name of the Student	Mark (30)
1	2023/01/10 2:26:14 PM GMT+5:30	Padma Lokshana M	24.00 / 30
2	2023/01/10 2:26:17 PM GMT+5:30	L.Prema	20.00 / 30
3	2023/01/10 2:30:52 PM GMT+5:30	Siyon.c	13.00 / 30
4	2023/01/10 2:30:59 PM GMT+5:30	S.Boobalan	24.00 / 30
5	2023/01/10 2:31:25 PM GMT+5:30	Vishva.S	25.00 / 30
6	2023/01/10 2:31:33 PM GMT+5:30	M.Rithish ArunVarna	23.00 / 30
7	2023/01/10 2:32:36 PM GMT+5:30	Sathish Kumar Balaji.R	20.00 / 30
8	2023/01/10 2:32:51 PM GMT+5:30	L.Noble Richard	22.00 / 30
9	2023/01/10 2:33:21 PM GMT+5:30	R.U.Swetha	26.00 / 30
10	2023/01/10 2:33:36 PM GMT+5:30	P.Muthu Bharathi	25.00 / 30
11	2023/01/10 2:35:39 PM GMT+5:30	ABISHEK BABU.R.J	21.00 / 30
12	2023/01/10 2:36:11 PM GMT+5:30	M.Pavithra	22.00 / 30
13	2023/01/10 2:36:15 PM GMT+5:30	M.Shvetha	23.00 / 30
14	2023/01/10 2:36:29 PM GMT+5:30	Dhivya Dharshini A	22.00 / 30
15	2023/01/10 2:36:39 PM GMT+5:30	p.sukiskrishna	25.00 / 30
16	2023/01/10 2:37:07 PM GMT+5:30	V.Dharmesh kannan	23.00 / 30
17	2023/01/10 2:37:21 PM GMT+5:30	S.Sooriya narayanan	28.00 / 30
18	2023/01/10 2:37:30 PM GMT+5:30	G.Keerthi	28.00 / 30
19	2023/01/10 2:38:04 PM GMT+5:30	T.Thangamareeswari	28.00 / 30
20	2023/01/10 2:38:09 PM GMT+5:30	V.Saran	15.00 / 30
21	2023/01/10 2:38:12 PM GMT+5:30	M.A.Vishal	26.00 / 30
22	2023/01/10 2:38:22 PM GMT+5:30	RAMAR.A	21.00 / 30
23	2023/01/10 2:38:48 PM GMT+5:30	k.Senthil Murugan	18.00 / 30
24	2023/01/10 2:38:51 PM GMT+5:30	L.Ranjith Raj	18.00 / 30

S. No.	Timestamp	Name of the Student	Mark (30)
25	2023/01/10 2:41:02 PM GMT+5:30	B.G.RAMJI	24.00 / 30
26	2023/01/10 2:46:02 PM GMT+5:30	PARTHASARATHY P	23.00 / 30
27	2023/01/10 2:46:49 PM GMT+5:30	Divya.s	21.00 / 30
28	2023/01/10 2:46:57 PM GMT+5:30	M.kamali	21.00 / 30
29	2023/01/10 2:58:51 PM GMT+5:30	A.ANU KARTHIGA	17.00 / 30

Coordinators

HoD/ECE

The Value Added Course on "Artificial Intelligence using Python" organized by Pantech E-Learning from 04.01.2023 to 10.01.2023, Herewith mentioned the student's evaluation mark based on MCQ test conducted on 10.01.2023.
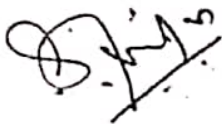
30/08/2023

S.No.	Roll Number	Register Number	Name of the Student	Mark(30)
1	21UEC001	920421106028	PADMA LOKSHANA.M	24
2	21UEC002	920421106002	ABISHEK BABU.R.J	21
3	21UEC006	920421106029	PARTHASARATHY.P	23
4	21UEC008	920421106016	KAMALI.M	21
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	20
6	21UEC012	920421106030	PAVITHRA.M	22
7	21UEC015	920421106049	SWETHA.R.U	26
8	21UEC017	920421106009	DHARMESH KANNAN.V	23
9	21UEC018	920421106019	KEERTHI.G	28
10	21UEC019	920421106004	ANU KARTHIGA.A	17
11	21UEC021	920421106038	SARAN.V	15
12	21UEC024	920421106031	PREMA.E	20
13	21UEC025	920421106006	BOOBALAN.S	24
14	21UEC028	920421106050	THANGAMAREESWARI.T	28
15	21UEC029	920421106033	RAMAR.A	21

