

TEQIP-III RTU (ATU) sponsored Faculty Development Programme on
Green Energy: The Energy of Future
(GEEF-2020)

September 7 - 11, 2020

Organized by: Rajasthan Technical University, Kota and
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Summary of FDP

A five day TEQIP-III sponsored FDP on “**Green Energy: The Energy of Future**” organized by Department of Electrical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur in association with Rajasthan Technical University, Kota from 7 to 11 September, 2020.

The FDP addresses the various aspects of green/renewable energy advancements and promotes consumer centric efficient energy consumption for future. This course is aimed for teachers who are teaching various disciplines of science and engineering subjects in colleges or Universities and students as well. There are more than 850 participants successfully registered for this program from different Universities and Colleges.

Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT Jaipur, welcomed all the dignitaries and introduced the event. He spoke that this FDP would bring deep insights in area of green energy. Eco-friendly sustainable solar plant is there at the institute premises. Under pandemic COVID-19 situation, digital platform learning is effectively deliberated by faculties. Institute is among top 100 private engineering colleges countrywide. Its privilege to be a part of Swayam ranking awarded and NBA accredited institute.

After that, Prof. S. L. Surana Director (Academics), SKIT Jaipur, enlightened his vision and mission regarding clean and green electrical energy access for all. He has highlighted the key challenge as energy to be sustainable and available as well. Distributed green energy resources like sun, wind, tides, geothermal etc. have a significant potential to make electricity affordable to all. Prof. Surana spoke about the importance of green energy in the future. In his inaugural address, Prof Surana stressed upon a promising outlook for green power, sustainable development and paradigm changes from conventional consumer to green consumer/prosumer, highlighting the importance of using renewable resources to alleviate climate change impacts in current pandemic situation. Prof. Surana thrown light on policy amendments for low carbon footprint and alleviate climate changes. The ultimate objective of the UNFCCC is to stabilize greenhouse gas concentrations "at a level that would prevent dangerous anthropogenic (human induced) interference with the climate

system." Prof Surana also reminded the challenges associated with large scale penetration of wind and solar in grid such as intermittency, variability, supply demand imbalances, system inertia and voltage instability. Energy storage devices could provide ramp up and ramp down flexibility services. Hybrid energy storage to make it cost-effective like pumped hydro storage potential. Lithium ion technology of battery is not suitable in India. So, it requires exploring technologies. IC engine vehicles to be replaced by electric vehicles under green transportation theme. Medium, small scale industries and universities, hospitals, government buildings should have rooftop solar and solar parking for EVs. Reliability is to be ensured through solar and energy storage. Safe disposal of toxic material of batteries must be to have clean environment.

Mr. Munish Bindal, RTU Event Coordinator thrown light on scenario of green energy. He focused on innovative and productive technologies on earth planet through green energy and their involvement in curriculum through education policy.

Guests of Honour for this event were Prof (Dr.) S. N. Upadhyay, Ex-Director, IIT BHU, Varanasi, signified importance of student-teacher learning for capacity building and remove deficiencies of literacy. Research should be focused for good of mankind. Spoon feeding must be avoided. Only encourage for personality development. Through ancient quotations he highlighted the attributes/characteristics of education. Their deliberations create the curiosity on energy management approaches in daily lifestyles among the participants. They addressed about pivotal time for renewable energy. Technologies such as solar, wind, and biomass are at the heart of transformations taking place across the global energy system. Their increasing deployment is crucial for efforts to tackle greenhouse gas emissions, reduce air pollution, and expand energy access for all. Although the lifestyles of health and sustainability, is growing, the green market that can add value to the consumer lives at a lower cost, needs to evolve.

Entrepreneurs are taking advantage of the green revolution by finding and marketing renewable energy solutions. Since energy is used for almost everything, the recent trend towards greener, more sustainable technology is creating many opportunities for entrepreneurial-minded individuals. These concerns have created an environmentally and socially conscious mindset amongst different sets of economic actors, including consumers, investors, corporations, and governments. Companies and investors looking for profits have taken advantage of consumer interest in cleaner energy alternatives and government-incentivized green business initiatives. With all these factors driving the shift towards renewable energy, now is the time to start looking for opportunities to help solve the world's energy problems and, perhaps, make money doing it.

The inaugural ceremony was ended by a vote of thanks given by Dr. Dhanraj Chitara (Head, EE Dept., SKIT Jaipur).

