



POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

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REPORT

ON

TEQIP-III RTU (ATU) SPONSORED

FACULTY DEVELOPMENT PROGRAMME

ON

**“SECURE CLOUD COMPUTING AND IT’S REAL LIFE
APPLICATIONS”**

DEPARTMENT OF COMPUTER ENGINEERING

Submitted to:

**Dr. Dinesh Goyal
Director,
PIET**

Submitted by:

**Mr. Sandeep Tuli
Assistant Professor,
CE, PIET**

Overview

TEQIP-III RTU(ATU) Sponsored 3-days Faculty Development Program on “**Secure Cloud Computing and Its Real Life Applications**” has been conducted by the Department of Computer Engineering, Poornima Institute of Engineering & Technology Jaipur from September 6-8, 2019.

The Project, Third phase of Technical Education Quality Improvement program (referred to as TEQIP-III) is fully integrated with the twelfth five-year plan objectives for Technical Education. As a key Component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category State and Support to Strengthen few affiliated technical universities to improve their policy, academic and management practices.

Cloud computing is a set of resources and services offered through the Internet. Cloud services are delivered from data centers located throughout the world. Cloud computing facilitates its consumers by providing virtual resources via the internet. General example of cloud services is Google apps, provided by Google and Microsoft SharePoint. The rapid growth in the field of “cloud computing” also increases severe security concerns. Security has remained a constant issue for Open Systems and the internet, when we are talking about security clouds really suffers. Lack of security is the only hurdle in wide adoption of cloud computing. Cloud computing is surrounded by many security issues like securing data, and examining the utilization of the cloud by the cloud computing vendors. The wide acceptance www has raised security risks along with the uncountable benefits, so is the case with cloud computing.

The Faculty Development Program which was held from 06 to 08 September, 2019 was a big success and really proved to be very beneficial and informative for everyone. Total **12 sessions** including **Hands on** Sessions on Salesforce and IBM Cloud have been conducted during 3-days by **11 experts** from eminent institutions and Industries of India in this FDP. Total **53 participants** including Research Scholars have participated and benefitted through this Faculty development Program.

Objective:

Followings are the objectives of the Faculty Development Program:

- To form a bridge between the industry and academic institutions to update their knowledge.
- To understand the need of Cloud Computing and its applications in real life and in the research community and software industry in India.

- To understand the security challenges in the usage of Cloud computing.
- To train participants how to design and program the secure cloud infrastructure for real life applications.
- To build industry capable talent, start-up community and entrepreneurial ecosystem for Cloud based resources.
- To energy research mind-set and reduce costs in research and development by providing neutral and interoperable, multi-technology stack laboratory facilities.

Outlines of the workshop:

DAY #1: September 06, 2019

It started with the lighting of lamps in front of Maa Saraswati by all eminent Dignitaries. Dr. Deepak Bhatia, RTU Coordinator of FDP has delivered a welcome address. After that Dr. Dinesh Goyal PIET Coordinator of FDP gives the brief introduction of the FDP. Guest of honor Ar. Rahul Singhi, Director, Poornima Group shared his view about the FDP followed by Words of Wisdom By Chief Guest Mr. M.K.M. Shah, Director Admin & Finance, Poornima Group. Inaugural ceremony ends with the Votes of Thanks by Mr. Deepak Moud, HOD Computer Engineering Department, PIET.

Sessions of Faculty Development have started after High Tea.

SESSION – 1

- Introduction of Cloud Computing & Its Applications by Dr. Poonam Gera, Assistant Professor, LNMIIT Jaipur.

SESSION -2

- Virtualization, Cloud Computing & Containerization by Dr. Roheet Bhatnagar, Professor Manipal University Jaipur.

SESSION -3

- Computer, Storage, and Network over AWS by Mr. Amit singh Senior cloud Administrator WIPRO Jaipur and Mr. Vipin khandelwal Consultant WIPRO Jaipur.

SESSION -4

- Data Center Networks & Load Balancing in Cloud Computing by Mr. Sourabh Purohit, Ad Hoc Networks India Private Jaipur

DAY #2: September 07, 2019

SESSION –1

- Cloud Service Providers (AWS, AZURE) & Mobile Cloud Computing by Dr. Manoj Kumar Associate Professor, Department of Computer Science & Engineering, DTU Delhi.

SESSION -2

- Security Issues / Challenges in Cloud Hypervisor and Docker by Dr. Pilli Emmanuel Shubhakar Associate Professor, MNIT Jaipur

SESSION -3

- **Hands-on Session** on RDS, CloudFront, Lambda architecture over AWS including practical implementation by Mr. Amit singh Senior cloud Administrator WIPRO Jaipur and Mr. Vipin khandelwal Consultant WIPRO Jaipur.

SESSION -4

- Containers & Devops by Dr. Pooja Jain, Associate Professor, IIIT Nagpur.

DAY #3: September 08, 2019

SESSION –1

- Security in Cloud and its Encryption Algorithms, by Dr. Poonam Gera, Assistant Professor, LNMIIT Jaipur.

SESSION -2

- **Hands-on Session on** Salesforce a Cloud Service platform including practical implementation by Mr. Arpit Vashishtha, Senior Salesforce Developer HEAR.com Gurgaon and Ms. Divya Dattatray, Senior Associate Nagarro Pvt. Ltd. Jaipur.

SESSION -3

- **Hands-on Session on** Security, Identity Management & Router S3 over AWS by Mr. Amit singh Senior cloud Administrator WIPRO Jaipur and Mr. Vipin khandelwal Consultant WIPRO Jaipur.