16	21UEC030	920421106045	SOORYA NARAYANAN.S	28
17	21UEC034	920421106036	RANJITH RAJ.L	18
18	21UEC036	920421106037	RITHISH ARUN VARUNA.M	23
19	21UEC037	920421106053	VISHVA.S	25
20	21UEC039	920421106027	NOBLE RICHARD.L	22
21	21UEC041	920421106047	SUKIS KRISHNA.P	25
22	21UEC044	920421106044	SIYON.C	13
23	21UEC045	920421106052	VISHAL.M.A	26
24	21UEC047	920421106034	RAMJI.B.G	24
25	21UEC052	920421106023	MUTHU BHARATHI.P	25
26	21UEC053	920421106041	SENTHIL MURUGAN.K	18
27	21UEC054	920421106043	SHVETHA.M	23
28	21UEC055	920421106012	DIVYA.S	21
29	21UEC056	920421106011	DHIVYA DHARSHINI.A	22

For Pantech e learning.,

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
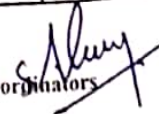(An Autonomous Institution)
VIRUDHUNAGAR.

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
External Mark

S.No	Roll Number	Register Number	Name of the Student	Mark (30)	Mark (60)
1	21UEC001	920421106028	PADMA LOKSHANA.M	24	48
2	21UEC002	920421106002	ABISHEK BABU.R.J	21	42
3	21UEC006	920421106029	PARTHASARATHY.P	23	46
4	21UEC008	920421106016	KAMALI.M	21	42
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	20	40
6	21UEC012	920421106030	PAVITHRA.M	22	44
7	21UEC015	920421106049	SWETHA.R.U	26	52
8	21UEC017	920421106009	DHARMESH KANNAN.V	23	46
9	21UEC018	920421106019	KEERTHI.G	28	56
10	21UEC019	920421106004	ANU KARTHIGA.A	17	34
11	21UEC021	920421106038	SARAN.V	15	30
12	21UEC024	920421106031	PREMA.E	20	40
13	21UEC025	920421106006	BOOBALAN.S	24	48
14	21UEC028	920421106050	THANGAMAREESWARI.T	28	56
15	21UEC029	920421106033	RAMAR.A	21	42
16	21UEC030	920421106045	SOORYA NARAYANAN.S	28	56
17	21UEC034	920421106036	RANJITH RAJ.L	18	36
18	21UEC036	920421106037	RITHISH ARUN VARUNA.M	23	46
19	21UEC037	920421106053	VISHVA.S	25	50
20	21UEC039	920421106027	NOBLE RICHARD.L	22	44
21	21UEC041	920421106047	SUKIS KRISHNA.P	25	50
22	21UEC044	920421106044	SIYON.C	13	26
23	21UEC045	920421106052	VISHAL.M.A	26	52
24	21UEC047	920421106034	RAMJI.B.G	24	48

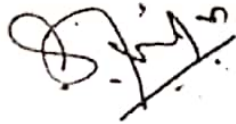| S. No.	Roll Number	Register Number	Name of the Student	Mark (30)	Mark (60)
25	21UEC052	920421106023	MUTHU BHARATHI.P	25	50
26	21UEC053	920421106041	SENTHIL MURUGAN.K	18	36
27	21UEC054	920421106043	SHVETHA.M	23	46
28	21UEC055	920421106012	DIVYA.S	21	42
29	21UEC056	920421106011	DHIVYA DHARSHINI.A	22	44

Coordinators

HoD/ECE
24/7/3

30/08/2023

The Value Added Course on "Artificial Intelligence using Python" organized by Pantech E-Learning from 04.01.2023 to 10.01.2023, Herewith mentioned the student's evaluation mark based on MCQ test conducted on 10.01.2023.