Resource Persons from reputed academic institutions having expertise in the different relevant areas related to the program would deliver the lectures in this Faculty Development Program.

In the first technical session of the first day of the program (7th Sept., 2020), Dr. Ajay Chandak, Founder of PRINCE, Dhule, spoke on Research and Entrepreneurship Opportunities in Renewable Energy. This session focused on the experience sharing related to the access to energy through renewable energy base systems with the sustainability. He was giving examples of his own life experiences and his own inventions. Most important advice of his session was “**Sustainable life is a first step towards the Atmanirbhar Bharat**”.

In the next sessions of the day, Dr. S. N. Upadhyay, IIT, BHU, Varanasi , delivered talks on **Biomass as energy source** and its technical aspects and how the technological enabled sustainable environments become more effective towards consumer centric approach. In their sessions, familiarized the participants with the research/thrust areas in the green energy management. He highlighted the various types of biomass being used as fuel nowadays, the biomass which can be accessed in future, the need to utilize them in the present scenario, their advantages, their shortcomings and their scope in future for their utilization as well as expansion.

The various types of commercial and traditional biomass (renewable as well as non renewable) were highlighted with their present utilization and their future expansion potential. It's usage is gradually increasing in the developing countries due to the energy insecurity, over exploitation of resources, extinction of many fossils& oils, pollution, global warming and increasing population giving rise to an increased requirement of energy demand in the coming future. This has accentuated the need to devise and discover new means of energy production. The production of electrical energy from biomass with it's usage based on the resources and their region was shown graphically from 1980 to 2030, for the OECD as well as the non OECD countries. The energy production contribution from different types of biomass in percentage was discussed. It has been estimated that about 33% increase in energy demand will be registered in the upcoming 25 years.

India in the present scenario, is the fifth largest consumer of energy. Owing to the reasons listed above, it is being foreseen that by 2030, it will become the third largest consumer overtaking Japan and Russia. For fulfilling the requirement India will need resources to

produce that amount of energy and biomass is a promising option as our country has it in plenty which can be utilized. It is being projected that by 2050, 27% of the total energy demand (about 145 EJ) could be fulfilled by different types of biomass resources already available in our environment.

In conclusion, biomass can provide an excellent option as a fuel. Apart from creating a minimal amount of pollution, it possibly has no drawbacks and thus can be made use of, for a better tomorrow.

On successful completion of first day, Dr. Sunil Goyal (Associate Professor, Manipal University Jaipur) took the opportunity to give the knowledge about “**Economic Lighting Solution for Green Building**” on first session of second day (08th Sept. 2020). He gave real time example to explain the effect of sunlight by its geographical area using 3-D simulator.

They also addressed a few facts related to Energy conservation like

1. Load sharing
 - SCADA
 - Load curtailment
2. Energy-efficient device
 - Star rating
3. .Optimum utilization
 - System designing
 - Load scheduling
 - Energy audit
 - Energy modeling

Energy Modeling of A Building: Dr. Ajay represents the Illumination level for window orientation at new Delhi [south(9 am-1100), south-west(2 pm-1600), west(5 pm-1049)] he also elaborated the particular time illumination level was changed due to sunlight and by proper window orientation they gave the idea how to save the electrical power. So that load demand also reduces and environmental contamination is also reduced. By considering the following aspects we can reduce our load demand.

- Architectural design
- Lighting assessment
- Building stock analysis
- Refrigeration system
- Heating ventilation and air conditioning design

