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IGNITE 2024

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★ ★ ★ *December* ★ ★ ★

A DAILY NEWSLETTER
10.12.2024

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Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
RAKESH T
for successfully completing the course



Cloud Computing

with a consolidated score of **81** %

Online Assignments	24.69/25	Proctored Exam	56.67/75
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Total number of candidates certified in this course: **30816**

Jul-Oct 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S1052509435

To verify the certificate



No. of credits recommended: 3 or 4

Mrs. Pandi Deepa P, Assistant Professor, Department of AI&DS has mentored, **Rakesh T**, a III-year student, for successfully completing the NPTEL Online Certification course on “**Cloud Computing**”, with a consolidated score of 81 percent held on July-OCT-2024.

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कौशल भारत - कुशल भारत

This certificate is awarded to

VIKRAM

for successfully completing the course



Cloud Computing

with a consolidated score of 77 %

Online Assignments	22.69/25	Proctored Exam	54.44/75
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Total number of candidates certified in this course: 30816

Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S1052509439

To verify the certificate



No. of credits recommended: 3 or 4

Mrs. Pandi Deepa P, Assistant Professor, Department of AI&DS has mentored, **Vikram**, a III-year student, for successfully completing the NPTEL Online Certification course on “**Cloud Computing**”, with a consolidated score of 77 percent held on July-OCT-2024.

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This certificate is awarded to
INBAVATHI M
for successfully completing the course



Cloud Computing

with a consolidated score of **75** %

Online Assignments	21.81/25	Proctored Exam	52.78/75
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Total number of candidates certified in this course: 30816

Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Mrs. Dhanabhavithra.K, Assistant Professor, Department of AI&DS has mentored, **Inbavathi M**, a III-year Student, for successfully completing the NPTEL Online Certification course on “**Cloud Computing**”, with a consolidated score of 75 percent held on July-OCT-2024.

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This certificate is awarded to
BHARANI K
for successfully completing the course

Cloud Computing

with a consolidated score of **73** %

Online Assignments	23.1/25	Proctored Exam	50/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: 30816

Jul-Oct 2024

(12 week course)



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Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Mrs. Dhanabhavithra.K, Assistant Professor, Department of AI&DS has mentored, **Bharani K**, a III-year Student, for successfully completing the NPTEL Online Certification **course** on “**Cloud Computing**”, with a consolidated score of 73 percent held on July-OCT-2024.

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This certificate is awarded to
NAVANEETHAKRISHNAN TM
for successfully completing the course



Cloud Computing

with a consolidated score of **64** %

Online Assignments	21.5/25	Proctored Exam	42.5/75
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Total number of candidates certified in this course: 30816

Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Mrs. Dhanabhavithra.K, Assistant Professor, Department of AI&DS has mentored, **Navaneethakrishnan TM**, a III-year student, for successfully completing the NPTEL Online Certification course on **“Cloud Computing”**, with a consolidated score of 64 percent held on July-OCT-2024.

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This certificate is awarded to

R DEEPAN

for successfully completing the course

Deep Learningwith a consolidated score of **53** %

Online Assignments	12.88/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 2762

Prof. Andrew Thangaraj
Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024**(12 week course)****Prof. Vignesh Muthuvijayan**
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Deepan R**, a III year student, for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 53 percent held on July-OCT-2024.

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This certificate is awarded to
VARUN S
for successfully completing the course

**Deep Learning**with a consolidated score of **54** %

Online Assignments	17.75/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 2762

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2024
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Varun S**, a III-year student, for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 54 percent held on July-OCT-2024.

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This certificate is awarded to
JANANI R
for successfully completing the course

Deep Learningwith a consolidated score of **50** %

Online Assignments	17.56/25	Proctored Exam	32.25/75
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Total number of candidates certified in this course: **2762****Prof. Andrew Thangaraj**
Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Janani R**, a III-year student, AIDS for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 50 percent held on July-OCT-2024.

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This certificate is awarded to
TAMIL SELVI B
for successfully completing the course

**Deep Learning**with a consolidated score of **53** %

Online Assignments	19.19/25	Proctored Exam	34.09/75
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Total number of candidates certified in this course: **2762****Prof. Andrew Thangaraj**
Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Tamil Selvi B**, a III-year student, AIDS for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 53 percent held on July-OCT-2024.