S. No.	Roll Number	Register Number	Name of the Student	Mark(30)
1	21UEC001	920421106028	PADMA LOKSHANA.M	24
2	21UEC002	920421106002	ABISHEK BABU.R.J	21
3	21UEC006	920421106029	PARTHASARATHY.P	23
4	21UEC008	920421106016	KAMALI.M	21
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	20
6	21UEC012	920421106030	PAVITHRA.M	22
7	21UEC015	920421106049	SWETHA.R.U	26
8	21UEC017	920421106009	DHARMESH KANNAN.V	23
9	21UEC018	920421106019	KEERTHI.G	28
10	21UEC019	920421106004	ANU KARTHIGA.A	17
11	21UEC021	920421106038	SARAN.V	15
12	21UEC024	920421106031	PREMA.E	20
13	21UEC025	920421106006	BOOBALAN.S	24
14	21UEC028	920421106050	THANGAMAREESWARI.T	28
15	21UEC029	920421106033	RAMAR.A	21

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

16	21UEC030	920421106045	SOORYA NARAYANAN.S	28
17	21UEC034	920421106036	RANJITH RAJ.L	18
18	21UEC036	920421106037	RITHISH ARUN VARUNA.M	23
19	21UEC037	920421106053	VISHVA.S	25
20	21UEC039	920421106027	NOBLE RICHARD.L	22
21	21UEC041	920421106047	SUKIS KRISHNA.P	25
22	21UEC044	920421106044	SIYON.C	13
23	21UEC045	920421106052	VISHAL.M.A	26
24	21UEC047	920421106034	RAMJI.B.G	24
25	21UEC052	920421106023	MUTHU BHARATHI.P	25
26	21UEC053	920421106041	SENTHIL MURUGAN.K	18
27	21UEC054	920421106043	SHVETHA.M	23
28	21UEC055	920421106012	DIVYA.S	21
29	21UEC056	920421106011	DHIVYA DHARSHINI.A	22

For Pantech e learning.,

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution)

Department of Electronics and Communication Engineering

Value Added Course on Artificial Intelligence using Python

04/01/2023 to 10/01/2023 (6 Days)

External Mark

S. No.	Roll Number	Register Number	Name of the Student	Mark (30)	Mark (60)
1	21UEC001	920421106028	PADMA LOKSHANA.M	24	48
2	21UEC002	920421106002	ABISHEK BABU.R.J	21	42
3	21UEC006	920421106029	PARTHASARATHY.P	23	46
4	21UEC008	920421106016	KAMALI.M	21	42
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	20	40
6	21UEC012	920421106030	PAVITHRA.M	22	44
7	21UEC015	920421106049	SWETHA.R.U	26	52
8	21UEC017	920421106009	DHARMESH KANNAN.V	23	46
9	21UEC018	920421106019	KEERTHI.G	28	56
10	21UEC019	920421106004	ANU KARTHIGA.A	17	34
11	21UEC021	920421106038	SARAN.V	15	30
12	21UEC024	920421106031	PREMA.E	20	40
13	21UEC025	920421106006	BOOBALAN.S	24	48
14	21UEC028	920421106050	THANGAMAREESWARI.T	28	56
15	21UEC029	920421106033	RAMAR.A	21	42
16	21UEC030	920421106045	SOORYA NARAYANAN.S	28	56
17	21UEC034	920421106036	RANJITH RAJ.L	18	36
18	21UEC036	920421106037	RITHISH ARUN VARUNA.M	23	46
19	21UEC037	920421106053	VISHVA.S	25	50
20	21UEC039	920421106027	NOBLE RICHARD.L	22	44
21	21UEC041	920421106047	SUKIS KRISHNA.P	25	50
22	21UEC044	920421106044	SIYON.C	13	26
23	21UEC045	920421106052	VISHAL.M.A	26	52
24	21UEC047	920421106034	RAMJI.B.G	24	48

S. No.	Roll Number	Register Number	Name of the Student	Mark (30)	Mark (60)
25	21UEC052	920421106023	MUTHU BHARATHI.P	25	50
26	21UEC053	920421106041	SENTHIL MURUGAN.K	18	36
27	21UEC054	920421106043	SHVETHA.M	23	46
28	21UEC055	920421106012	DIVYA.S	21	42
29	21UEC056	920421106011	DHIVYA DHARSHINI.A	22	44

Coordinator

HoD/ECE 24/7/24

Department of Electronics and Communication Engineering

Mini Project – Value Added Course

(Artificial Intelligence using Python)