At last, they conclude that BEM is very important for the energy-saving aspect

The second session of the day was on the topic “**Smart Grid and Renewable Integration**” by Dr. S.N. Vijayvargiya, Director, Genus, Jaipur. He spoke about the smart grid definition, smart grid solar interface, power house and Bidirectional monitoring of power that is necessary. He spoke that smart grid will enable the power distribution system to support bidirectional flow of power. Smart meters are manufactured in genus company .These meters has bidirectional monitoring features. He also signified about the inverters, energy management system and EV (electric vehicles) PV (Photo voltaic) framework. He also has shown different types of meters like residential meters, smart grid meters, ABT meters and HT meters. Smart meters will increasingly replace conventional gas and electricity meters as national grids become more flexible, efficient and adaptable to renewable energy technologies such as wind and solar. They offer a wealth of intelligent functions including the ability to inform consumers how much energy they are using, via a display installed in their home. They can also communicate directly with energy suppliers thereby eliminating the need for staff to visit homes to read the meter. They do this by sending out a signal, rather like a mobile-phone signal, which delivers the meter reading straight to the energy supplier. It works the other way round as well, enabling the energy supplier to send information to the display in consumers’ homes. He explained about the metering solutions like AMI solutions, Smart street lightning solution,pre payment metering solution etc.He also discussed about the system architecture ,energy audit and street alerts for any abnormality of electrical parameters like V,I,Kw etc.He addressed about solar roof top system, building blocks of a smart city, generation of energy through solar cells, why grid is necessary . Investing in rooftop solutions leads to great savings, while protecting the environment. Tata Power Solar offers solar rooftop for home. Save and Earn from your idle rooftop space. Effect of smart grid on overall Network, global Perspective, smart grid pilot projects and National smart grid mission are also discussed in presentation. Smart grid initiatives –perspective, Smart vision for India. Smart Grid Vision for India is -Transform the Indian power sector into a secure, adaptive, and sustainable and digitally enabled ecosystem that provides reliable and quality energy for all with active participation of stakeholders. Smartness in feeder, smartness with FLSIR is also discussed. He also spoke about the design consideration: six domains reflect key utility function, and demand load management.

In The third session of the day, Dr. Gaurav Dwivedi, Assistant Professor, Energy Centre, MANIT Bhopal, enlighten audience on “**Application of Design Expert Technique in Renewable Energy Application**”. He told about the global goals that by 2030, ensure universal access to affordable, reliable and modern energy services. By 2030, double the global rate of improvement in energy efficiency. He also told that by 2030, increase

substantiability the share of renewable energy in the global energy mix. He addressed about India INDC Target, India's Ambitious and Renewable energy goal. According to him solar energy and wind energy generation at present is 4060 MW and 23.76 GW respectively. And it will be 100 GW and 60 GW till 2022 respectively. Nuclear energy will be promoted 5780 MW to 63 GW till 2032. Biofuel is the potential source in transportation sector. Transportation sector has dominated huge energy consumption and global warming as well. National policy on Biofuels 2018 and sources of Biofuels in India are discussed.

He also told about Top 10 Rubber Producing countries, state wise distribution of rubber. Conversion of oil to biodiesel and RSO Biodiesel Production process and design expert are also discussed. Design expert offers comparative test, screening, Optimization, characterization, robust parameter design, mixture design and combined designs. BBD variables used for acidesterification of crude RSO. He also signified Need of DOE, Key terminology and Experiment design process and Response surface methodology.

Physiochemical Properties of crude oil and Diesel are also discussed. He told about the Process of methanol separation in buchi evaporator. He covered a two step production methodology has been utilized to prepare the biodiesel from RSO due to its high percentage FFA content and fuel properties of Biodiesel from various all sources. In the last of presentation he told about the future scope.

On third day (09th Sept., 2020), first session was commenced by Dr. M.P Sharma (Assistant Engineer (Design), RRVPNL, Jaipur) on the topic "**Planning of Transmission System for Integration of 60 GW capacity solar and wind parks in Rajasthan**". Dr. Sharma started with renewable energy resource potential in the state Rajasthan, India. He mentioned that total RE potential is more than 150 GW out of which wind potential is between 9 to 10 GW and solar potential is greater than 142 GW. He added that till now, 9308.715 MW of wind and solar plants have been installed in various districts of Rajasthan, out of which installed wind capacity is 4337.755 MW and Solar installed capacity is 4970.960 MW.

Dr. Sharma explained about the locations of existing wind and solar projects in Rajasthan (As on 31-08-2020). Also, he showed us the district wise installed wind and solar power projects in Rajasthan (As on 31-08-2020). he explained about the connectivity of wind and solar power projects with RVPN network w. r. t. Load centres, the connectivity of voltage level of wind and solar power projects with RVPN network, existing state transmission system available for evacuation of wind/solar projects in Rajasthan, Details of wind generators integrated with RVPN grid network in Jaisalmer, jodhpur, Barmer, Pratapgard and Sikar districts, Details of solar generators integrated with RVPN grid network in Jodhpur and Bikaner districts.

he explained about existing grid substations in Rajasthan as on (As on 31-08-2020), installed generation capacity as 21175.90 MW, out of which 15117.79 MW (72 % of total) is through conventional and 6014.15 MW (28 % of total) is through Non-conventional energy sources. He explained about source-wise installed capacity under Rajasthan-generation sector overview. He detailed that as on 31-08-2020, out of total generation capacity, 11918.452 MW (56 % of total) from coal based, 3734.1 MW (18 % of total) from wind based, 2178.1 MW (10.29 % of total) from solar based, 1961.954 MW (9 % of total) from hydro, 824.6 MW (4 % of total) from gas based, 456.74 MW (2 % of total) from nuclear based and 101.95 MW (0.48 % of total) from bio-mass based units are there.