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This certificate is awarded to
INBAVATHI M
for successfully completing the course



Deep Learning

with a consolidated score of **60** %

Online Assignments	20.53/25	Proctored Exam	39.64/75
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Total number of candidates certified in this course: **2762**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

Prof. Vignesh Muthuvijayan

NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Inbavathi M**, a III-year student, for successfully completing the NPTEL Online Certification course on **“Deep Learning”**, with a consolidated score of 60 percent held on July-OCT-2024.

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This certificate is awarded to
BALAKRISHNAN P
for successfully completing the course

Deep Learningwith a consolidated score of **55** %

Online Assignments	15.5/25	Proctored Exam	39.4/75
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Total number of candidates certified in this course: **2762****Prof. Andrew Thangaraj**
Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024**(12 week course)****Prof. Vignesh Muthuvijayan**
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Balakrishnan P**, a III-year student, for successfully completing the NPTEL Online Certification course on **“Deep Learning”**, with a consolidated score of 55 percent held on July-OCT-2024.

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कौशल भारत - कुशल भारत

This certificate is awarded to

ROHITH T

for successfully completing the course

Deep Learningwith a consolidated score of **44** %

Online Assignments	14.16/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **2762****Prof. Andrew Thangaraj**

Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

Prof. Vignesh MuthuvijayanNPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Rohith T**, a III-year student, AIDS for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 44 percent held on July-OCT-2024.

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This certificate is awarded to
MOSINA
for successfully completing the course

Deep Learning

with a consolidated score of **73** %

Online Assignments	22.5/25	Proctored Exam	50/75
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Total number of candidates certified in this course: 2762

Prof. Andrew Thangaraj
Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)



Skill India
कौशल भारत - कुशल भारत



S.MOSINA



Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Mrs. Amala Preyadarchane, Assistant Professor, Department of AI&DS has mentored, **Mosina**, a III-year student, AIDS for successfully completing the NPTEL Online Certification course on “**Deep Learning**”, with a consolidated score of 73 percent held on July-OCT-2024.

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P. Sathyasri and B. Srinithi (IT), I-year students from the Department of Science and Humanities, has successfully completed the certificate course on **“Digital 101 Journey”** provided by IT-ITeS SSC NASSCOM, futureskills Prime with AICTE in the month of December 2024.



