

ONE WEEK VIRTUAL WORKSHOP ON ROLE OF INNOVATIONS IN TEACHING & RESEARCH (RITR-2K20) REPORT



Resource Persons :

1. Sri. Dipan Kumar Sahu

Assistant Innovation Director & National Coordinator - NISP, IIC & ARIIA,
MBA/PGDM in IEV Program, MHRD's Innovation Cell, AICTE

2. Dr. Shashidhar G Koolagudi

National Institute of Technology
Karnataka, Surathkal

3. Dr. Arun Ghosh

Assistant Professor
Department of Electrical Engineering
Indian Institute of Technology, Kharagpur

4. Sri M.S.N. Murthy

Research Scholar
IIT Mumbai

5. Sri Y. N. Reddy

General Manager
IT & ERP, Vizag Steel Plant

6. Sri Shrijit Nair

Human Resource Administrator & Government Relations officer
Schneider Electric, Dubai, UAE Office

Convenor : Dr. K. Sujatha, Professor, CSE

Coordinators : Mr. M.R.V.S.G. Gupta, Assistant Professor, Civil

Mrs. B.T. Archana, ECE

Ms. K. Sunita, H&BS

Dates : 20th - 26th Aug, 2020

RITR-2k20 Overview

DIET Innovation & Incubation Centre, Dadi Institute of Engineering & Technology has initiated One Week Online Workshop with eminent speakers from Academia, Industry and Government. Innovations are the means of generating new ideas, thoughts and imaginations which involve application of better solutions that meet new requirements and capture the market. The National Innovation and Start-up Policy 2019 proposed by MHRD intend to guide Higher Education Institutions to promote student driven innovations & start-ups and to engage the students and faculty in innovation and start up activities in campus. The theme of the workshop is to create ecosystem and collaboration and understanding ideas and innovations in all streams of Engineering, Management & Sciences.

Objectives:

- To create awareness on Innovation and value creation.
- To create awareness on Innovation policy, opportunities and challenges from academia, industries and Government.
- To inculcate ideas to prototype development & case studies.

Outcomes:

- Participants have acquired knowledge on innovation policies, Entrepreneurship and value creation.
- Participants were exposed to opportunities and challenges from resource person belonging to academia, industries and Government.
- This Workshop inculcated ideas for prototype development & working on case studies.

Poster and Brochure Release:

RITR-2k20 Poster & Brochure are released by honourable chairman Sri Dadi Ratnakar. He addressed with a message that Dadi Institute of Engineering & Technology will support the entire faculty to develop with webinars, workshops and FDPs. As every faculty has to stay home during lockdown, they have to utilize the online platforms to upgrade themselves.



Dadi Institute of Engineering & Technology

(Approved by A.I.C.T.E. & Permanently Affiliated to JNTUK)

A NAAC Accredited Institute

One Week Virtual Workshop on

Role of Innovations in Teaching & Research (RITR-2K20)

20-26 August, 2020

Sri Dipan Kumar Sahu
Assistant Innovation Director
&
National Coordinator - NISP
IIC & ARIIA, MBA/PGDM in
IEV Program
MHRD's Innovation Cell,
AICTE



Sri Y. N. Reddy
General Manager
IT & ERP
Vizag Steel Plant



Sri Shrijit Nair
Human Resource Administrator
& Govt. Relations Officer
Schneider Electric, Dubai
UAE Office

Dr. Arun Ghosh
Assistant Professor
Department of Electrical Engineering
Indian Institute of Technology
Kharagpur



Dr. Shashidhar G Koolagudi
Associate Professor
National Institute of Technology
Karnataka
Surathkal



Sri M.S.N. Murthy
Research Scholar
Indian Institute of Technology
Bombay

Registration Link

<https://forms.gle/NyE2LkFEJTxxDv8w9>

In Association with

Payment Link

Rs. 149 - 7702050022(RVSG Gupta)



Dr. K. Sujatha
Convener

Dr. Ch. Prabhakara Rao
Principal

Sri Dadi Ratnakar
Chairman

Dadi Institute of Engineering and Technology (DIET), Anakapalle, AP:

Dadi Institute of Engineering & Technology is the top ranked Engineering and Management College permanently affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering and Technology. It strives to promote highest standards among the students & enabling them to Build a New World. DIET is distinctive among institutions of higher learning in the society, which was founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister of Government of Andhra Pradesh. It is the first multicultural and co-educational college in Anakapalle which admits only academically promising students.