He explained about existing conventional power plants in Rajasthan as on 31-08-2020, anticipated renewable energy expansion programme under which he detailed that Government of India has mandated 21 percent renewable purchase obligations for all the states by 2021-22 and RERC has issued RPO targets for obligating utilities of Rajasthan up to 2023-24. He mentioned about additional intrastate transmission system requirement for meeting RPO by state DISCOMs, require addition of 6311 MW Solar/Wind and shall be commissioned by 2022-23 in phased manner, he added.

Also, he talked about planning of the state DISCOM to install solar power projects to mitigate the above mentioned targets, under construction intra-state transmission systems for integration of RE projects, newly planned intra-state transmission systems for integration of wind/solar projects, anticipated solar parks in Rajasthan (To be set up by GoI) and associated transmission system (by PGCIL), Transmission system planning criteria for integration of 40 GW solar parks, Approved transmission system for integration of 20 GB solar parks in Rajasthan, some transmission systems planned by PGCIL for integration of 20 GB solar parks, 8.6 GB capacity solar parks in Jaisalmer district and 6.93 GW capacity solar parks in jodhpur and for near load centers.

he explained about existing transmission systems in western Rajasthan, hourly average solar power generations of few plants, plan load factors of various RUVNL plants in FY 2019-20, impact of low PLFs of conventional power plants on the grid, high voltage issues in power systems due to high penetration of RE power projects, high voltage issues in Rajasthan power plants, possible technical solutions for voltage control, power management and grid stability related problems and possible technical solutions for frequency control. After that questions asked by participants and their answers by Dr. Sharma.

The second session was on the topic “**Energy Price Forecasting**” by Dr. Akash Saxena, Professor, SKIT, Jaipur. He discussed about evolution of electricity markets, electricity price

forecasting and price forecasting by time series method. He told that a forecast is a statement of future; it is a basis of planning. He also told about the forecasting Process.

1. Determine the process
2. Establish a time horizon.
3. Select a forecasting technique.
4. Gather & analyze data
5. Prepare the forecast.
6. Monitor the forecast

He told about elements of a good forecast that forecast should be reliable; the degree of accuracy should be stated. Comparative analysis of different market structures, development of Indian electricity market is also discussed. He signified that it has become an important term in competitive electricity markets because of trading of the electricity is commodity. Also said about decisions for optimal scheduling of the generators and planning maintenance. Also discussed demand forecasting V/S Price forecasting. Electricity as a commodity can't be stock piled and constrained by the system demand and generation capacity.

Forecasting approaches also discussed like artificial neural network and fuzzy logic control. Support vector based models a nonlinear transformation to draw the training o/p data to a higher dimensional space. Time series analysis and components of time series like trend, seasonal, cyclic, Irregular with graph are discussed. Time series methods, forecaster algorithm, description of time series methods, trend analysis method are also discussed. In trend analysis a general trend model is fitted with the time series data. Methodology of trend analysis like Decomposition method. Additive model, multiplicative model and results of decomposition method are also signified. He has also shown plots by time series method and comparative analysis of methods. He spoke about optimization process, flow chart of optimization process and MAPE results of SVM (support vector machine) and conclusion. He also told that elimination of electrical price spike using data pre-processing choice of intermediate algorithm based on the values of MAPE. Forecasting method can be applied for forecast the following pertaining to the renewable energy sources like wind speed forecasting, Solar irradiance forecasting wave energy forecasting etc.

The last session of the day was by Dr. Dheeraj K Khatod, Associate Professor, IIT Roorkee, on the topic “**Modeling & Simulation of Hydropower Plants**”. He said that the recent increased number of black outs in the power system has been largely due to growing competition and deregulation among the power industry. Power systems are complex nonlinear systems and often exhibit low frequency electro-mechanical oscillations due to

insufficient damping caused by severe operating conditions. This needs an advanced modeling and control techniques for effective control of power plants.

