



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

కాకతీయ ప్రేయోగికీ एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ५०६ ०१५

NAAC - 'A' Grade accredited Institute (CGPA : 3.21)

MHRD NIRF-2019 Rank - 180

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FDP REPORT

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1- WEEK FACULTY DEVELOPMENT PROGRAMME

on

RECENT ADVANCES IN ELECTRICAL ENGINEERING – 2019

9th – 14th December, 2019

Prof. V. Rajagopal
Dr. D. Rakesh Chandra
Coordinators

Prof. C. Venkatesh
Head, EEED
Prof. V. Ramaiah
Convenors

Sponsored by:



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<p>One Week Faculty Development Program on Recent Advances in Electrical Engineering – 2019 (RAEE-2019) (December 9 – 14, 2019)</p> <p>Registration Form</p> <p>Name: _____</p> <p>Designation: _____</p> <p>Organization: _____</p> <p>Correspondence Address: _____</p> <p>PIN code _____</p> <p>Phone # _____</p> <p>Email: _____</p> <p>Accommodation Required: Yes/No</p> <p>Category: Academic/Industry/Research Scholar</p> <p>Signature of the Participant</p> <p>Date: _____</p> <p>Place: _____</p> <p>Signature of the Head of the Institute/ Sponsoring Authority (With Date and Seal)</p>	<p>Chief Patron Dr. Alluri Murthy Raju Chairman, KITS Warangal</p> <p>Patron Capt. V. Lakshmikantha Rao Secretary & Correspondent, KITS Warangal Sri. P. Narayana Reddy Treasurer, KITS Warangal</p> <p>Chairman Dr. K. Ashoka Reddy Principal, KITS Warangal</p> <p>Conveners Prof. C. Venkatesh HOD, Dept. of EEE, KITSW Prof. V. Ramaiah Dept. of EEE, KITSW</p> <p>Coordinators Prof. V. Rajagopal Dept of EEE, KITSW Dr. D. Rakesh Chandra Asst. Prof, Dept of EEE, KITSW</p> <p>Organizing Committee Sri. M. Narasimha Rao, Assoc. Professor Sri. G. Rajendar, Assoc. Professor Sri. B. Jagadish Kumar, Assoc. Professor Dr. G. Rajender Naik, Assoc. Professor Dr. G. Sudheer Kumar, Assoc. Professor Dr. B. Vijay Kumar, Assoc. Professor Sri. P. Nagarjuna Reddy, Asst. Professor Sri. C. Pavan Kumar, Asst. Professor Sri. K. Ajith, Asst. Professor Sri. T. Praveen Kumar, Asst. Professor Dr. Y. Manjusree, Asst. Professor Dr. A. Madhukar Rao, Asst. Professor Dr. A. Rajasekhar, Asst. Professor Sri. M. Santhosh, Asst. Professor Sri. G. Sunil Kumar, Asst. Professor Sri. M. Srinivas, Asst. Professor Sri. V. Srinivas, Asst. Professor Sri. V. Prakash, Asst. Professor Sri. G. Rakesh Yadav, Asst. Professor Dr. M. Murali, Asst. Professor Sri. B. Reshma, Asst. Professor Sri. K. Srinivas, Asst. Professor Sri. P. Mahesh, Asst. Professor Smt. M. Spandana, Asst. Professor</p>	  <p>One Week Faculty Development Program on Recent Advances in Electrical Engineering – 2019 (RAEE-2019)</p> <p>December 9 – 14, 2019</p> <p>Organized by Department of Electrical & Electronics Engineering Kakatiya Institute of Technology & Science, Warangal (An AUTONOMOUS Institute under Kakatiya University-Warangal) Opp: Yerragattu Gutta, Hasanparthy (M) Warangal-506015 (T.S.), INDIA Tel (0870) 2564858, Fax: (0870) 2564320 Website: www.kitsw.ac.in</p>  
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ABOUT THE INSTITUTE:

Kakatiya Institute of Technology & Science, Warangal (KITSW), was established in 1980 with affiliation to Kakatiya University and it became Autonomous Institution under Kakatiya University in the year 2014. It has attracted academicians of proven competence onto its faculty, placed its products in reputed organisations all over the World and gained recognition amongst academic circles. The Institute aims to prepare the students for meeting the challenges of the growing and changing needs of industry through delivering high quality technical education blended with training and research. The college is approved by All India Council for Technical Education (AICTE), accredited by NAAC 'A' Grade with a CGPA of 9.21, ranked 180 by MHRD in NIRF - 2019 and all the UG Engineering programmes are accredited by National Board of Accreditation (NBA), New Delhi. The institute is located 13 Kms and 20 Kms from Kazipet junction and Warangal respectively, on Warangal - Karimnagar highway.

ABOUT EEE DEPARTMENT:

The department of Electrical & Electronics Engineering (EEE) was established in the year 1994. The current intake in to UG program B.Tech (EEE) is 120 and PG program M.Tech (PE) is 18. The department was accredited by NBA (Tier - II) for the first time in 2011 and subsequently got re-accredited in 2016. Presently, department is accredited by NBA under Tier - 1 in the year 2019. The department has well established laboratories. The department has dedicated and qualified faculty with 3 Professors, 6 Associate Professors, 21 Assistant Professors with 10 Doctorates.

ABOUT THE FDP:

Electrical energy generation from renewable energy sources such as solar, wind etc., are widely adopted due to the increase in electricity consumption. The integration of renewable energy sources with the grid plays an important role in energy utilization. It is difficult to utilise electricity from renewable energy sources directly for the injection of power into the grid. Hence the system needs power electronic converters as an interface between renewable energy sources and grid/load.

Multilevel inverters are the preferred choice of industry for the application in high voltage and for high power application. Multilevel inverter technology has emerged recently as a very important alternative in the area of high-power medium-voltage energy control.

There are challenges in interconnection of solar PV system to grid. The main technical challenge of solar PV system connected to grid is its effect on power quality which include harmonics, voltage fluctuation, low power factor, reactive power and load management etc.

The studies for hybrid electrical vehicle (HEV) have attracted considerable attention because of the necessity of developing alternative methods to generate energy for vehicles due to limited fuel based energy. HEV incorporates internal composition engine, electric machines and power electronic equipment. The intensive design idea in traditional substation, switch station and other places has gained popularity and the promotion.

Optimization techniques are essential in the planning of large electrical systems, optimization of power flows, and a wide variety of other electrical engineering problems.

FDP Course Contents:

- Multilevel inverters for renewable energy
- Power Quality Issues for Integration of Solar Power to the Grid
- Wind Power Forecasting & Grid Integration Issues
- Optimal design of electric vehicle charging stations
- Application of Electrical Drives in Electrical Vehicles
- Smart Grid
- Data Acquisition and Control
- Intellectual Property Rights
- Lab sessions on latest software tools
- Hands on Sessions on SPVTR Kit
- Visit to rooftop grid connected solar PV system

TECHNICAL ADVISORY COMMITTEE

Dr. D. M. Vinod Kumar, Professor, NITW
 Dr. Y. Chandrashekhar, Asst. Prof. NITW
 Dr. T. Vinay Kumar, Asst. Prof. NITW
 Dr. C. Venkatesh, Professor, KITSW
 Prof. V. Ramaiah, Professor, KITSW
 Dr. V. Rajagopal, Professor, KITSW

Registration:::

Academicians / Industry Persons	Rs. 1500
Research Scholars	Rs. 1000

Registration fee may be sent to coordinator in the form of DD along with registration form duly sponsored by Head of the Institution. DD must be drawn in favor of "RAEE2019, KITS, Warangal" payable at Warangal.