RITR-2k20:

Innovations are the means of generating new ideas, thoughts and imaginations. It involves application of best solutions that meet new requirements and capture the market. The National Innovation and Start-up Policy 2019 proposed by MHRD intended to guide Higher Educational Institutions to promote student driven innovations & start-ups by which students and faculty can engage themselves in innovation and start up activities in campus. **The theme of the workshop is to create an ecosystem that collaborates understanding, ideas and innovations in all the streams of Engineering, Management & Sciences.**

Registration Link:

<https://forms.gle/LFvAQNnMhd3q2dYq9>

CHIEF PATRON

Sri Dadi Ratnakar Chairman

PATRON

Dr. Ch. Prabhakara Rao Principal

CONVENOR

Dr. K. Sujatha Professor, CSE

ADVISORY COMMITTEE:

Dr. B.Govardhana Reddy Secretary, CSI

Sri Ashok Nath Biswal Vizag Chapter

Dr. K. S. Eswara Rao Treasurer, CSI

Dr. L. Prasanna Kumar Vice Principal

Dr. P. B. Ram Kumar HOD, CSE

Mr. N. Ramu HOD, MBA

Mr. K Jogi Naidu HOD, Civil

Mr. D.R.Ch.Noakes HOD, ECE

Mr. K. Soma Sekhar HOD, EEE

Mr. K. Soma Sekhar HOD, H&BS

ORGANIZING COMMITTEE:

Dr. J.Babu Professor, ECE

Mrs. B.T. Archana Asst. Professor, ECE

Mr. M.R.V.S.G.Guptha Asst. Professor, Civil

Mrs. T. Sujatha Asst. Professor, CSE

Mr. G. Jagadeesh Asst. Professor, EEE

Mrs. K. Suneetha Asst. Professor, H&BS

Mr. P. Srinivas Admin Officer

Mr. V. Govinda Raju PRO

Mr. V. V. M. Ramesh System Admin

One Week Virtual Workshop on

Role of Innovations in Teaching & Research (RITR-2k20)

20th-26th Aug, 2020

Organised by

DIET INNOVATION & INCUBATION CENTRE

In Association with



Dadi Institute of Engineering & Technology
(Approved by A.I.C.T.E & Permanently Affiliated to JNTUK)
A NAAC Accredited Institute
An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

Programme Schedule:

Date : 20/08/2020 to 26/08/2020

Time : 04:00 to 05:00 PM (IST)

All Working Days

Day 1 20 Aug, 2020	Speech Processing & Research Avenues Dr. Shashidhar G Koolagudi National Institute of Technology Karnataka, Surathkal
Day 2 21 Aug, 2020	Multivariable PID Control with Applications Dr. Arun Ghosh Assistant Professor Department of Electrical Engineering Indian Institute of Technology, Kharagpur
Day 3 22 Aug, 2020	Achieving Academic Entrepreneurship : Role of Entrepreneurship Education & Entrepreneurial Mentoring Sri. Dipan Kumar Sahu, Assistant Innovation Director & National Coordinator - NISP, IIC & ARIIA, MBA/PGDM in IEV Program MHRD's Innovation Cell, AICTE
Day 4 24 Aug, 2020	Application of Advanced Control Systems, AI & Big Data Analytics Sri M.S.N. Murthy Research Scholar IIT Bombay
Day 5 25 Aug, 2020	Industry Oriented IT Applications Sri Y. N. Reddy General Manager IT & ERP Vizag Steel Plant
Day 6 26 Aug, 2020	Innovations transforming the teaching and the modern world Sri Shrijit Nair Human Resource Administrator & Government Relations officer Schneider Electric, Dubai, UAE Office

Eligibility for Participation:

Academician – Engineering/Degree/PG Colleges

Industry – Public/Private Sector

Students – UG /PG

E-Certificate will be issued only to active registered participants

Objectives:

- To create awareness on Innovation and value creation.
- To create awareness on Innovation policy, opportunities and challenges from Academia, Industries and Government.
- To inculcate ideas for prototype development & case studies.