Score Sheet

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)	
I	21UEC052	MUTHU BHARATHI.P	Credit Card Fraud detection	10	8	4	22	21·3 ②
	21UEC037	VISHVA.S						
	21UEC030	SOORYA NARAYANAN.S						
II	21UEC034	RANJITH RAJ.L	Rainfall detection	10	5	4	19	19
	21UEC045	VISHAL.M.A						
	21UEC047	RAM.I.B.G						
III	21UEC039	NOBLE RICHARD.L	Diabetics	10	9	5	24	19·33
	21UEC009	SATHISH KUMAR BALAJI.R						
	21UEC044	SIYON.C						
IV	21UEC006	PARTHASARATHY.P	Prediction of car selling price	9	9	4	22	23 ①
	21UEC025	BOOBALAN.S						
	21UEC029	RAMAR.A — NSS						
V	21UEC002	ABISHEK BABU.R.J	Diamond Price Analysis	8	7	4	19	20·33 ③
	21UEC021	SARAN.V						
	21UEC053	SENTHIL MURUGAN.K						

Scanned with OKEN Scanner

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)	
VI	21UEC012	PAVITHRA.M	Loan Prediction	8	7	4	19	19.67
	21UEC054	SHVETHA.M						
	21UEC056	DHIVYA DHARSHINI.A						
VII	21UEC008	KAMALI.M	Water quality Analysis	7	8	2	17	17.67
	21UEC055	DIVYA.S						
VIII	21UEC015	SWETHA.R.U	Prediction of health insurance	7	8	2	17	17.33
	21UEC018	KEERTHI.G						
	21UEC028	THANGAMAREESWARI.T						
IX	21UEC001	PADMA LOKSHANA.M	Prediction of Black Friday sales	9	8	4	21	19.67
	21UEC019	ANUKARTHIGA.A						
	21UEC024	PREMA.E						
X	21UEC017	DHARMESH KANNAN.V	Prediction of house price	6	8	3	17	17.33
	21UEC036	RITHISH ARUN VARUNA.M						
	21UEC041	SUKIS KRISHNA.P						

Event In-charge

Head of the Department

Mini Project – Value Added Course

(Artificial Intelligence using Python)

Score Sheet

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)
I	21UEC052	MUTHU BHARATHI.P	Credit Card Fraud detection	9	8	3	20
	21UEC037	VISHVA.S					
	21UEC030	SOORYA NARAYANAN.S					
II	21UEC034	RANJITH RAJ.L	Rainfall detection	10	6	3	19
	21UEC045	VISHAL.M.A					
	21UEC047	RAMJI.B.G					
III	21UEC039	NOBLE RICHARD.L	Prediction of Diabetics using Machine Learning.	7	6	3	16
	21UEC009	SATHISH KUMAR BALAJI.R					
	21UEC044	SIYON.C					
IV	21UEC006	PARTHASARATHY.P	Prediction of car selling price	10	9	4	23
	21UEC025	BOOBALAN.S					
	21UEC029	RAMAR.A					
V	21UEC002	ABISHEK BABU.R.J	Diamond Price Analysis	10	9	4	23
	21UEC021	SARAN.V					
	21UEC053	SENTHIL MURUGAN.K					

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)
VI	21UEC012	PAVITHRA.M	Loan Prediction	8	8	3	19.
	21UEC054	SHVETHA.M					
	21UEC056	DHIVYA DHARSHINI.A					
VII	21UEC008	KAMALI.M	Water quality Analysis	7	7	3	17
	21UEC055	DIVYA.S					
VIII	21UEC015	SWETHA.R.U	Prediction of health insurance ★	7	7	3	17
	21UEC018	KEERTHI.G					
	21UEC028	THANGAMAREESWARI.T					
IX	21UEC001	PADMA LOKSHANA.M	Prediction of Black Friday sales	8	8	3	19
	21UEC019	ANUKARTHIGA.A					
	21UEC024	PREMA.E					
X	21UEC017	DHARMESH KANNAN.V	Prediction of house price	7	7	3	17
	21UEC036	RITHISH ARUN VARUNA.M					
	21UEC041	SUKIS KRISHNA.P					

T. Prath

Event In-charge

27/3/

Head of the Department

Scanned with OKEN Scanner

Department of Electronics and Communication Engineering

Mini Project – Value Added Course

(Artificial Intelligence using Python)