Last date of receiving applications: 05th Dec, 2019

Intimation of acceptance: 06th Dec, 2019

Send your Entries to:

The Convener RAEE-2019

Department of Electrical & Electronics Engineering

Kakatiya Institute of Technology & Science

Opp: Yerragattu Hillock, Hasanparthy (M)

Warangal-506015 (T.S.), INDIA

Tel: (0870) 2564588-(ext.)304 Fax: (0870) 2564320

Email: raeekitw2019@gmail.com

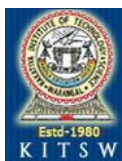
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FDP Schedule

Day	9.45- 10.45	10.45-11.15		11.30-1.00		14.00-15.15		15.30-16.45
MONDAY 09.12.2019	Registration	Inaugural Session	TEA BREAK	Key Note Address (Prof. D. M. Vinod Kumar, NITW)	LUNCH	Multi Objective Optimization (Dr. Y. Chandrashekar, NITW)	TEA BREAK	Optimal Design of Electric Vehicle Charging Stations (Dr. Y. Chandrashekar, NITW)
TUESDAY 10.12.2019	Multilevel Inverters for Solar PV Systems (Prof. C. Venkatesh, KITSW)	Application of Electrical Drives in Electrical Vehicles (Dr. T. Vinay Kumar, NITW)		Wind Power Forecasting & Grid Integration Issues (Dr. D. Rakesh Chandra, KITSW)		Solar PV Training and Research Kit (Practical Session)		
WEDNESDAY 11.12.2019	Programming of Low Cost Hardware board using Matlab Software (Expert from Mathworks)	Programming of Low Cost Hardware board using Matlab Software (Expert from Mathworks)		Power Electronic & Power System Applications using Matlab Software (Expert from Mathworks)		Power Electronic & Power System Applications using Matlab Software (Expert from Mathworks)		
THURSDAY 12.12.2019	Intellectual Property Rights (Prof. K. Ashoka Reddy, Principal, KITSW)	Power Quality Issues in Solar Interconnection to Grid (Prof. V. Rajagopal, KITSW)		Data Acquisition and Control (Prof. Venumadhav, KITSW)		Visit to 100kW Roof Top Solar Plant		
FRIDAY 13.12.2019	Study of Renewable Energy Systems Using MiPower Software (Expert from PRDC, Blore.)	Study of Renewable Energy Systems Using MiPower Software (Expert from PRDC, Blore.)		Power Electronic Applications using PSIM (Expert from Tech Labs, Hyd.)		Power Electronic Applications using PSIM (Expert from Tech Labs, Hyd)		
SATURDAY 14.12.2019	Distribution System (Prof. V. Ramaiah, KITSW)	Energy Balancing and fault Tolerance ability of DC - AC converters (Dr. A. Madhukar Rao, KITSW)		Nanotechnology Application to Electrical Engineering (Dr. G. Sudheer Kumar, KITSW)		Valedictory		

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL

(An AUTONOMOUS Institute under Kakatiya University - Warangal)



INVITATION

The Management, Principal, Faculty and Staff cordially invite you to
the **inaugural function** of
One Week Faculty Development Program
on
RECENT ADVANCES IN ELECTRICAL ENGINEERING – 2019

(December 9th – 14th, 2019)

Organized

by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

In association with ISTE

Prof. D.M. Vinod Kumar

Dept. of Electrical Engineering, NIT, Warangal

has kindly consented to be the Chief Guest

Capt. V. Lakshmikantha Rao

Secretary & Correspondent, KITSW

Member of Parliament (Rajya Sabha)