Overview of Resource Persons:

Resource Persons are from Academia, Industry, Government.

Prerequisites:

Laptop/Tab/Smart Phone with good video and audio playback capability.



or Pay to Mobile Number using PhonePe/Gpay

7702050022

ROOP VENKATA SIVA GANGADHAR GUPTA

REGISTRATION

One Week Virtual Workshop on

Role of Innovations in Teaching & Research (RITR-2k20)

20th-26th Aug, 2020

Registration Fee:

Rs. 149/- for one week workshop including e-certification

Due Date :

Registration will be closed on 18 Aug, 2020. Limited number of participants are allowed on First Come First Served Basis

Registration Process:

Step 1: Transact Payment of Rs.149/- (Through Phonepay or Google pay to 7702050022 - Roop Venkata Siva Gangadhar Gupta)

Step 2: Fill-in Registration form (by adding payment receipt/image)

<https://forms.gle/LFvAQNnMhd3q2dYq9>

Step 3: Join Whatsapp group

Address for Correspondence

Dadi Institute of Engineering & Technology,
National Highway - 16, Anakapalle,
Visakhapatnam, Andhra Pradesh,
India- 531002



Participants are from various reputed Indian institutions with designations from Assistant Professor Cadre to Professor Cadre. Some students also participated including research scholars. A few international participants have also registered and participated.

Summary:

DIET Innovation & Incubation Centre, Dadi Institute of Engineering & Technology has conducted One Week Virtual Workshop on Role of Innovations in Teaching & Research (RITR-2k20) during 20-26 July, 2020 in association with NRDC, Govt. of India and MHRDs IIC. RITR-2k20 has given overview of various aspects related to Entrepreneurship and Innovations.

RITR-2k20 distinguished speakers are from different work environments. Some are employees of MHRD Innovation Cell, Navy, Visakhapatnam Steel Plant. Others are faculty from IIT, NIT and HRA & Govt. Relations Officer from UAE.

The first day session is taken by Dr.Sasidhar G Koolagudi from NIT Surathkal who made us aware about the recent research trends in speech processing.



The poster features a dark blue background with a starry pattern. At the top left is the 'Diet' logo with a globe. The main title 'ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)' is in white. Below it, 'in association with' is written in white, followed by the logos of the Computer Society of India and another organization. The topic 'Speech Processing & Research Avenues' is in white, with the date '20 Aug, 2020' below it. A portrait of Dr. Shashidhar G Koolagudi is on the right, with his name and affiliation 'National Institute of Technology Karnataka, Surathkal' below it. At the bottom, the host institution 'Dadi Institute of Engineering & Technology' and location 'Anakapalle, Visakhapatnam, AP, India' are listed in yellow.

Diet **ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)**
in association with
 
Topic
Speech Processing & Research Avenues
20 Aug, 2020

Dr. Shashidhar G Koolagudi
National Institute of Technology
Karnataka, Surathkal
Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

Second day session is taken by Dr. Arun Ghosh from IIT kharagpur where he talked about PID controllers which is used for automatic process control applications in industry.



ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)



Dr. Arun Ghosh

Department of Electrical Engineering
IIT, Kharagpur

in association with



Topic

**Multivariable PID Control
with Applications**

21 Aug, 2020

Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

On the auspicious third day a talk on Role of entrepreneurship education and entrepreneurial mentoring is delivered by Sri Dipan Kumar Sahu, Assistant Innovation director of MHRD's innovation cell was a very interactive session. This valuable lecture made delegates think about the pedagogy and whether present one being followed is suitable for the next generation or not.



ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)



Sri. Dipan Kumar Sahu

Assistant Innovation Director &
National Coordinator - NISP, IIC & ARIIA,
MHRD's Innovation Cell, AICTE

in association with



Topic

**Achieving Academic Entrepreneurship :
Role of Entrepreneurship Education
& Entrepreneurial Mentoring**

22 Aug, 2020

Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

On fourth day Sri M.S.N. Murthy, IIT Bombay Research Scholar and employee from Naval Dockyard delivered a session on Applications of Advanced Control System, AI & Big data Analytics, that were mostly focused on real time applications of AI. He explained about the interdisciplinary exploration, real life application based teaching, importance of grooming our students to participate in activities like Make in India and other self-reliance initiatives of Government.