In case of hydroelectric plant the hydro turbine is a non-linear, non-stationary multivariable system whose characteristics vary significantly with the unpredictable load on it and this presents a difficulty in designing an efficient and reliable controller. A conservatively designed control fails to perform as expected. Keeping this in mind, hydro plant control is an application area with an interesting set of problems for control engineering people. Mainly some of these problems focus towards regulation of turbine with large load variation in the power system. These problems have not been adequately solved and continue to pose challenges to the control community. In this discussion the speaker have tried to broadly categorize the research work done so far on the basis of hydro plant model development and its controller design under different sections. A substantial number of relevant researches have been done on the plant modeling, design aspects of control methodologies and their performance study.

Here speaker explained extensively about how to mathematical build a block diagram and then he tried to relate it hydropower plant. A detailed explanation was given on the major components of Hydropower plants such as Reservoir / Forebay, Penstock and Turbine, Synchronous Generator, Governor and Exciter. He gave an insight of his work on “Type AC1A Exciter Modeling” and “Type ST1A Exciter Modeling” and their case studies. He explained how the line current surges occur and the behavior of line current till the fault is cleared if a 3-ph symmetrical fault occurs at the generator side.

On second last day of the FDP (10th Sept.,2020), the first session was commenced by Mr. Pankaj Kumar Verma (Deputy Director, Central Electricity Authority, Ministry of Power, Govt. of India) to brief on the topic “**Measures by Government of India to promote Renewable Energy**”. He started with the basic definition of clean and green energy. During his lecture, he cover the following points like

- Policy and regulatory framework.
- He also explained nation tariff policies.
- Nation action plan on climate changes
- National solar mission
- Off /on Grid solar photovoltaic system

He also discussed national solar mission phase II and III, At the last, they discuss small hydropower plants and a BioMass plant. In his presentation, they mostly discuss various projects commissioning in India

The next session was started by Dr. Mukesh Mathur, General Manager, REIL, Jaipur, on the topic “**Rooftop Solar Projects**”. He shared his experience on rooftop solar projects. He started with the introduction of Rajasthan Electronics & Instruments Limited like It was established in 1981. Accorded the status of Mini Ratna by govt. of India in1997. Its vision to be the leader in the rural sector for the business area of diary electronics, a significant player in renewable energy & electric mobility.

ROOFTOP SYSTEM:-

1. stand-alone system
2. grid-interactive system

Grid-connected rooftop solar system

Visualization of the rooftop solar system

1. The solar panel converts sunlight to DC
2. The inverter converts DC to AC
3. Home appliances
4. Extra electricity credited to grid

Solar panel working: On the PV panels (silicon solar cells) solar power flows it is converted to Alternating current of electricity.

Net metering: It records net energy between the export of excess generated energy and the import of DISCOM energy for a billing month. The meter can record both the import and export values.

Limitations: Capacity of rooftop SPV plants (more then 1KWp minimum and not more than 1MWp).

The rooftop system in various areas:

1. Platforms
2. Institutes
3. Buildings
4. Pathways
5. Private commercial & industrial
6. Residential

At the last they discuss Good engineering v/s bad engineering

As a concluding remark they discuss benefits of the scheme like:

1. Reduced electricity bill
2. Reduction in the pollution
3. Noiseless
4. Non-polluting source of energy

5. Feed to grid
6. Utilization of the free space of the rooftop

The last session was held by Dr. Pradeep Kumar Mishra, Professor, IIT, BHU, Varanasi, on the topic “**Green Energy Based Entrepreneurship for Pollution Mitigation**”. His major focus was on the development of human sector and discussed about the convectional paths. He mentioned various points to evaluate potential of biomass which includes, ‘Bio-gas or Bio-CNG’, ‘Syn Gas’, ‘Bio-Hydrogen’ etc.