will preside over the function

Sri P. Narayana Reddy

Treasurer, KITSW

will grace the occasion

Date & Time: 9.12.2019, Monday at 10:45 AM

Venue: Silver Jubilee Seminar Hall

Prof. V. Rajagopal
Dr. D. Rakesh Chandra
Coordinators

Prof. C. Venkatesh
Head, EEED
Prof. V. Ramaiah
Convenors

Prof. K. Ashoka Reddy
Principal



Inaugural Function of RAEE – 2019

PROGRAMME SCHEDULE

- 10:45 a.m. : Welcome Note
- 10:48 a.m. : Inviting dignitaries on to the dais
- 10:53 a.m. : Jyothi Prajwalana & Invocation Song
- 10:56 a.m. : Report by Program Coordinator, *Prof. V. Rajagopal*, EEED
- 11:00 a.m. : Address by Convenor, *Prof. V. Ramaiah*, EEED
- 11:03 a.m. : Address by Convenor & HOD, *Prof. C. Venkatesh*, EEED
- 11:06 a.m. : Introduction of Chief Guest
- 11:08 a.m. : Address by Chief Guest, *Prof. D.M. Vinod Kumar*, NITW
- 11:13 a.m. : Presidential Remarks by Principal, *Prof. K. Ashoka Reddy*
- 11:18 a.m. : Felicitation of Chief Guest
- 11:20 a.m. : Vote of Thanks
- Tea Break
- Keynote address by Chief Guest follows....

DATE: 9-12-2019

TIME: 10.45 - 11.15

SESSION: 1

TITLE: Inaugural Function

- Jyothi Prajwalana was done by Chief Guest Prof. D.M. Vinod Kumar and Principal.
- Prof. V.Rajagopal has given Introduction about the workshop.
- Prof. C.Venkatesh, HoD has mentioned department strengths and workshop details.
- Principal, Professor K. Ashoka Reddy has given speech about the role of FDPs to improve technical skills and knowledge.
- Prof. D. M. Vinod Kumar has given his comments regarding advancements in Electrical Engineering
- Word of thanks by Dr.D. Rakesh Chandra.



Photo 1: Prof. D.M. Vinod Kumar while doing Jyothi Prajwalana

DATE: 9-12-2019

TIME: 11.30-1.00

SESSION: 2

TITLE: Key Note Address

RESOURCE PERSON: Dr.D.M. Vinod Kumar, Professor, EED, NIT Warangal

REPORT: In this session Professor Vinod kumar Addressed on the following issues.

- Total Power Installed capacity in India.
- How Blackouts occur and practical information about Blackout in India during July 2012.
- Essence of Phasor Measurement Units (PMU) and placement of PMU
- Basics of Smart grid and the differences between traditional grid and the smart grid and also mentioned the advantages of smart grid when compared to the conventional grid.
- Introduction to Demand Side Management (DSM) studies.



Photo 2: Prof.Vinod Kumar, NITW while delivering the Lecture

SESSION: 3

TITLE: Multi Objective Optimization

RESOURCE PERSON: Dr.Y.Chandrashekar, Assistant Professor, EED, NIT Warangal

REPORT: In this session Dr.Y.Chandrashekar delivered the following points in his lecture.

- Definition of the Multi Objective Optimization.
- Constraints involved in the Multi Objective Optimization.
- How the problems can be formulated and addressed by using Multi Objective Optimization.
- How to find Pareto Optimal solutions for Multi objective problems by taking an example (by considering Car comfort and its price)
- NSGA Flow Chart
- Discussion on Crowded tournament selection operator



Photo 3: Dr. Chandrashekar, NITW while delivering the Lecture

DATE: 9-12-2019

TIME: 15.30-16.45

SESSION: 4

TITLE: Optimal Design of Electric Vehicle Charging Stations

RESOURCE PERSON: Dr.Y. Chandrashekar

REPORT: In this session Dr.Y.Chandrashekar delivered the following points in his lecture.

- Importance of DC fast charging stations
- Location of fast charging stations.
- Using 118 bus system how to divide into zones and how to identify optimal locations of fast charging stations using Multi Objective Optimization.
- Charging probability of electric vehicle in hour during a day.



Photo 4: Dr.Y.Chandrashekar while delivering the Lecture

SESSION: 5

TITLE: Multilevel Inverters for Solar PV system

RESOURCE PERSON: Dr.C.Venkatesh, Professor, EED, KITSW

REPORT: In this session Prof.C.Venkatesh delivered the following points in his lecture.

- Various configurations of Solar PV systems.
- Purpose of batteries in PV system.
- Modeling of solar cell/ Array.
- Classification of Inverters and Multilevel inverter topologies.
- Five level T type transformer less T type inverter.
- Control schemes and PWM techniques for Multi Level Inverters.



