



**SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES - Chittoor
AUTONOMOUS
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**A One Day Seminar
On**

“Introduction to Artificial Intelligence and Machine Learning”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Artificial Intelligence and Machine Learning. It covers an overview of artificial Intelligence. The participants obtain deep insights of artificial intelligence, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many research is going on in artificial intelligence. Hence by providing these types of workshops for the students at their UG level, will make them to be more comfortable in basics. At the end of this workshop, the participants are able to express about various intelligent algorithms.

Seminar Contents:

- Introduction to Artificial Intelligence
- Supervised Learning Technique - Regression
- Unsupervised Learning Technique - Clustering
- Applications of machine learning algorithm

Speaker's Details : Dr. R Jayanthi, Professor, Karpagam College of Engineering,
Coimbatore.

Dr. M. Azhagiri, Assistant Professor, Department of CSE

Date : 07.03.2022

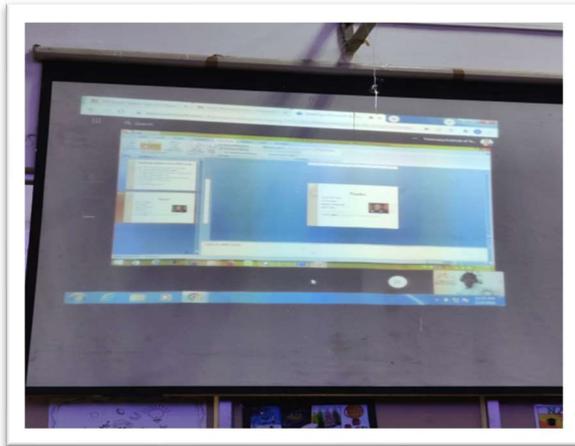
Venue : E-Classroom.

Target Audience : II year CSM students.



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A One Day Workshop
On
“Decoding the World of Artificial Intelligence”



Introduction: On the 22nd of February 2022, a One-Day Workshop on **Decoding the world of Artificial Intelligence and its Industrial Usecases** was organized by the MCA and CSM Department. Mr. Arpit Yadav, Artificial Intelligence and Machine Learning researcher and also corporate trainer in Python, Data Science, Machine learning and working as Senior Scientist at Insofe, Bangalore acted as a resource persons for this workshop.

The workshop was divided into 2 sessions. The first one was held at 10AM. He introduced key concepts on artificial intelligence; defining critical terms, capabilities as well as current limitations of AI. The second session was conducted after the tea break by 12 o'clock, in this session he explained key concepts of artificial intelligence. Basic algorithms were also covered during the session. He gave an insight on the different use cases of AI in various industries. The students showed keen interest in the workshop and have gained knowledge on the topics of Artificial Intelligence.

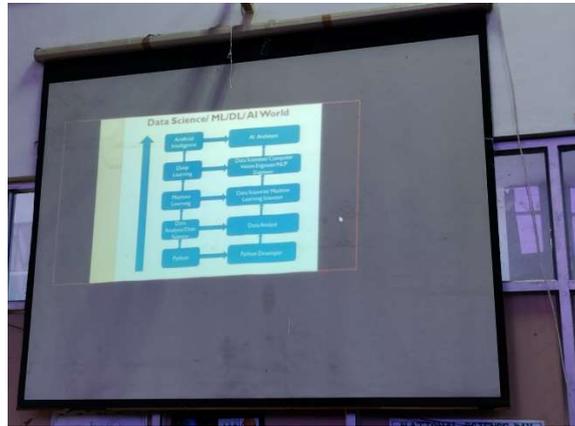
Overall 100 students participated from MCA & CSM departments. This workshop was a good learning experience for the participants. They had the opportunity to familiarize themselves to “AI and its Industrial Usecase” and also they had the opportunity to interact with the best resource person in the field of AI.

- Speaker Details** : Mr. Arpit Yadav, Senior Data Scientist, Insofe, Bangalore.
- Convenor** : Dr. M. Kalpana Devi, Assoc Professor, MCA Department, SITAMS.
- Advisors** : Mr. M. E. Palanivel, Professor & HOD, MCA Departemnt, SITAMS.
Dr. M. Arthi, Assoc. Professor& HOD, CSM Department, SITAMS.
- Date** : 22-02-2022
- Venue** : Gallery, SITAMS.
- Target Audience** : Students of MCA & CSM department



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A One Day Seminar
On
“Python for Data Science”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Python for Data Science.