SESSION -4

- **Hands-on Session** on IBM Cloud With Small Application Dr. Pooja Jain, Associate Professor, IIIT Nagpur and Mr. Sandeep Tuli Assistant Professor, PIET Jaipur.

Valedictory Ceremony:

On successful completion of the Faculty Development Program all the participants have been awarded with the certificates. Program ends with the Vote of thanks to the organizers and all participants by Mr. Deepak Moud, HOD CE, PIET.

Committees:

Chief Patron	Prof. R.A. Gupta, Honorable Vice-chancellor, RTU
Patron	Dr. S. M. Seth Chairman (Emeritus) Chairman, Poornima Group Ar. Shashikant Singhi, Poornima Group (Former Director, NIH, Roorkee)
Co-Patron	Mr. M. K.M. Shah Director (Admin & finance) Poornima Group Director, Poornima Group Ar. Rahul Singhi, Director Poornima Group
Coordinator TEQIP-III RTU	Prof. Dharendra Mathur, RTU Kota.
RTU Coordinator	Dr. Deepak Bhatia, Assistant Professor, Dept. of Electronics & Communication Engineering, RTU, Kota
PIET Coordinator	Dr. Dinesh Goyal, Professor, Computer Engineering, Poornima Institute of Engineering and Technology , Jaipur
PIET Co Coordinator	Mr. Sandeep Tuli, Assistant Professor , Computer Engineering, PIET Jaipur Ms. Swati Srivastava, Assistant Professor , Computer Engineering, PIET Jaipur
RTU (ATU) TEQIP-III Committee	Prof. D.K. Sambariya (Nodal Officer Procurement) Dr. Harish Sharma (Nodal Officer Academic) Dr. S.D. Purohit (Nodal Officer Finance)
RTU (ATU) Academic Committee	Dr. Irum Alvi (Conference) Mr. Santosh Sharma (Expert Lecture) Mr. Anshul Bansal (GATE & Induction) Mr.Dinesh Kumar (Workshop)

Convener (PIET) Mr. Deepak Moud, HOD, Computer Engineering, PIET

INAUGURAL CEREMONY
(SEPTEMBER 6, 2019)

Registration time for participants : 8:15 AM to 9:00 AM

Venue: SIROHI HALL, Basement, Administrative Block, PIET Campus, Jaipur

Time	Activity	Resource Person
09:00 AM – 09:05 AM	Arrival of Dignitaries, Guest, participants at Venue	Anchors
09:05 AM to 09:05 AM	Lighting of Lamp: All Dignitaries	All Eminent Dignitaries
09:05 AM – 09:10 AM	Felicitation Ceremony : Dignitaries	
09:10 AM – 09:15 AM	Brief introduction about the FDP	Anchors
09:15 AM – 09:20 AM	Welcome Address by Dr. Deepak Bhatia, RTU, Kota	Dr. Deepak Bhatia
09:20 AM – 09:25 AM	Address By Dr. Dinesh Goyal, Director, PIET, Jaipur	Dr. Dinesh Goyal
09:25 AM – 09:30 AM	Address By Ar. Rahul Singhi, Director, Poornima Group	Ar. Rahul Singhi
09:30 AM – 09:35 AM	Words of Wisdom By Chief Guest	Mr. M.K.M. Shah
09:35 AM – 09:40 AM	Vote of Thanks	Mr. Deepak Moud , HOD CSE

Day Wise Schedule:

Day	Session	Time	Topic	Expert	Affiliation
DAY - 1 Friday September 06, 2019					
-	0	9.00 AM-9.35 AM	Inauguration	-	-
High Tea					
1	1	9:50 AM- 10.50 AM	Introduction of Cloud Computing & Its Application	Dr. Poonam Gera	LNMIIT

1	2	10.50 AM - 12.15 PM	Virtualization, Cloud Computing & Containerization	Dr. Roheet Bhatnagar	Manipal University
Lunch					
1	3	12.45 PM- 2.15 PM	Computer, Storage, and Network over AWS	Mr. Amit Singh	Wipro
Tea					
1	4	2.30 PM - 4.00 PM	Data Center Networks & Load Balancing in Cloud Computing	Mr. Sourabh Purohit	Ad Hoc Networks India Private
DAY - 2 Saturday September 07, 2019					
2	5	9.00 AM- 10.30 AM	Cloud Service Providers (AWS, AZURE) & Mobile Cloud Computing	Dr. Manoj Kumar	DTU
High Tea					
2	6	10.45 AM - 12.15 PM	Security Issues / Challenges in Cloud Hypervisor and Docker	Dr. Pilli Emmanuel Shubhakar	MNIT
Lunch					
2	7	12.45 PM- 2.15 PM	RDS, CloudFront, Lambda architecture over AWS including practical implementation	Mr. Amit Singh Mr. Vipin	Wipro
Tea					
2	6	2.30 PM - 4.00 PM	Containers & Devops	Dr. Pooja Jain	IIIT, Nagpur
DAY - 3 Sunday September 08, 2019					
3	9	9.00 AM- 10.30 AM	Security in Cloud and its Encryption Algorithms	Dr. Poonam Gera	LNMIIT
High Tea					
3	10	10.45 AM - 12.15 PM	Salesforce a Cloud Service platform including practical implementation	Mr. Arpit/ Ms. Divya Vashishtha	HEAR.COM/ Nagarro Technologies
Lunch					
3	11	12.45 PM- 2.15 PM	Security, Identity Management & Router S3 over AWS	Mr. Amit Singh / Mr. Vipin	Wipro
Tea					
3	12	2.30 PM - 3.30 PM	Hanson IBM Cloud With Small	Dr. Pooja Jain	IIIT, Nagpur

			Application		
-	0	3.30 PM -4.00 PM	Valedictory	-	-