Diet Build New World

ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)

in association with



Topic

Application of Advanced Control Systems, AI & Big Data Analytics

24 Aug, 2020

Sri M.S.N. Murthy
Research Scholar
IIT Bombay

Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

On fifth day session Sri Y.N.Reddy, General Manager, Visakhapatnam Steel Plant has discussed about Industry oriented IT applications and Enterprise Resource Planning which helps to streamline and integrate business process.



ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)

in association with



Topic

Industry Oriented IT Applications

25 Aug, 2020



Sri Y. N. Reddy
General Manager , IT & ERP
Vizag Steel Plant

Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

On the final session Sri Shrijit Nair has presented a comprehensive talk emphasizing innovative techniques to be followed in Classroom teaching. He introduced some new ways to improve this like Gamification with teaching and learning, students taking Ownership, Virtual Reality Implementation. In his genius hour talk he has played some videos on technology advancement in UAE.

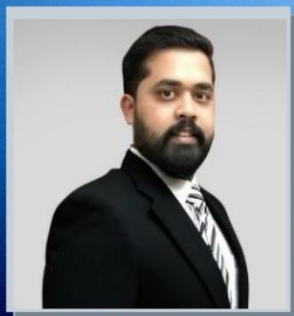


ROLE OF INNOVATIONS IN TEACHING & RESEARCH(RITR-2K20)

in association with



Topic



Sri Shrijit Nair

Human Resource Administrator & Government Relations
Officer, Schneider Electric, Dubai, UAE Office

Innovations transforming the teaching and the modern world

26 Aug, 2020

Dadi Institute of Engineering & Technology
Anakapalle, Visakhapatnam, AP, India

These eminent speakers have made virtual workshop beneficial to participants. The valedictory closed by announcing prizes for the Innovation Contest Conducted by DIET Innovation & Incubation Centre. Then the Vote of thanks in which the coordinators were immensely thankful for all the support received from Chairman, Sri Dadi Ratnakar and Principal Dr.Ch.Prabhakara Rao and delegates for their active participation. The delegates have acknowledged the meticulous planning and execution of Dr.K. Sujatha, Convenor and dedicated coordinating team of this workshop.

Overwhelming response is received from all parts of the country. The participants have registered and attended from various places in India such as Pune, Indore, Guwahati, Kalburgi, Tirupati, Hyderabad, Visakhapatnam and many more. E-certificates have been sent to participants within 15 mins after completion of Workshop. The participants expressed their gratitude for conducting sessions on time and they requested to conduct many more virtual activities in future.

RITR-2K20 Glimpses:

Dadi Institute of Engineering & Technology
(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTU, Kakinada)
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One Week Virtual Workshop on
Role of Innovations in Teaching & Research
(RITR-2K20)
20-26 August, 2020

Sri Dipan Kumar Sahu
Assistant Innovation Director
&
National Coordinator - NISP
IIC & ARIIA, MBA/PGDM in
IEV Program
MHRD's Innovation Cell,
AICTE

**Achieving Academic Entrepreneurship:
Role of Entrepreneurship Education & Entrepreneurial Mentoring**

Build New World
DIET

Activate Windows
Go to PC settings to activate Windows.

REC

APPLICATIONS

- HCI (HUMAN COMPUTER INTERFACE)
- SPEECH AS A BIOMETRIC SIGNATURE
- DICTATION ENGINE
- IVRS (INTERACTIVE VOICE RESPONSE SYSTEM)
- MOBILE APPLICATIONS AND
- MANY MORE

Shashidhar's screen

Lecture You are viewing Arun's screen View Options


Main references

1. A. Ghosh, T. R. Krishnan, P. Tejaswy, A. Mandal, J. K. Pradhan, & S. Ranasingh, "Design and implementation of a 2-DOF PID compensation for magnetic levitation systems", *ISA transactions*, vol. 53, no. 4, pp. 1216-1222, 2015.
2. A. Ghosh, T. R. Krishnan, & B. Subudhi, "Robust proportional-integral-derivative compensation of an inverted cart-pendulum system: an experimental study", *IET control theory & applications*, vol. 6, no. 8, pp. 1145-1152, 2012.
3. J. K. Pradhan and A. Ghosh, "Multi-input and multi-output proportional-integral-derivative controller design via linear quadratic regulator-linear matrix inequality approach". *IET Control Theory & Applications*, vol. 9, no. 14, pp. 2140-2145, 2015.
4. J. K. Pradhan, A. Ghosh, and C.N. Bhende, "Small-signal modeling and multivariable PI control design of VSC-HVDC transmission link", *Electric Power Systems Research*, vol. 144, pp. 115-126, 2017.