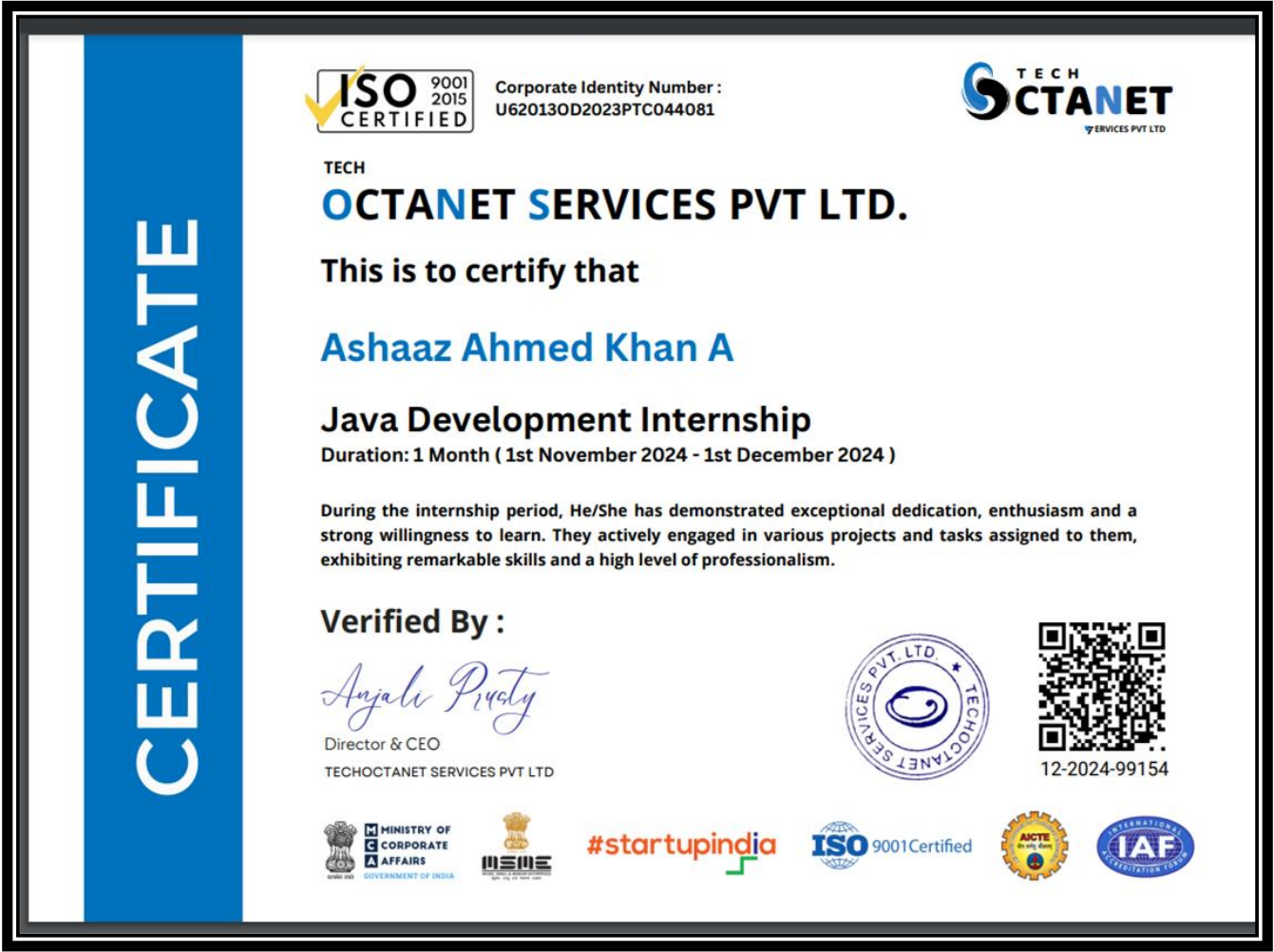
N. Savitha Sree (BME), a 1-year student from the Department of Science and Humanities, has successfully completed the certificate course on “**Digital 101 Journey**” provided by IT-ITeS SSC NASSCOM, futureskills Prime with AICTE in the month of December 2024.



J. Abishiek and E. Abishek (MHT), I-year students from the Department of Science and Humanities, have successfully completed the certificate course on “**Digital 101 Journey**” provided by IT-ITeS SSC NASSCOM, futureskills Prime with AICTE in the month of December 2024.



Mr. Vignesh M, Mr. Varun Prasath M, Ms. Tanvi Himachalan, Ms. Sujitha N, II-year C section student from the Department of Computer Science and Engineerin, have completed the certification course titled, “**Data Structure - C - Course**”, through Skillrack training on November 2024.



Mr. Ashaaz Ahmed Khan, II-year A section student from the Department of Computer Science and Engineering, has successfully completed an internship titled, “**Java Development**” gprovided by octanet Services Pvt ltd duration between 1st November to 1st December 2024.

RESEARCH PAPERS

Thermal characteristics and dryer performance analysis of double pass solar collector powered by copper and iron oxide 🛒

Accepted Manuscript

R. Venkatesh, Venkatasubramanian R., Pradeep Kumar Singh, Ishwarya Mayiladuthurai Vaidyanathan, Deepti Deshwal, S D V V S Bhimeshwar Reddy, Manzoore Elahi M. Soudagar, Sami Al Obaid, Sulaiman Ali Alharbi

[+ Author and Article Information](#)

J. Thermal Sci. Eng. Appl. 1-20 (20 pages)

Paper No: TSEA-24-1257 <https://doi.org/10.1115/1.4067258>

Published Online: November 26, 2024 [Article history](#) 🕒

Abstract

Solar renewable energy is prospective for various engineering applications in heat exchanger and air-dryer applications. The drying of agricultural products is influenced by the weather, which can limit their dryness on cloudy days. Drying efficiency, often necessitating additional measures to complete the drying process. This research aims to enrich the functional characteristics of a



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has published an article “Thermal Characteristics and Dryer Performance Analysis of Double Pass Solar Collector Powered by Copper and Iron Oxide” in the Journal “Journal of Thermal Science and Engineering Applications”, Indexed by SCI on 07.12.2024.