Score Sheet

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)
I	21UEC052	MUTHU BHARATHI.P	Credit Card Fraud detection	10	9	3	22
	21UEC037	VISHVA.S					
	21UEC030	SOORYA NARAYANAN.S					
II	21UEC034	RANJITH RAJ.L	Rainfall detection	10	6	3	19
	21UEC045	VISHAL.M.A					
	21UEC047	RAMJI.B.G					
III	21UEC039	NOBLE RICHARD.L	Diabetics	09	6	3	18
	21UEC009	SATHISH KUMAR BALAJI.R					
	21UEC044	SIYON.C					
IV	21UEC006	PARTHASARATHY.P	Prediction of car selling price	10	9	5	24
	21UEC025	BOOBALAN.S					
	21UEC029	RAMAR.A					
V	21UEC002	ABISHEK BABU.R.J	Diamond Price Analysis	8	8	3	19
	21UEC021	SARAN.V					
	21UEC053	SENTHIL MURUGAN.K					

Scanned with OKEN Scanner

Batch Number	Roll Number	Name of the Students	Title of the Project	PPT Presentation (10)	Coding Explanation (10)	Viva (5)	Total Mark (25)
VI	21UEC012	PAVITHRA.M	Loan Prediction	8.	9.	4	21.
	21UEC054	SHVETHA.M					
	21UEC056	DHIVYA DHARSHINI.A					
VII	21UEC008	KAMALI.M	Water quality Analysis	7	8	4	19.
	21UEC055	DIVYA.S					
VIII	21UEC015	SWETHA.R.U	Prediction of health insurance	9.	7.	2	18
	21UEC018	KEERTHI.G					
	21UEC028	THANGAMAREESWARI.T					
IX	21UEC001	PADMA LOKSHANA.M	Prediction of Black Friday sales	9	8	2	19
	21UEC019	ANUKARTHIGA.A					
	21UEC024	PREMA.E					
X	21UEC017	DHARMESH KANNAN.V	Prediction of house price	7	8	3	18
	21UEC036	RITHISH ARUN VARUNA.M					
	21UEC041	SUKIS KRISHNA.P					

Event In-charge

Head cf the Department

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
04/01/2023 to 10/01/2023 (6 Days)
Internal Mark

S. No.	Roll Number	Register Number	Name of the Student	Member 1 (Dr. R. Suresh Babu)	Member 2 (Dr. T. Prathiba)	Member 3 (Mr. S. Alwyn Rajiv)	AVG (25)	Internal (40)
1	21UEC001	920421106028	PADMA LOKSHANA.M	21	19	19	20	32
2	21UEC002	920421106002	ABISHEK BABU.R.J	19	23	19	20	33
3	21UEC006	920421106029	PARTHASARATHY.P	22	23	24	23	37
4	21UEC008	920421106016	KAMALI.M	17	17	19	18	29
5	21UEC009	920421106040	SATHISH KUMAR BALAJI.R	24	16	18	19	31
6	21UEC012	920421106030	PAVITHRA.M	19	19	21	20	32
7	21UEC015	920421106049	SWETHA.R.U	17	17	18	17	28
8	21UEC017	920421106009	DHARMESH KANNAN.V	17	17	18	17	28
9	21UEC018	920421106019	KEERTHI.G	17	17	18	17	28
10	21UEC019	920421106004	ANU KARTHIGA.A	21	19	19	20	32
11	21UEC021	920421106038	SARAN.V	19	23	19	20	33
12	21UEC024	920421106031	PREMA.E	21	19	19	20	32
13	21UEC025	920421106006	BOOBALAN.S	22	23	24	23	37

S. No.	Roll Number	Register Number	Name of the Student	Member 1 (Dr. R. Suresh Babu)	Member 2 (Dr. T. Prathiba)	Member 3 (Mr. S. Alwyn Rajiv)	AVG (25)	Internal (40)
14	21UEC028	920421106050	THANGAMAREESWARI.T	17	17	18	17	28
15	21UEC029	920421106033	RAMAR.A	22	23	24	23	37
16	21UEC030	920421106045	SOORYA NARAYANAN.S	22	20	22	21	35
17	21UEC034	920421106036	RANJITH RAJ.L	17	19	19	18	30
18	21UEC036	920421106037	RITHISH ARUN VARUNA.M	17	17	18	17	28
19	21UEC037	920421106053	VISHVA.S	22	20	22	21	35
20	21UEC039	920421106027	NOBLE RICHARD.L	24	16	18	19	31
21	21UEC041	920421106047	SUKIS KRISHNA.P	17	17	18	17	28
22	21UEC044	920421106044	SIYON.C	24	16	18	19	31
23	21UEC045	920421106052	VISHAL.M.A	17	19	19	18	30
24	21UEC047	920421106034	RAMJI.B.G	17	19	19	18	30
25	21UEC052	920421106023	MUTHU BHARATHI.P	22	20	22	21	35
26	21UEC053	920421106041	SENTHIL MURUGAN.K	19	23	19	20	33
27	21UEC054	920421106043	SHVETHA.M	19	19	21	20	32
28	21UEC055	920421106012	DIVYA.S	17	17	19	18	29
29	21UEC056	920421106011	DHIVYA DHARSHINI.A	19	19	21	20	32

