



GUJARAT TECHNOLOGICAL UNIVERSITY
(Established under Gujarat Act No. 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી
(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦૬૨૨ા સ્થાપિત ૦૦૭૨/)

Faculty Development Program on Cloud Computing

Gujarat Technological University announces “A FDP on Cloud Computing” on 7th and 8th February, 2013 by Dr. Sanjay Chaudhary, Dr. Zakir Laliwala. The FDP aims to impart knowledge on Cloud computing and Amazon Web Services (AWS) etc.

[About the FDP](#)

[Targeted Group for the FDP: → Faculties of GTU Affiliated colleges offering MCA Program \(Only for MCA\)](#)

Cloud computing is a phrase used to describe a variety of **computing** concepts that involve a large number of computers connected through a real-time communication network such as the Internet. In science, cloud computing is a synonym for distributed computing over a network, and means the ability to run a program or application on many connected computers at the same time. The objective of this workshop is to make faculty members / scholars aware of Cloud Computing concepts and AWS Flow Frameworks for JAVA. The workshop will be helpful to nourish their teaching & research work also.

Following topics will be covered in the FDP:

(Day-1) 7th Feb, 2014	
Schedule and Time	
Registration, Tea and Breakfast	10:00am- 10:30 am
Inaugural Function and Key-note Address	10:30am - 11:00 am
Day-1 Instructor - Dr. Sanjay Chaudhary	
Module-1	
<ul style="list-style-type: none">• Introduction of Cloud Computing, Cloud Computing Reference Model• Distributed Systems, Introduction of Virtualization, Characteristic of Virtualized Environment• Execution Virtualization (Machine Reference Model, Hardware level Virtualization, Hypervisor)	11:00 am - 01:00 pm
Lunch Break	01:00 pm – 02:00 pm
Module	
<ul style="list-style-type: none">• Hypervisor, Hardware Virtualization Techniques, Operating System level Virtualization• Programming Language Level Virtualization, Application Level Virtualization and Other types of Virtualization• SOA	02:00 pm – 04:00 pm
Tea Break	04:00 pm – 04:30 pm

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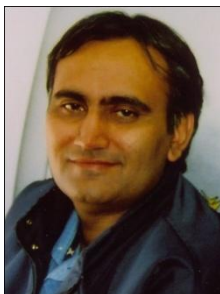
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Module-3 <ul style="list-style-type: none">• Cloud Computing Architecture• Cloud Management• Challenges of Cloud Computing	04:30 pm – 05:30 pm
(Day-2) 8th Feb, 2014 (Instructor - Dr. Zakir Laliwala)	
Demo of Installation of AWS SDK for Java, Eclipse – updates requirement for the same and update installation process) Introduction to the AWS Flow Framework for Java Implementing Workflow Applications with the AWS Flow Framework Workflow and Activity Contracts Workflow and Activity Type Registration	10:30 am – 12:30 pm
Lunch Break	12:30 pm – 01:30 pm
Activity and Workflow Client Workflow Implementation, Activity Implementation Running Programs Written with the AWS Flow Framework for Java Execution Context, Child Workflow Executions Continuous Workflows	01:30 pm – 03:30 pm
Tea Break	03:30 pm – 03:45 pm
Data Converters Passing Data to Asynchronous Methods Testability and Dependency Injection	03:45 pm – 04:45 pm
Error Handling Daemon Tasks AWS Flow Framework for Java Replay Behavior	04:45 pm – 05:45 pm

Contact Email id – amitdkothari@gmail.com

Brief Profile of Speakers

Dr. Sanjay Chaudhary



Dr. Sanjay Chaudhary is working as a Professor at IICT, Ahmedabad University since July 2, 2013. Earlier, he worked as an Associate Professor (July 14, 2001 to April 30, 2008) and as a Professor (May 1, 2008 to July 1, 2013) at Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India. He also worked as Dean (Academic Programs) during May 2, 2011 to June 30, 2013 at DA-IICT. His research areas are Distributed Computing, Cloud Computing, and ICT Applications in Agriculture and Rural Development. He has authored four books and a number of book chapters. He has published more than sixty research papers in international

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conferences, workshops and journals. He is an active member of program committees of leading International conferences and workshops as well as review committees of leading journals. He has received research grants from leading organizations including IBM, Microsoft and Department of Science and Technology, Govt. of India.

Three PhD candidates have completed PhD under his supervision and two PhD students are currently working under his guidance. More than twenty five students have completed M.Tech theses under his supervision. He holds a doctorate degree in computer science from Gujarat Vidyapeeth. Prior to joining DA-IICT, he worked at Department of Computer Science, Gujarat University. He has worked on various large-scale software development projects for corporate sector, co-operative sector, and government organizations. He is actively involved in various consultancy and enterprise application development projects. He is a senior member of IEEE and Computer Society of India. He is also a patron, Computer Society of India, Ahmedabad Chapter. Gujarat Sahitya Academy has awarded second second prize to his book on ગિરનાર ('Girnar') under 'Essays and Travelogue' category for the year 2009. He loves literature, music, travel and wild life.

Dr. Zakir Laliwala



Dr Zakir has completed his PhD from DAIICT, He has published many research paper in reputed journals. 14+ years of experience in SOA, BPM, ESB, Cloud Computing, Portal, ECM, Semantic Web, Grid computing, Software Development, Project Management, Research& Development, Open Source and Teaching.

- Adjunct Faculty at Dhirubhai Ambani Institute of Information & Communication Technology, CEPT University.
- Worked with CIGNEX, Ahmedabad, India as SOA Practice Lead, Principal Consultant.
- Worked with IBM, Software Lab, and Bangalore, India as Web Services Architect.
- Domain expertise includes Service-oriented Computing, Portal and ECM.

Comprehensive understanding of Life ray, Alfresco, Mule ESB, Intalio, Bonita Soft, Activiti, JBoss Middleware, jBPM, Drool, IBM Web sphere product stack, Oracle SOA, Amazon Web Services, Java, J2EE, JavaScript, AJAX, XML, Web Services, Struts, Spring, Hibernate, JQuery, PHP, Drupal, Magento, Moodle, Clustering, Load balancing, Performance tuning, SDLC, Agile development, scrum, continuous integration, Auto deployment & Testing, Jenkins, MapReduce, Hadoop, HBase, BigData, Lucene, Solr, Semantic Web, Grid computing.

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Anastute planner and leader with exemplary communication, relationship management, analytical and organizational skills. Experience of working with cross-cultural teams under multi-national environments.

Important Instructions for Participants:

- The certificate of participation will be issued only after successful completion of the workshop.
- Participant may bring their personal laptops.
- Once registered, it is not possible to cancel the registration. However in case of any emergency participant needs to inform about the vacant seat immediately via e-mail to below mentioned contact persons. So that others can benefit from the workshop.

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