In recent days, many researches are going on in DataScience using Python. Hence by providing these type of workshops for the students at their UG level, makes them learn how to enable Python for DataScience. This workshop will train the students in accessing data from various domains. By providing this types of workshop to students, will develop confidence as independent Python Programmer and data analyst.

Seminar Contents:

- The logic of Python
- Basics of Python: variables, data types, functions
- Basics of Python: loops and if statements
- Analytics-specific Python libraries: numpy, pandas
- Advanced data science Python libraries: SciPy, Matplotlib
- Creating your first simple prediction

Speaker's Details : Dr. K. Vinoth Babu, Associate Professor Senior, VIT University,
Vellore

Mrs. P. Jyotheeswari, Associate Professor, Department of CSE,
Sri Venkateswara College of Engineering and Technology, Chittoor

Date : 11.02.2022

Venue : E-Classroom.

Target Audience : II year CSM students.



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A One Day Guest Lecture
On

“Object Oriented Programming using Python”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of object-oriented programming using python. This workshop is intended to enhance your knowledge in developing pythonic codes for OOPs with tools provided by Python. The participants obtain deep insights of Python code for OOPs, which in turn helps them to apply it in practice or as a foundation for their further studies.

By providing these types of workshops for the students, will make them more comfortable in basics of this topic. At the end of this workshop, the participants are able to express about the Object Oriented Programs using Python.

Guest Lecture Contents:

- Introduction to OOPs
- OOPs Concepts
- Implementation of OOPs using Python

Speaker's Details : Dr. T. Muthumanickam, Professor, Vinayaka Mision's kirupananda
Variyar Engineering College.

Mrs. S. Harshaw, Senior analyst, Accenture, Chennai.

Date : 03.02.2022

Venue : E-Classroom, SITAMS.

Target Audience : II year CSM students.



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A One Day Seminar
On
“ Recent Trends in Artificial Intelligence”



Introduction: The main objective of this workshop is to introduce the recent trends in artificial Intelligence. It covers an overview of machine learning applications. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many researches are going on in recent trends in artificial intelligence. Hence by providing these types of workshops for the students, will make them to be more comfortable in recent trends. At the end of this workshop, the participants are able to express about the recent trends of artificial intelligence and their applications.

Seminar Contents:

- Greater Cloud and AI collaboration.
- Automated Machine Learning.
- AI in structuring data.
- AI-enabled conceptual design
- Responsible AI

Speaker's Details : Dr. C. Sivapragash, Professor, Swarnandhra College of Engineering and Technology

Dr. T. Sheela , Associate Professor, Vinayaka Mision's kirupananda Variyar Engineering College.

.Date : 31.01.2022

Venue : Gallery, SITAMS.

Target Audience : II year CSM students.



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A One Day Guest Lecture

On

“Introduction to Block Chain Technologies”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of blockchain. It covers an overview of Blockchain Technologies and its applications. The participants obtain deep insights of blockchain technology, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many research is going on blockchain technologies. Hence by providing these type of workshops for the students at their UG level, will make them to be more comfortable in basics. At the end of this workshop, the participants are able to express about the blockchain technologies and its applications in real time problems.

Guest Lecture Contents:

- Getting Started with Blockchain Technology
- Blockchain fundamental
- Blockchain Intuition
- Cryptocurrency Intuition

Speaker's Details : Dr. C.Suganthi Evangeline, Assistant Professor, Karunya Institute of Technology and Sciences, Coimbatore.

Dr. G. Vishnu Vardhan, Assistant Professor, Aditya Engineering College, Andhra Pradesh.

Date : 05.01.2022

Venue : E-Classroom, SITAMS.

Target Audience : II year CSM students.



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A One Day Seminar

On

“Data Mining and Warehousing”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Data Mining and Warehousing. The participants obtain deep insights of data mining and warehousing, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many researches are interested in data mining and warehousing. Hence by providing these types of workshops for the students at their UG level, will make them to be more comfortable in basics. At the end of this workshop, the participants are able to express more knowledge about data mining and warehousing.

Value Added Course Contents:

- Introduction to Data Mining and Warehousing
- Data Mining Functionalities
- Data Warehouse Architectures
- Preprocessing of Data

Speaker's Details : Ms. P. Leelavathi, Assistant Professor, Department of CSE, SITAMS

Date : 19.01.2022

Venue : Gallery, SITAMS.

Target Audience : II year CSM students.