The Outline of the topic discussed is as follows

- Population burden on human resources
- Scientific observation
- Self Exploration
- Modification of acquired needs
- Activation Theory and job enlargement
- Leadership

Biogas has emerged as a promising renewable technology to convert agricultural, animal, industrial and municipal wastes into energy. Biogas development can be integrated with strategies to improve sanitation as well as reduce indoor air pollution and greenhouse gases. Currently, the total biogas production in India is 2.07 billion m³/year. This is quite low compared to its potential, which is estimated to be in the range of 29–48 billion m³/year. Hence, this study aims to identify both technical and non-technological barriers impending biogas dissemination in India. Biogas dissemination is affected by various waste, renewable energy, and urban policies. Barriers were therefore identified individually for rural and urban biogas systems existing in India using decomposition analysis. The results show that type and importance of barriers vary strongly between biogas systems due to the difference in technology maturity, feedstock availability and quality, supply chain, awareness level and policy support. Few Slides which depicts the actual situation in India. One of the biogas plants set up by the speaker and his students.

Finally after explaining all the concerns related to Biomass the speaker spoke about some of the biogas plants set up by few of his students and their contribution as entrepreneurs to the society.

On 11th September, 2020, last day of FDP was commenced by Dr. Kailash Chand Sharma, Assistant Professor, NIT Jalandhar) on the topic “**Short term wind forecasting using statistical time series models**”.

The outline of the topic discussed is as follows

- Basic definition of wind forecasting.
- Application of wind forecasting in electric power system
- Wind forecasting Categories.
- Forecasting Models
- Performance evaluation
- Time series models, Case Studies.

The Speaker started by explaining the basic definition of forecasting and explained extensively what is wind forecasting. A wind power forecast corresponds to an estimate of the expected production of one or more wind turbines (referred to as a wind farm) in the near future. By production is often meant available power for wind farm considered (with units kW or MW depending on the wind farm nominal capacity). Forecasts can also be expressed in terms of energy, by integrating power production over each time interval. After this the speaker tried to explain the evolving restructured power system using a block diagram.

After the basic introduction of forecasting and restructured power system, the speaker gave an idea about the types of wind forecasting methods. After the types of wind forecasting the speaker gave extensive idea about

1. Prediction of meteorological variables
2. Physical approach to wind power forecasting
3. Statistical approach to wind power forecasting
4. Time Series Models
5. Uncertainty of wind power forecast

Finally the Speaker concluded the discussion by taking a case study and explaining the forecasting methods used in that case study and the results of the case study.

Valedictory session of TEQIP-III RTU (ATU) sponsored Faculty Development Programme on “Green Energy: The Energy of Future-2020” was held after the second session on 11-09-2020.

The Programme started with the welcome address by Mrs. Deepti Arela, Assistant professor, EE Department, SKIT. We had around 550 participants. All the lectures were very well appreciated by the participants and interaction with the resource persons was very good. All the resource persons and professors were very patient in clearing the doubts of the faculties, she added.

The session and thus the whole FDP programme commenced with the details of the sessions held in past 5 days by Mr. Jitendra Singh and Jinendra Rahul FDP coordinators, EE department, SKIT M & G, Jaipur.

Congratulated by Dr. Munish Bindal, From RTU TEQIP-III co-ordinator, told about grant success of this programme, more than 850 participants are there, out of which 10 were international. Although, he was not there throughout the FDP because of his presence in other events he talked about the well organization by the host institute, SKIT, Jaipur. At last, he thanked all.

The session and thus the whole FDP programme successfully ended with vote of thanks given by Mr. Abhishek Gupta, Deputy Head, EE department, SKIT M & G, Jaipur. He expressed his thanks to Prof. R. A. Gupta Ji, Hon'ble Vice-Chancellor, RTU, Kota, Dr. Dharendra Mathur Ji, RTU (ATU) TEQIP-III Coordinator, who gave us this opportunity to conduct this faculty development program. Also, he expressed his sincere obligation to Dr. S. N. Upadhyay Ji, Ex-Director, IIT BHU, who honored this event with his inspirational thoughts, showed gratitude to our eminent speakers from different organizations,

He thanked beloved Management, Principal SKIT (Dr. Ramesh Kumar Pachar Ji), Director Academics (Dr. S. L. Surana Ji), RTU event coordinator (Mr. Munish Bindal Ji), Head of Department (Dr. Dhanraj Chitara Ji), event coordinators (Mr. Jitendra Singh & Mr. Jinendra Rahul), anchors and all members of organizing team of this faculty development program, staff members, participants and our student coordinators who richly deserves the dept. and institute felicitation and he offered the same. Finally, he added, "We remain grateful to one and all who has directly or indirectly attached to this faculty development program".

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