



ABOUT THE INSTITUTION

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalassery established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology. B.Tech. Programmes in Computer Science and Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Civil Engineering are accredited by the National Board of Accreditation (NBA). The institution is also accredited by NAAC and certified by ISO 9001:2015.

INFORMATION FOR PARTICIPANTS

• ELIGIBILITY

The FDP is open to faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government and Industry.

• REGISTRATION DETAILS

All the participants are requested to register online by filling the following form

<https://forms.gle/Xs4CdnBUcku4vsj18>

on or before 13th March, 2022.

Registration for all the participants is mandatory.

- ONLINE SESSION DETAILS WILL BE COMMUNICATED TO THE REGISTERED PARTICIPANTS THROUGH EMAIL.
- REGISTRATION IS FREE.
- E-CERTIFICATE WILL BE ISSUED TO THE PARTICIPANTS.



CSI Sponsored

One week

Online Faculty Development Programme

on

ADVANCES IN NATURAL LANGUAGE PROCESSING USING AI

14th March 2022 - 18th March 2022

Organized by

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



VIMAL JYOTHI ENGINEERING COLLEGE

Chemperi, Kannur, Kerala - 670 632

www.vjec.ac.in



NBA: B.Tech CE, CSE, EEE & ME



NAAC ACCREDITED

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering was established in 2002 and is accredited by NBA up to 30.06.2023. The Department offers M.Tech & B.Tech programmes in Computer Science & Engineering, B.Tech programme in Artificial Intelligence & Data Science, and B.Tech programme in Computer Science & Design. The Department of CSE is deeply committed to provide high - quality undergraduate and postgraduate education. The courses have a comprehensive curriculum aimed to provide knowledge, in both theoretical and practical aspects of Computer Science and related streams, with an emphasis on practical learning.

ABOUT THE COURSE:

With the advent of new technologies, Natural Language Processing has become a trending area to be learned, and it compiles intricate and advanced analytical methods of Artificial Intelligence. This FDP covers the fundamentals of Machine learning and NLP using Deep learning with Python, Language modeling and text applications, Distributional semantics, concepts of modern RNNs and concepts of Encoder-Decoder, Attention mechanism and Transformer network.

COURSE OUTCOMES:

After the completion of this FDP participants will be able to

- CO1 : Demonstrate Machine Learning concepts in Python .
- CO2 : Understand the fundamental concepts of NLP and Deep learning.
- CO3 : Illustrate Language modeling, Text Applications and Distributional semantics.
- CO 4 : Understand the concepts of modern RNNs like LSTM, GRU, Encoder - Decoder model.
- CO 5 : Demonstrate the concepts of Encoder-Decoder, Attention Mechanism and Transformer Network.

SYLLABUS:

Fundamentals of Machine learning, Concepts of NLP using Deep Learning, Deep learning-based machine translation, Basics of text processing, Language modeling, Distributional semantics and word embedding, Morphology, POS Tagger, syntax analysis , Context-free grammar, word sense disambiguation, Modern RNNs like LSTM, GRU, Encoder-Decoder model, Transformer network, Attention mechanism, Multimodal NLP.

ORGANIZING COMMITTEE

CHIEF PATRON

Rev. Fr James Chellamkottu

(Manager)

PATRON

Dr. Benny Joseph

(Principal)

CONVENER

Dr. Jeethu V. Devasia

(Professor, HoD - CSE)

COORDINATORS

Ms. Namitha Parikkal

(Assistant Professor, CSE)

Mobile Number : **7907614160**

Ms. Sreedhanya M.V.

(Assistant Professor, CSE)

Mobile Number : **7560864688**

Email : fdpcse@vjec.ac.in