Coordinator

HoD/ECE
24/7/2

Value Added Course in Artificial Intelligence using Python

* Indicates required question

1. PARTICIPANT NAME (FOR CERTIFICATE) *

_____

2. Email *

_____

3. Mobile Number

_____

4. Whats App Number

_____

5. *

   Mark only one oval.

   ( ) Option 1

6. Institute / Organization Name *

_____

7. STATE *

8. Year of Passing *

9. Department *

10. Feedback for the Technical Session [Technical Content of the Seminar] *

    Mark only one oval.

    ◯ Excellent
    ◯ Very good
    ◯ Good
    ◯ Fair

11. Feedback for the Technical Session [Communication of the Presenter] *

    Mark only one oval.

    ◯ Excellent
    ◯ Very good
    ◯ Good
    ◯ Fair

Feedback for the Technical Session [Information Shared during the Seminar] *

Mark only one oval.

◯ Excellent

◯ Very good

◯ Good

◯ Fair

13. Feedback for the Technical Session [Hands on Training - Practical Sessions] *

Mark only one oval.

◯ Excellent

◯ Very good

◯ Good

◯ Fair

14. Additional feedback *

_____

Google Forms

Timestamp	PARTICIPANT NAME (FOR CERTIFICATE)	Feedback for the Technical Session [Technical Content of the Seminar]	Feedback for the Technical Session [Communication of the Presenter]	Feedback for the Technical Session [Information Shared during the Seminar]	Feedback for the Technical Session [Hands on Training - Practical Sessions]	Additional feedback
2023/01/10 2:41:16 PM GMT+5:30	VISHVA.S	Excellent	Excellent	Excellent	Excellent	Everything is good and Staffs are Excellent.
2023/01/10 2:42:44 PM GMT+5:30	S.SOORIYA NARAYANAN	Excellent	Excellent	Excellent	Excellent	valuable and effective
2023/01/10 2:42:54 PM GMT+5:30	P.MUTHU BHARATHI	Excellent	Excellent	Excellent	Excellent	valuable course and effective outcome
2023/01/10 2:42:56 PM GMT+5:30	V.SARAN	Good	Good	Good	Good	all is fine
2023/01/10 2:43:01 PM GMT+5:30	V.DHARMESH KANNAN	Excellent	Excellent	Excellent	Excellent	Good
2023/01/10 2:43:45 PM GMT+5:30	M.SHVETHA	Excellent	Excellent	Excellent	Excellent	wonderful experience to enhance our programming techniques.
2023/01/10 2:44:03 PM GMT+5:30	L.RANJITH RAJ	Excellent	Excellent	Excellent	Excellent	good
2023/01/10 2:44:05 PM GMT+5:30	M.PAVITHRA	Excellent	Excellent	Excellent	Excellent	experience.it was really helpful for us to understand about AI and Thankyou.
2023/01/10 2:44:06 PM GMT+5:30	SIYON.C	Excellent	Excellent	Excellent	Excellent	Mr.Manish sir and Mr.Naresh sir are both very talented.and they are put many effort to train us.