Photo 5: Prof. C.Venkatesh while delivering the Lecture

DATE: 10-12-2019

TIME: 11.30-1.00

SESSION: 6

TITLE: Power Quality Issues in Solar Interconnection to Grid

RESOURCE PERSON: Dr.V.Raja Gopal, Professor, EED, KITSW

REPORT: In this session Prof. V.Raja Gopal delivered the following points in his lecture.

- Detailed explanation of IV and PV curves (with different radiations and temperatures).
- Description of Perturbation and Observe Algorithm.
- Formation of harmonics and calculation of Total Harmonic Distortion (THD).
- SRF Algorithm.
- Hall Effect voltage sensor circuit description.
- PI based control algorithm.



Photo 6: Prof. Rajagopal while delivering the Lecture

SESSION: 7

TITLE: Wind power Forecasting and Grid integration Issues

RESOURCE PERSON: Dr.D.Rakesh Chandra, Assistant Professor, EED, KITSW

REPORT: In this session Dr.D.Rakesh Chandra delivered the following points in his lecture.

- Basics and different types of wind turbines.
- The essence of wind power forecasting and what are the various methods for wind power forecasting available are discussed.
- Wind Power curve is explained with the help of practical wind turbine sheets.
- Wind power forecasting using artificial neural networks and wavelets method were discussed.



Photo 7: Dr. D. Rakesh Chandra while delivering the Lecture

DATE: 10-12-2019

TIME: 15.30 – 16.45

SESSION: 8

TITLE: Energy Balancing and fault Tolerance ability of DC – AC converters

RESOURCE PERSON: Dr.A. Madhukar Rao, Assistant Professor, EED, KITSW

REPORT: In this session Dr.A. Madhukar Rao delivered the following points in his lecture.

- Importance of Multilevel inverters for PV applications.
- Importance of Fault tolerant converters for Islanded PV applications.
- Fault tolerant of single phase 5 level inverter and working state of each voltage level has discussed.
- Switching combination of energy sharing between sources for single phase five level inverter is explained.
- Discussion on Calculation of percentage of energy share by each source during each voltage level.



Photo 8: Dr. A Madhukar Rao while delivering the Lecture

DATE: 11-12-2019

TIME: 9.45- 16.45

SESSION: 9

TITLE: Programming Low Cost Hardware board using MATLAB Software

RESOURCE PERSON: Pavan Fakatkar

REPORT: In this session Pavan Fakatkar delivered the following points in his lecture.

- What is the industry expectation for every level control engineers and new graduates?
- What the industry is expecting from the students.
- The purpose of usage of integrator block in the MATLAB.
- Solving of a differential equation in the MATLAB.
- Hands on session on the demo files given by the MATLAB experts.
- Discussed basic loop design using MATLAB Simulink.
- Discussed the motor modeling using PID controller to change the parameter like speed and torque.
- Discussed how to tune the time speed signals for real time signals.
- Interconnection of Simulink program with the hardware.
- Demonstrated the real time temperature sensor using ARDUINO MKR1000 via MATLAB.



Photo 9: Sri Pavan Fakatkar while delivering the Lecture

DATE: 12-12-2019
TIME: 9.45- 11.15

SESSION: 10

TITLE: Nanotechnology Application to Electrical Engineering

RESOURCE PERSON: Dr. G. Sudheer Kumar, Associate Professor, EED, KITSW

REPORT: In this session Dr.G. Sudheer Kumar delivered the following points in his lecture.

- Basics of Nano Technology.
- Applications of Nano technology in electrical domain.
- Nano composites for radar & strain sensing applications.
- Nano composites as electrical conductors and capacitors.
- Recent advancements in Nano technology correlated to Electrical Engineering for different domains and applications.
- Nano technology with electrical engineering can be used for defense applications.



