



# VEMU INSTITUTE OF TECHNOLOGY

P.Kothakota, Near Pakala, Chittoor (Dt.), AP - 517112

## Three day Faculty Development Program (FDP)

on

“Application of Artificial Intelligence for  
the solution of Large scale Renewable  
Energy Integrated Power Systems  
Problems”

BY

Dr.S.Farook, Professor in EEE, Sree  
Vidyanikethan Engineering  
College, A.Rangampeta

&

Dr.M.Rama Sekharara Reddy, Assistant  
professor, JNTUA, Ananthapuram, A.P

Date: 04-12-2017 to 06-12-2017

Target: Faculty Members



Date:01-12-2017

**CIRCULAR**

It is hereby informed to all the staff members that the department of EEE is going to conduct Three day Faculty Development Program (FDP) on "**Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems**" from 4-12-2017 to 6-12-2017. Hence all the staff members are advised to attend the FDP without fail.

**HOD**

**HEAD**

**DEPARTMENT OF EEE**  
**VEMU INSTITUTE OF TECHNOLOGY**  
**P. KOTHAKOTA - 517 112**

Copy to Principal sir for Information

Circulate to all EEE Faculty

*Handwritten signatures:*  
P.P.S.  
W.S.  
B. Srinivasan  
P.R.  
N.S.  
G.  
M.S.

**PRINCIPAL**  
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# VEMU INSTITUTE OF TECHNOLOGY

P. Kothakota, Near Pakala, Chittoor(Dt.), AP - 517112

Date: 03-12-2017

Three day Faculty Development Program (FDP) on "Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems" from 04-12-2017 to 06-12-2017

### Program Schedule

S.No	DATE	TIME	TOPIC NAME	RESOURCE PERSON
1	04-12-2017	10.30 AM to 12.30 PM	Introduction to Artificial Intelligence Techniques	Dr.S.Farook Professor in EEE, Sree Vidyanikethan Engineering College,A.Rangampeta
		2.00 PM to 4.00 PM	Details about Heuristics, Support Vector Machines, Neural Networks, the Markov Decision Process, and Natural Language Processing	
2	05-12-2017	10.30 AM to 12.30 PM	Smart rotors & Multi-rotor wind turbines	Dr M.Rama Sekharara Reddy, Assistant professor, JNTUA, Ananthapuram, A.P
		2.00 PM to 4.00 PM	Wind turbine with tip-rotors	
3	06-12-2017	10.30 AM to 12.30 PM	Wind Energy Manufacturing and Quality Control	
		2.00 PM to 4.00 PM	Wind Energy Applications and Technologies	

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*Handwritten signatures and initials:*  
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 S.S.  
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 S.F.

*Official stamps:*  
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Department of Electrical and Electronics

Academic Year: 2017-18

Sem: I

Attendance Sheet of Three day Faculty Development Program (FDP) on "Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems" from 4-12-2017 to 6-12-2017

S.No	Name of the faculty	04-12-2017 (FN)	04-12-2017 (AN)	05-12-2017 (FN)	05-12-2017 (AN)	06-12-2017 (FN)	06-12-2017 (AN)
1	Dr D.Obulesu	✓	✓	✓	✓	✓	✓
2	Dr D.Chandrasekhar	✓	✓	✓	✓	✓	✓
3	Dr. A.Hemasekhar	A.H.sec	A.H.sec	A.H.sec	A.H.sec	A.H.sec	A.H.sec
4	M.Murali	M.M	M.M	M.M	M.M	M.M	M.M
5	Y.P.Swapna	Y.P.S	Y.P.S	Y.P.S	Y.P.S	Y.P.S	Y.P.S
6	K.Dillibabu	Dilina	Dilina	Dilina	Dilina	Dilina	Dilina
7	C MD Shareef	Co.MD.S	Co.MD.S	Co.MD.S	Co.MD.S	Co.MD.S	Co.MD.S
8	A.Haritha	A	A	A	A	A	A
9	N.Devasena	N	N	N	N	N	N
10	T.Rajasekhar	T.R	T.R	T.R	T.R	T.R	T.R
11	Y.Nagarjunareddy	Y.N	Y.N	Y.N	Y.N	Y.N	Y.N
12	K.Sruthi	K	K	K	K	K	K
13	V.Geetha	Geetha	Geetha	Geetha	Geetha	Geetha	Geetha
14	K.Sumalatha	K.S	K.S	K.S	K.S	K.S	K.S

