



Government Women's Polytechnic College

[Approved by All India Council for Technical Education
NBA Accredited Diploma in Computer Engg. (2019-22)]
Nedupuzha, Thrissur, Kerala, INDIA – 680007 web: gwpctsr.ac.in

All India Council for Technical
Education New Delhi

AICTE Training and Learning
Academy (ATAL)

Faculty Development Programme on Artificial Intelligence

by
Computer Engg. Department
14th – 18th September 2020



DTE & Higher Education Department
Thiruvananthapuram, Kerala, INDIA

About Us

Govt. Women's Polytechnic College, Thrissur, is the only Women's College in Govt. sector in Thrissur and one of the pioneer institutions in the field of Technical Education. Being an institution dedicated to the empowerment of women, it has been serving the people of this land for the past 58 years, since its establishment in 1962. Located at Thrissur, the cultural capital of Kerala, many students who passed out from this institution have achieved great heights in their personal life and have also brought glory to the nation with their contributions. This institution since its inception has been working with its mission of developing and promoting quality technical education to Women from Thrissur and from various other districts of Kerala.

We have hosted State, National and International programmes for faculties of Technical Education in our campus. As part of MSDE-UKIERI project we conducted an FDP in 2019 in which two resource persons were from UK. Also we conducted in-campus FDP on Student Induction Programme funded by AICTE during 2019 in which 150 faculty members participated from different states of the country.

Our Vision
To be a centre of excellence for empowerment of women by developing professional competencies and skills with social orientation through value-based technical education
Our Mission
M-1: To have state-of-the-art-infrastructure.
M-2: Enhancing engineering skills and creativity through innovative Teaching-Learning methods.
M-3: Imparting technical knowledge and skills with values and ethics in tune with current industrial trends.
M-4: Inculcating leadership qualities and commitment to society & environment.



ATAL was established with the vision to empower faculty to achieve goals of Higher Education such as access, equity and quality.

- To set up an Academy which will plan and help in imparting quality technical education in the country.
- To support technical institutions in fostering research, innovation and entrepreneurship through training
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resources for delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements

Computer Engineering Department

Diploma in Computer Engineering in GWPC Thrissur was commenced in 1987. Around 1300 girl students have successfully completed Diploma in Computer Engg. since then. Many students secured professional jobs and others went for higher education. Considering the excellent performance of the department, Govt. of Kerala selected the department for approaching NBA for accreditation. The Computer Engg. Diploma programme secured NBA accreditation as the first NBA Accredited Diploma programme in the State of Kerala under Outcome Based Education (OBE) for 3 years from 2019 to 2022.

We conducted many FDPs for the faculty of Technical Education Department during the past years. Considering the experience acquired from these FDPs, ATAL selected us to conduct an FDP on Artificial Intelligence.

Artificial Intelligence

It is one of the fastest growing area of Computer Engineering. Many technological innovations are based on AI. Every Engineering faculty should be well aware about this technological development. The 5 day FDP is designed to achieve this intention.

Focus Group

Computer & Electronics Engineering Faculty of Polytechnic Colleges.

Mode of Programme

The programme will be conducted in online mode as per the time schedule given below. The participants must have a Personal Computer with Internet connectivity to attend the theory & hands-on sessions.

Programme Schedule					
09:30-11:00		11:15-12:45		1:45-3:15	3:30-5:00
14-9-2020	Inauguration, Introduction to Artificial Intelligence and its applications	Types of Machine Learning		Hands-on session with Python for ML	Hands-on session with Python for ML
15-9-2020	Supervised ML Algorithms: Linear Regression, Classification: Logistic Regression, Support Vector Machine	Non-Parametrized Models: K-NN & Naive Bayes Classifier		Hands-on session with python packages for numerical computation and visualisation - numpy and matplotlib	Hands-on session with python package for data manipulation - pandas
16-9-2020	Supervised ML Algorithm: Tree based Models - Decision Tree Ensemble Techniques - Boosting and Bagging, Random Forest	Unsupervised ML Algorithm: clustering Methods		Hands-on session with python package for ML - sci-kit learn (Supervised Learning Models)	Hands-on session with python package for ML - sci-kit learn (Unsupervised Learning Models)
17-9-2020	Artificial Neural Network	Deep Neural Network(DNN)and Convolution Neural Network(CNN) for Computer Vision		Hands-on session with Python package for DL - keras (DNN)	Hands-on session with Python package for DL - keras (CNN)
18-9-2020	Recurrent Neural Network - LSTM	Recurrent Neural Network - Time Series Prediction, Case study with COVID-19 forecasting		AI Research & Projects	Valedictory

Resource Persons:

Dr.Pooja Jain, HoD Computer Science Engg, IIT Nagpur Dr.Ramani Bai V, Prof & Head- CSE and VCAIR Dr. V. N. Krishnachandran, Vice-Principal, VAST	Suraj Rajappan, AP, VAST Ravishankar S, VCAIR, AP (VCAIR-Vidya Centre for AI and Research, Thrissur)
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