Photo 10: Dr. G. Sudheer Kumar while delivering the Lecture

DATE: 12-12-2019

TIME: 11.30-1.00

SESSION: 11

TITLE: Application of Electrical Drives in Electrical Vehicles

RESOURCE PERSON: Dr.T. Vinay Kumar, Assistant Professor, EED, NIT Warangal.

REPORT: In this session Dr.T. Vinay Kumar delivered the following points in his lecture.

- Introduction to electric vehicles and definition of electric drive.
- Basic torque equations of motor and their description.
- Differentiated between conventional and special motors and their applications.
- Advantages of Permanent Magnet Synchronous Motor with respect to Induction motor.
- Differences between electric vehicle and hybrid electric vehicle.
- Challenges and Technologies of Hybrid Electric Vehicle.



Photo 11: Dr. T. Vinay Kumar While delivering the Lecture

SESSION: 12

TITLE: Laboratory Virtual Instrumentation

RESOURCE PERSON: Dr.K.Srinivas, Associate Professor, EIE, KITSW

REPORT: In this session Dr.K.Srinivas delivered the following points in his lecture.

- With virtual instrumentation engineers use graphical programming software to complete solutions.
- Virtual instrumentation applications.
- Data logger USB 6001 interconnection with lab view software/ computer has been demonstrated.
- Generation of sinusoidal signal of 10V using input source which was logged into the data logger and the same signal logged and also recorded and presented in Labview acquiring software/portal.
- Universal data logging block diagram was demonstrated.



Photo 12: Dr. K. Srinivas, EIE Dept. during practical session

SESSION: 13

TITLE: Visit to 100kW Roof Top Solar Plant

RESOURCE PERSON: Sri G.Rajendar, Associate Professor, EED, KITSW

REPORT: In this session Sri G.Rajendar delivered the following points in his lecture.

- Fundamentals of solar PV Systems and electricity generation through solar PV systems.
- Explained how connections were made and panels are arranged in the solar roof top (on the top of Block 3).
- Power generation and grid interfacing of 100kW solar power and also the concept of net metering.
- Operation and maintenance of solar PV panels.
- Solar Panel individual ratings were shown and discussed.
- Partial shading effect on solar panels is discussed.



Photo 13: Sri G. Rajendar while Explaining roof top solar

SESSION: 14

TITLE: Study of Renewable Energy Systems Using Mi Power Software

RESOURCE PERSON: Sri Aryesh Namboodiri

REPORT: In this session Sri Aryesh Namboodiri delivered the following points in his lecture.

- Modules available in Mipower are Network modeling, load flows and transient stability and all these available modules are discussed.
- Power system protection and long term load forecasting applications.
- Modeling of wind turbine and PV cells.
- How different wind turbines can be used this software.
- Concept of relay coordination (explained distance protection).



Photo 14: Sri Aryesh Namboodiri while delivering the Lecture

DATE: 13-12-2019
TIME: 14.00- 15.15

SESSION: 15

TITLE: Distribution System

RESOURCE PERSON: Prof.V.Ramaiah, Professor, EED, KITSW

REPORT: In this session Prof.V.Ramaiah delivered the following points in his lecture.

- Essence of Smartgrid technologies and distributed generation.
- Demand Side Management studies.
- Challenges and issues in present day power system scenario.
- The purpose of Energy storage devices.



Photo 15: Prof. V. Ramaiah while delivering the Lecture

DATE: 13-12-2019

TIME: 15.30- 16.45

SESSION: 16

TITLE: Power Electronic Applications using PSIM

RESOURCE PERSON: Sri Lokesh

REPORT: In this session Sri Lokesh delivered the following points in his lecture.

- Introduction to PSIM.
- Simulation of single phase full wave rectifier using PSIM.
- Practical applications of PSIM
- Challenges and issues in present day power system scenario.



Photo 16: Sri Lokesh while delivering the Lecture



Welcome
To



Valedictory Session

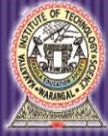
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December 14, 2019

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



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కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫

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MHRD NIRF-2019 Rank - 18

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Certificate distribution during Valedictory Function of FDP, 14th Dec. 2019



