SARDAR PATEL UNIVERSITY Programme: MCA Semester: V Syllabus with effect from: June 2015

Paper Code: PS05EMCA02	r
Title Of Paper: Advanced Java Programming] ·

Total Credit: 4

Unit	Description in detail	Weighting (%)
1	Java Servlets and Java Sever Pages(JSP) - I	
	Introduction to Java servlets, The servlet life cycle	
	Using generic servlets and HTTP servlets, Introduction to Java Server Pages	
	JSP Architecture and life cycle, Developing simple JSP pages	
	Introduction to security in servlets/JSP environment, Case studies	
2	Java Sever Pages(JSP) - II	
	JSP directives, JSP scripting elements	
	JSP action elements, JSP implicit objects	
	Introduction to internationalization, Case studies	
3	The Struts Framework	
	Introduction to the struts framework and the MVC architecture, Struts actions,	
	interceptors, Struts tag libraries	
	Struts validators, Struts configuration, Case studies	
4	Hibernate	
	Understanding object relational persistence, Hibernate mapping	
	Managing entity identity, Mapping class inheritance	
	Integrating Hibernate with Struts, Case studies	
5	Enterprise Java Beans (EJB)	
	Introduction to Java EE architecture, EJB Overview	
	Entity Beans, Session Beans, Message Driven Beans, Integrating EJB and	
	Hibernate, Case studies	
6	Java EE Design Patterns	
	Introduction to design patterns, Using design patterns in Java EE	
	Generic patterns, Presentation tier patterns	
	Business tier patterns, Persistence patterns, Case studies	

Basic Text & Reference Books

- Bayross Ivan, Shah Sharanam, Bayross Cynthia and Shah Vaishali: Java Server Programming, 2nd Edition, Shroff Publishers and Distributors Pvt. Ltd., 2008
- ▶ Brown, Chad and Stanlick : Struts 2 in Action, Dreamtech Press, 2011
- > Bauer Chritian and King Gavin : Java Persistence with Hibernate, Dreamtech Press, 2010
- Panda, Rahman and Lane : EJB 3 in Action, Dreamtech Press, 2010
- Bond, Law, Longshaw, Haywood and Roxburgh : Teach yourself J2EE, 2nd Edition, Pearson Education, 2007
- Shah Sharanam and Shah Vaishali : Struts 2 for beginners, 2nd Edition, Shroff Publishers and Distributors Pvt. Ltd., 2009
- ➤ Koegh Jim : The Complete Reference J2EE, Tata McGraw Hill, 2006