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Proceedings of the International Conference on Sustainable Expert Systems (ICSES-2024)
IEEE Xplore Part Number: CFP24V56-ART; ISBN: 979-8-3315-4056-4

Advanced Process Control in Manufacturing using IoT Devices and Artificial Neural Networks

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Abstract—Optimization of industrial activities is significantly helped by Advanced Process Control (APC), which increases efficiency, decreases costs, and improves product quality. Artificial Neural Networks (ANNs) and the Internet of Things (IoT) have greatly improved APC in manufacturing. It examines how APC systems may include ANNs and IoT devices in industrial processes. By connecting to a wide range of sensors placed strategically throughout a production facility, IoT devices may gather data in real time, allowing for managing and monitoring crucial parameters. To APC systems, ANNs are invaluable for predictive modeling and control due to their adaptability to changing process conditions and capacity to represent complicated nonlinear interactions. Manufacturers may gain better control over their operations, improving productivity and product quality, by using data from the IoT to train and update ANN models. Recent advances in APC using IoT devices and ANNs are reviewed in this study. Their applications in various industrial industries are discussed, and case examples are shown to demonstrate their usefulness. Further improvements in APC for manufacturing using IoT devices and ANNs may be guided by highlighting the field's problems and future research goals. Challenges with data security, integration challenges, and reliability impact the accuracy of predictive modeling, scalability, and performance of IoT systems.

Keywords—Adaptive control, Supervisory control, Fault detection, Process monitoring, Predictive modeling, Control systems, Product Quality.

I. INTRODUCTION

In today's competitive global economic world, manufacturing organizations need help improving safety, quality, and efficiency. Modern manufacturing organizations use IoT to increase quality, safety, and efficiency because it strengthens their values [1]. Quality control, inventory management, and predictive maintenance may improve a company's manufacturing process. Overall, IoT in manufacturing helps modern manufacturing organizations worldwide optimize resource utilization. Developing self-configuring production systems is an important trend in the

manufacturing industry. Machine settings and software updates must be continuously updated to meet the diverse needs of products [2]. Traditional methods often presume that production assets (such as robot platforms) come with fixed capabilities or that a central administrator can easily adjust their settings. There are times when decentralized method work better. The shop floor's ability is limited because of the need to continuously maintain the central server to accommodate dynamic changes in production.

The Industrial IoT needs cloud computing to gather shop floor equipment data, while distributed computing would go to the edge to handle huge amounts of data in real time [3]. The standard production system uses a private cloud system to collect real-time data from smart technologies on shop-floor devices. The research designs a generic framework for information and data capture, processing, and collection using shop-floor objects at enormous production edges. Real-time multi-criteria adaptive scheme the shop into account for precise and efficient process scheduling or rescheduling. Industry control will drive manufacture [4]. This strategy will succeed: net-centric systems apply adaptive manufacturing and work reliably. In such systems, multi-parameter operability modes regulate criteria constitute the problem. Problems with are solved through numerous physical hierarchical decomposition of multi-optimization settings, and aggregation levels.

Manufacturing businesses face new solutions in a highly competitive world. Manufacturers are exploring innovative methods to improve operational efficiency, boost sustainability, and reduce net overhead. Industry types manufacturing as one of the most effective ways to attain these aims. With the rise of industrial production technologies like the Industrial Internet of Things (IIoT), manufacturers and researchers are increasingly examining the relationship between Lean manufacturing



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has presented and published the paper titled “Advanced Process Control in Manufacturing using IoT Devices and Artificial Neural Networks“ in IEEE 4th International Conference on Sustainable Expert Systems(ICSES), indexed by SCOPUS on 07.12.2024.