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
Feed Back Anaysis

Timestamp	PARTICIPANT NAME (FOR CERTIFICATE)	Feedback for the Technical Session [Technical Content of the Seminar]	Feedback for the Technical Session [Communication of the Presenter]	Feedback for the Technical Session [Information Shared during the Seminar]	Feedback for the Technical Session [Hands on Training - Practical Sessions]	Additional feedback
2023/01/10 2:44:06 PM GMT+5:30	DHIVYA DHARSHINI A	Excellent	Excellent	Excellent	Excellent	In value added course we get a lot of knowledge , getting a new expreince Thanks for giving this opportunity
2023/01/10 2:44:22 PM GMT+5:30	L.NOBLE RICHARD	Excellent	Excellent	Excellent	Excellent	Both Mr.Manish sir and Mr. Naresh sir are very friendly, teached us in an easy way and we spend valuable time them by learning new things.
2023/01/10 2:44:30 PM GMT+5:30	SATHISH KUMAR BALAJI	Excellent	Excellent	Excellent	Excellent	Mr.manish sir and Mr.naresh sir both have put their full effort to train us and we had an excelent outcome we thank them with our wholehearted.THANKING YOU
2023/01/10 2:44:58 PM GMT+5:30	ABISHEK BABU.R.J	Good	Excellent	Excellent	Excellent	One of the great, fun and usefull workshop I have ever attended.
2023/01/10 2:44:58 PM GMT+5:30	K.SENTHIL MURUGAN	Good	Good	OK	OK	The season is very useful and learned about ai and ml
2023/01/10 2:45:17 PM GMT+5:30	P.SUKISKRISHNA	Excellent	Excellent	Excellent	Excellent	good
2023/01/10 2:45:25 PM GMT+5:30	M.RITHISH ARUNVARNA	Excellent	Excellent	Excellent	Excellent	was good and useful
2023/01/10 2:45:25 PM GMT+5:30	RAMAR.A	Good	Good	Good	Good	.

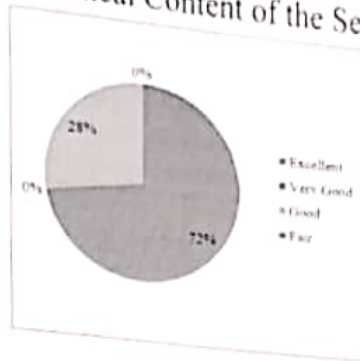| Timestamp	PARTICIPANT NAME (FOR CERTIFICATE)	Feedback for the Technical Session [Technical Content of the Seminar]	Feedback for the Technical Session [Communication of the Presenter]	Feedback for the Technical Session [Information Shared during the Seminar]	Feedback for the Technical Session [Hands on Training - Practical Sessions]	Additional feedback
2023/01/10 2:45:49 PM GMT+5:30	G KEERTHI	Excellent	Good	Good	Good	I have gain more konowledge about AI.
2023/01/10 2:46:12 PM GMT+5:30	R.U.SWETHA	Excellent	Good	Good	Excellent	Technical content was elaborate and it was thought effectively.
2023/01/10 2:46:31 PM GMT+5:30	B.G.RAMJI	Good	Good	Good	Good	It is very useful and it is helpful to know an new things for my future. Thank You
2023/01/10 2:46:54 PM GMT+5:30	M.A.VISHAL	Excellent	Excellent	Excellent	Excellent	The value added course on AI are more valuable one and try to improve by knowledge towards AI. Thank you for this wonderful Oppurtunity.
2023/01/10 2:47:14 PM GMT+5:30	E.PREMA	Excellent	Excellent	Excellent	Excellent	The session is very useful for gaining programming knowledge
2023/01/10 2:48:02 PM GMT+5:30	T.THANGAMAREESWARI	Excellent	Good	Excellent	Good	I Learnt more information about AI.
2023/01/10 2:48:18 PM GMT+5:30	BOOBALAN S	Good	Excellent	Good	Excellent	This seminar introduced us to a new concept that is completely different from our syllabus yet we were able to understand the concept and work with this project. I wish that that the seminar had more real life examples for more clear understanding.

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
Feed Back Anaysis

Timestamp	PARTICIPANT NAME (FOR CERTIFICATE)	Feedback for the Technical Session [Technical Content of the Seminar]	Feedback for the Technical Session [Communication of the Presenter]	Feedback for the Technical Session [Information Shared during the Seminar]	Feedback for the Technical Session [Hands on Training - Practical Sessions]	Additional feedback
2023/01/10 2:49:31 PM GMT+5:30	PADMA LOKSHANA M	Excellent	Excellent	Excellent	Excellent	Totally its informative
2023/01/10 2:50:52 PM GMT+5:30	PARTHASARATHY P	Excellent	Good	Good	Excellent	VERY IMPRESSIVE!!!!
2023/01/10 2:53:47 PM GMT+5:30	M.KAMALI	Good	Excellent	Excellent	Excellent	HAD BEAUTYFULL EXPERIENCE
2023/01/10 2:54:25 PM GMT+5:30	DIVYA.S	Good	Excellent	Excellent	Excellent	Had a wonderful experience ..learned a lot of things apart from the course as well as subjects. thank you
2023/01/10 3:03:29 PM GMT+5:30	A.ANU KARTHIGA	Excellent	Excellent	Excellent	Excellent	Got a wonderfull experience
Total Number of Student		29	29	29	29	
Excellent		21	21	21	23	
Very Good		0	0	0	0	
Good		8	8	7	5	
Fair		0	0	0	0	

