



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, MSc, Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Sub Committee - Specialization for Curriculum Development

Course Name : Cloud Applications for Business Processes

Course Code : T3674

Faculty : Computer Studies

Programme Type : PG

Course Credit : 4

Course Level : 4

Sub-Committee (Specialization) : IT Infrastructure Management

Batch : 2021

Learning Objectives :

To understand the basics of cloud computing with respect to business process

To identify the challenges of traditional business process.

To understand various applications of business process

To evaluate the impacts of cloud based business applications

To evaluate and analyze the evolution of cloud business process using case studies

Books Recommended :	Book	Author	Publisher
	Business Process Management: Profiting from Process	Burton, R	Sams, Indianapolis
	Business Process Management: The Third Wave	Smith, H and Fingar	Kiffer Press, Tampa
	Cloud Computing, A Practical Approach	1. Toby Velte, Anthony Velte, Robert Elsenpeter	McGraw-Hill Osborne Media
	High Availability and Disaster Recovery	Klaus Schmidt	Springer
	Storage Management in Data Centers	Volker Herminghaus, Albrecht Scriba	Springer

Course Outline :	Sr. No.	Topic	Hours
	1	Cloud Computing definition, private, and public and hybrid cloud. Cloud types; IaaS, PaaS, SaaS. Benefits and challenges of cloud computing, public vs private clouds, role of virtualization in enabling the cloud; Business Agility: Benefits and challenges	10
	2	Reliability, availability and security of services deployed from the cloud. Performance and scalability of services, tools and technologies used to manage cloud services deployment; Cloud Economics: Cloud Computing infrastructures available for implementi	10
	3	Introduction to Business Process Management: Definition of business process management; Process and workflow life cycle; Transformation of a functional enterprise to a process-centric enterprise; Business value and risk of process automation. Cloud Applic	10

4	Business Process Management Solution Development: Business process management solution architectures; Business process analysis; BPM Process Development; BPM reporting and monitoring. BPM and application integration; BPM and Robotic Process Automation; C	10
5	Technology for Business Process Management: Process Modelling Standards - Business Process Modeling Notation (BPMN); Process repository and Business rules systems. Importance and organizations for better business process modelling. Business Process Manage	10
6	Designing secure solutions; the considerations and implementations involved. Securing storage in virtualized and cloud environments for business process. Monitoring and management; security auditing and SIEM. Cases Studies in Cloud Applications for Busine	10

Pre Requisites :

Basics of Cloud Computing and Business Process

Evaluation :

Class test
case studies
Assignment
Quiz
Project

Pedagogy :

Lecture & Discussion

Case analysis

Article analysis

Quizzes

Project presentation

Expert :

Dr. Pravin Metkewar, Dy. Director and Professor, SICSR