Arun

Unmute Start Video Security Participants 29 Chat Share Screen Pause/Stop Recording Reactions More End

Primary School



Focus - Entrepreneurial Behavior Development

In primary school it is not very common to teach entrepreneurship as an occupation, because pupils are still far from the labor market.


Approaches to Entrepreneurship Education and aims

Entrepreneurship as an Occupation
(Cognitive Oriented)


Entrepreneurship as an Method
(Non-Cognitive Oriented)

Aim- to training the pupils how to estimate a business idea, become self employed and start a business.

Aim- to develop creative and proactive pupils or student who can manage uncertainty



Activate Windows
Go to Settings to activate Windows.



Recording...

Maintenance Management





- Integrated online system
- Big data analytics
- AI for decision making
- High sampling rate
- RCM
- Encryption/ Decryption
- Satellite communication
- Real time

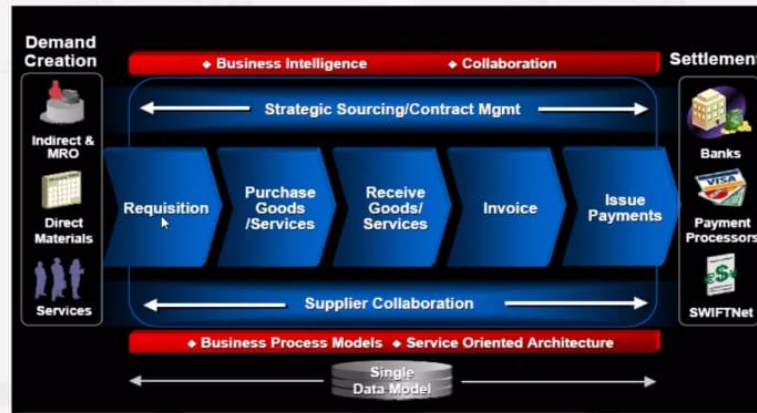


REC

ERP – PROCUREMENT FUNCTIONALITY

PROCURE

PAY



VN REDDY's screen

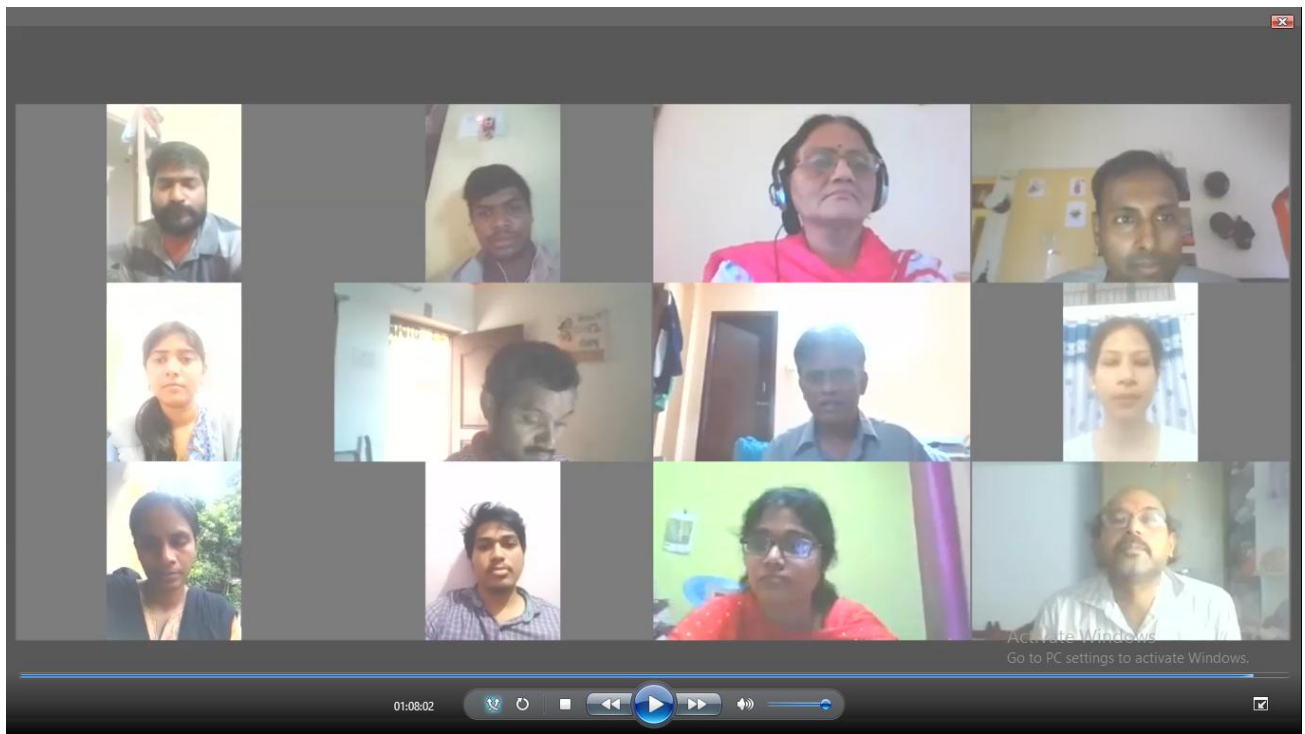
Project Ukku.Sai

57

Utilize Visualizations

BEHOLD THE AWESOME SCIENCE OF MINDMAPPING AN INSTRUCTIONALICIOUS GUIDE





Sample Certificate:

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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CSI
VIZAG
CHAPTER

Certificate of Participation

Dr.K.G.Durga Prasad

Professor

G.V.P.College for Degree and P.G.Courses (A)

has actively participated in one week virtual workshop

Role of Innovations in Teaching & Research

RITR-2k20, 20-26 August, 2020

in association with

Institution's Innovation Council & CSI Visakhapatnam Chapter

Dr. K. Sujatha
Convenor

Dr. Ch. Prabhakara Rao
Principal

Sri Dadi Ratnakar
Chairman

Testimonials:

Delegate Name	Designation	Institution	Feedback
DR MEENAKSHI CHENGATE	Assistant professor	Govt college autonomous, Kalburgi	All are good session
Dr. M. Prasanna kumar	Associate professor	SRI SRINIVASA INSTITUTE OF MANAGEMENTT, Adpatri	Very good
T.RENUKA	Asst.Prof	Dr.L.Bullayya college of engineering Visakhapatnam	Knowledge enrichable session
Dr Mohammed Abid Ali	Professor	PSCMR COLLEGE OF ENGINEERING& TECHNOLOGY, Vijayawada	GOOD
A. Bhuvanewari	Associate Professor	SVCET (A) CHITTOOR	Very informative session
Rongali appalaraju	student	Dadi Institute of engineering and technology, Visakhapatnam	Good session ... To make improve our ideas.
SUKARNA DEY MONDAL	Assistant Professor	Dr.B.C.Roy Engineering College, Durgapur, West Bengal,	It was wonderful experience.
RAJKUMAR JOYDEV BORAH	Assistant Professor	Girijananda Chowdhury of Institute of Management & Technology, Guwahati	Well structured and helpful
Madhuri mehtani	Assistant Professor	Institute of Business Management & ResearchIndore	Well structured
Dr.K.G.Durga Prasad	Professor of Mechanical Engineering	Gayatri Vidya Parishad College for Degree and P.G.Courses (A)Visakhapatnam	All sessions are informative
Shalini Singh	Assistant Professor	IPS Academy,Indore	I like the session. It gives abundance of knowledge.
Dr.M.S.VASU	Associate Professor and HoD	Sree Rama Engineering College Tirupati	All the session were so informative and very useful. All the presenters put their efforts effectively and efficiently and they were presented excellently and the sessions were quite interesting. Thank you very much to the all the presenters and Dr.Sujatha for organizing with her team wonderfully.
ARCHANA B T	Assistant Professor	Dadi Institute of Engineering and Technology Visakhapatnam	Good session which covered all areas