VAC Coordinator

HoD/ECE

Department of Electronics and Communication Engineering
Value Added Course on Artificial Intelligence using Python
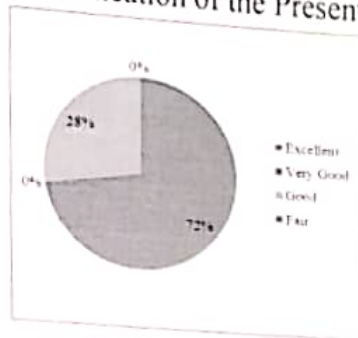### Feed Back Analysis Report

1. Feedback for the Technical Session [Technical Content of the Seminar]
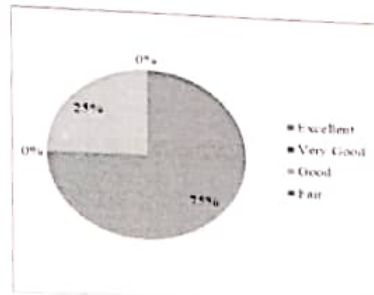   a. Excellent
   b. Very Good
   c. Good
   d. Fair

2. Feedback for the Technical Session [Communication of the Presenter]
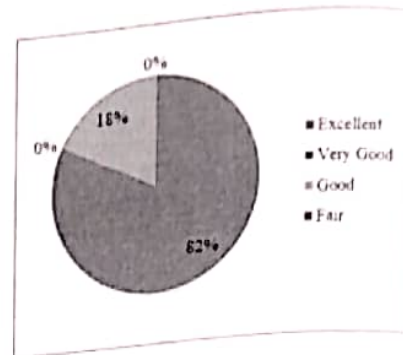   a. Excellent
   b. Very Good
   c. Good
   d. Fair

3. Feedback for the Technical Session [Information Shared during the Seminar]
   a. Excellent
   b. Very Good
   c. Good
   d. Fair

4. Feedback for the Technical Session [Hands on Training - Practical Sessions]

a. Excellent

b. Very Good

c. Good

d. Fair

5. Additional Feedback

Everything is good and Staffs are Excellent.
valuable and effective
valuable course and effective outcome
all is fine
Good
wonderful experience to enhance our programming techniques.
good
it was an excellent session.we gained alot of experience.it was really helpful for us to understand about AI and Thankyou.
Mr.Manish sir and Mr.Naresh sir are both very talented.and they are put many effort to train us.
In value added course we get a lot of knowledge , getting a new expreince Thanks for giving this opportunity
Both Mr.Manish sir and Mr. Naresh sir are very friendly, teached us in an easy way and we spend valuable time them by learning new things.
Mr.manish sir and Mr.naresh sir both have put their full effort to train us and we had an excelent outcome we thank them with our wholehearted.THANKING YOU
One of the great, fun and usefull workshop I have ever attended.
The season is very useful and learned about ai and ml
good
was good and useful
I have gain more konowledge about AI.
Technical content was elaborate and it was thought effectively.
It is very useful and it is helpful to know an new things for my future. Thank You
The value added course on AI are more valuable one and try to improve by knowledge towards AI. Thank you for this wonderful Oppurtunity.
The session is very useful for gaining programming knowledge
I Learnt more information about AI.
This seminar introduced us to a new concept that is completely different from our syllabus yet we were able to understand the concept and work with this project. I wish that that the seminar had more real life examples for more clear understanding.
Totally its informative
VERY IMPRESSIVE!!!!
HAD BEAUTYFULL EXPERIENCE
Had a wonderful experience ..learned a lot of things apart from the course as well as subjects. thank you
Got a wonderfull experience

Department of Electronics and Communication Engineering

Value Added Course Artificial Intelligence using Python

Oral Feedback Link

https://kcetvnrorg-
vm.sharepoint.com/:v:/g/personal/alwynece_kamarajengg_edu_in/EXZdrSJdD2
VBomg0-pA6u7YB2MjigW2_rD_Y40D_9FSzTw?e=TVFhkw

Coordinators

HoD/ECE