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A One Day Guest Lecture

On

“Introduction to Cloud Computing”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Cloud computing. The participants obtain deep insights Cloud computing, Cloud Security, Architectures, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent years, we are using many cloud based applications directly or indirectly By providing these type of workshops for the students at their UG level, helps them to learn cloud computing and its application.

Guest Lecture Contents:

- Introduction to cloud platforms,
- Cloud architectures and models
- Cloud Security
- Cloud Services and Applications

Speaker's Details : Dr. D. Nagaraju, Professor & Dean,
Sri Venkatesa Perumal College of Engineering and Technology,
Puttur

Date : 27.12.2021

Venue : E-Clasroom, SITAMS.

Target Audience : II year CSM students.



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One Day Workshop

On

“Machine Learning and its Applications”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of machine learning. It covers an overview of machine learning applications. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many researches are going on in deep learning and machine learning. Hence by providing these type of workshops for the students at their UG level, will make them to be more comfortable in basics. At the end of this workshop, the participants are able to express about the Machine learning algorithms.

Workshop Contents:

- Introduction to Machine Learning
- Machine learning Algorithms
- Machine Learning Applications
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Speaker’s Details : Dr. K. Vinoth Babu, Associate Professor Senior, VIT University,
Vellore

Dr. C. Suganthi Evangeline, Assistant Professor, Karunya Institute of
Technology and Sciences, Coimbatore

Date : 20.12.2021

Venue : Gallery, SITAMS.

Target Audience : II year CSM students.



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A One Day Guest Lecture
On
“Tools for Professional Writing”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Tools for Professional Writing. It covers an overview of writing tools like LATEX.

LateX is a high quality typesetting system; it includes features designed for the production of technical and scientific documentation. This workshop benefits all specialization for report and journal document preparation.

Hence to motivate the students and to enhance their skills, this workshop will be more benefitted.

Guest Lecture Contents:

- Introduction about LaTeX
- Installation procedure
- Document Structure, Typesetting text
- Preparation of documents using LaTeX
- Preparation of PPTs
- Comments for creating tables, inserting figures, equation etc.,
- Applications of LaTeX

Speaker's Details : Dr. G.Vishnu Vardhan, Assistant Professor, Aditya Engineering College, Andhra Pradesh.

Dr. C.Suganthi Evangeline, Assistant Professor, Karunya Institute of Technology and Sciences, Coimbatore.

Date : 02.12.2021

Venue : Gallery, SITAMS.

Target Audience : II year CSM students.



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A One Day Guest Lecture
On
“IoT and its Applications”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of Internet of Things.

In recent days, many researches are going on in IoT. Hence by providing these type of workshops for the students at their UG level, makes them learn how to enable network interface and communication of physical objects, devices and peripherals which can communicate and exchange information between each other without depending on human to human or human to computer interaction.

Guest Lecture Contents:

- Theoretical aspects of IoT, Circuit Simulation and Design Tools using SIMTEL.
- How to use Embedded Technology and its Development Platforms.
- Zigbee, Bluetooth, GSM, GPS and WiFi interfacing with Arduino and data upload on cloud.
- Introduction of Raspberry Pi Processor and its components.

Speaker's Details : Dr. M. R. Mohanraj, Associate Professor, Excel Engineering College,
Komarapalayam, Tamil Nadu.

Dr.C.Kumar, Professor, Ganadipathy Tulsi's Jain Engineering College,
Vellore.

Date : 25.11.2021

Venue : E-Classroom, SITAMS.

Target Audience : II year CSM students.



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A One Day Workshop
On
“Introduction to Machine Learning”



Introduction: The main objective of this workshop is to introduce the fundamental concepts of machine learning. It covers an overview of machine learning applications. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation for their further studies.

In recent days, many researches are going on in deep learning and machine learning. Hence by providing these type of workshops for the students at their UG level, will make them to be more comfortable in basics. At the end of this workshop, the participants are able to express about the supervised and unsupervised learning algorithms.

Workshop Contents:

- Basics of Machine learning algorithms
- Machine learning process
- Types of machine learning algorithms
- Unsupervised learning methods with examples
- Supervised learning methods with example
- Applications of machine learning algorithm

Speaker's Details : Dr. R.Dhivya, Assistant Professor, Kingston Engineering College, Vellore.

Dr.C.Kumar, Professor, Ganadipathy Tulsi's Jain Engineering College, Vellore.

Date : 17.11.2021

Venue : E-classroom, SITAMS.

Target Audience : II year CSM students.