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**Department of Electrical and Electronics**

Academic Year: 2017-18

Seat: 1

15	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj
16	V.Ramesh	R	R	R	R	R	R
17	B.Gamya	B.Gamya	B.Gamya	B.Gamya	B.Gamya	B.Gamya	B.Gamya
18	T. Narasimha reddy	T.Narasimha reddy	T.Narasimha reddy	T.Narasimha reddy	T.Narasimha reddy	T.Narasimha reddy	T.Narasimha reddy
19	N.Vaseem Raja	N.Vaseem Raja	N.Vaseem Raja	N.Vaseem Raja	N.Vaseem Raja	N.Vaseem Raja	N.Vaseem Raja
20	B. Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani
21	B.Anil Kumar	B.Anil Kumar	B.Anil Kumar	B.Anil Kumar	B.Anil Kumar	B.Anil Kumar	B.Anil Kumar

  
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DEPARTMENT OF EEE  
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## PARTICIPATION CERTIFICATE

This is to certify that Y.P. Swapna working as Assistant Professor of Dept of EEE has actively participated in Three day Faculty Development Program (FDP) on "Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems" from 4-12-2017 to 6-12-2017, Organized by the Department of Electrical and Electronics Engineering, VEMU Institute of Technology, P.Kothakota, Chittoor(Dt), A.P.

  
**M. Murali**  
Coordinator

  
**Dr. D. Chandra Sekhar** PRINCIPAL  
HOD-EEE  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112

  
**Dr. KVVVN Rao**  
Principal





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## PARTICIPATION CERTIFICATE

This is to certify that K. Dillibabu working as Assistant Professor of Dept of EEE has actively participated in Three day Faculty Development Program (FDP) on "Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems" from 4-12-2017 to 6-12-2017, Organized by the Department of Electrical and Electronics Engineering, VEMU Institute of Technology, P.Kothakota, Chittoor(Dt), A.P.

  
**M. Murali**  
Coordinator

  
**Dr. D. Chandra Sekhara** PRINCIPAL  
HOD-EE **VEMU INSTITUTE OF TECHNOLOGY**  
P. KOTHAKOTA - 517 112

  
**Dr. KVVVN Rao**  
Principal



**VEMU INSTITUTE OF TECHNOLOGY**  
P.Kothakota, Near Pakala, Chittoor(Dt.), AP - 517112

Date 06-12-2017

Three days Faculty Development Program (FDP) on "**Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems**" from 4-12-2017 to 6-12-2017

**Report**

The Department of Electrical & Electronics Engineering Organized Three day Faculty Development Program (FDP) on "**Application of Artificial Intelligence for the solution of Large scale Renewable Energy Integrated Power Systems Problems**" from 4-12-2017 to 6-12-2017 under VETA Association.

In Day 1, Dr.S.Farook explained about some fundamental AI techniques: Heuristics, Support Vector Machines, Neural Networks, the Markov Decision Process, and Natural Language Processing. In Day 2, discussed about typical disturbance rejection problem with rate limit, parameter variations, structural uncertainties and communication delays. Advanced control techniques are expected to be applied to improve the control performance

In Day 3, Dr.M.Rama Sekhar Reddy discussed as a part of Renewable Energy, wind power conversion systems have been increasingly employed in the U.S., Europe, India, and more sparingly in some other locations over the last decade, due to the development of technology that allows relatively high efficiency of the wind resource conversion. The key process is the conversion of the kinetic energy of moving air into the mechanical kinetic energy of rotating shaft of the turbine.



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