The screenshot shows the IEEE Xplore digital library interface. At the top, there's a navigation bar with 'IEEE Xplore' logo, 'Browse', 'My Settings', 'Help', and an 'Institutional Sign In' button. Below this is a search bar with a dropdown menu set to 'All' and a search icon. The main content area displays the article title 'SVM-Enhanced Dynamic Audiology Screening with IoT-Driven Monitoring for Personalized Hearing Health Management' by Bindu S. Ronald, Ramakrishnan Raman, Daxa Vekariya, V Vijaya Baskar, J Rahul, and C. Srinivasan. It includes a 'Publisher: IEEE' badge, a 'Cite This' button, and a 'PDF' icon. A sidebar on the right promotes 'Need Full-Text' access. Below the article title, there's a section for '1 Full Text View' and a list of 'Document Sections' including 'Abstract' and 'Introduction'. The abstract text is visible, discussing the prevalence of hearing impairment and the need for early diagnosis.

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ADVANCED SEARCH

Conferences > 2024 2nd International Confer... ?

SVM-Enhanced Dynamic Audiology Screening with IoT-Driven Monitoring for Personalized Hearing Health Management

Publisher: IEEE Cite This PDF

Bindu S. Ronald ; Ramakrishnan Raman ; Daxa Vekariya ; V Vijaya Baskar ; J Rahul ; C. Srinivasan All Authors

1 Full Text View

Abstract

Document Sections

Introduction

Abstract:

The increasing prevalence of hearing impairment across diverse age demographics, particularly in elderly populations, highlights the need for early diagnosis and ongoing therapy. Traditional audiology screening techniques often lack the necessary dynamic flexibility to meet personalized hearing health requirements over

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Mr. Rahul.J, Assistant Professor, Department of Artificial Intelligence and Data Science has presented and published the paper titled “SVM-Enhanced Dynamic Audiology Screening with IoT-Driven Monitoring for Personalized Hearing Health Management “in IEEE 2nd International Conference on Self Sustainable Artificial Intelligence Systems(ICSSAS), indexed by SCOPUS on 07.12.2024.



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This certificate is awarded to
PANDI DEEPA P
for successfully completing the course

Cloud Computing

with a consolidated score of **77** %

Online Assignments	22.88/25	Proctored Exam	53.91/75
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Total number of candidates certified in this course: **30816**

Jul-Oct 2024
(12 week course)



Haimanti Banerji
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S961300198

To verify the certificate



No. of credits recommended: 3 or 4

Mrs. Pandi Deepa P, Assistant Professor, Department of AI&DS is awarded for successfully completing the **NPTEL Online Certification** on “**Cloud Computing**”, with a consolidated score of 77 percent held on July-OCT-2024.

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(Funded by the MoE, Govt. of India)



This certificate is awarded to
DHANABHAVITHRA K
for successfully completing the course



Cloud Computing

with a consolidated score of **75** %

Online Assignments	23.16/25	Proctored Exam	51.67/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **30816**

Jul-Oct 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S1061300616

To verify the certificate



No. of credits recommended: 3 or 4

Mrs. Dhanabhavithra.K, Assistant Professor, Department of AI&DS is awarded for successfully completing the **NPTEL Online Certification** on “**Cloud Computing**”, with a consolidated score of 75 percent held on July-OCT-2024.

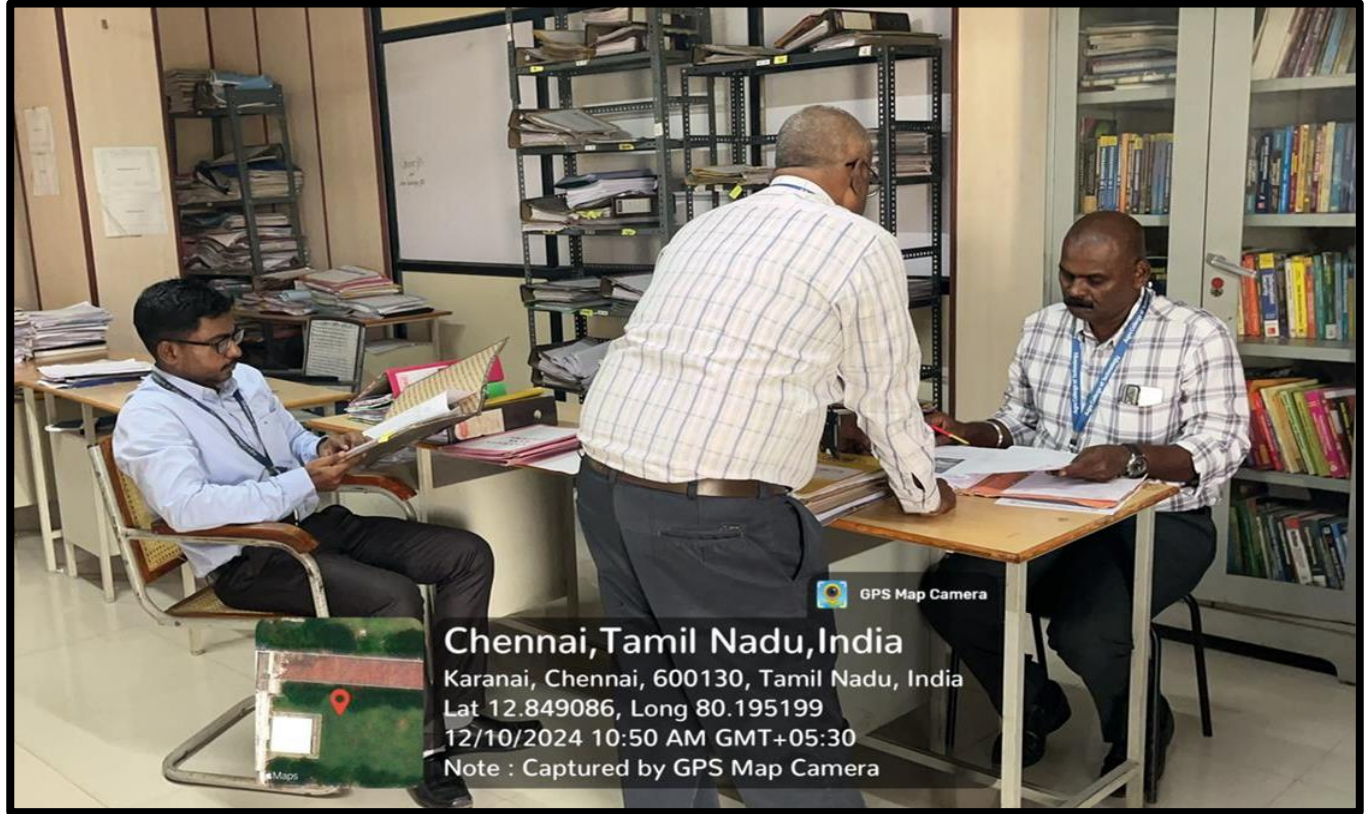
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Ms. Ashwini Govindhan, Assistant Professor, Department of AI&DS delivered a guest lecture at CIPET College on the Lab course of Artificial Intelligence and Machine Learning Fundamentals (OCS351) on 6.12.2024 and 7.12.2024. Experiments were carried out to provide valuable insights and foster a deeper understanding of emerging trends and applications in AI and ML among the participants.



The **Internal Quality Assurance Audit-II** for the Odd semester of the Academic year 2024-2025 was conducted for the Department of **Information Technology** on 10th December 2024. **Dr. T. Anand, Dean Academics**, has reviewed the overall update of the department files in the presence of **Dr. S. Geerthik, Head, Department of Information Technology** and faculty member.



The Second Class Committee Meeting for 1st year students for the odd semester 2024-25, was conducted on 09.12.2024 at the Physics laboratory by the Department of Science and Humanities. The deputed Chairpersons of each section presided over the meetings for all the first year classes (Sections : A - K). The Class Committee Chairpersons have reviewed the process, collected the feedback related to academics, non-academics and general issues. Based on the feedback received, HoD has taken the appropriate action for a better outcome and fulfillment.



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