

MCE 508: **WEB ENGINEERING** (3-0-0)

Module-I (12 hours)

Web-based Systems, Web Engineering, A Web Engineering Process, Communication, Planning.

Module-II (12 hours)

Modeling Activity, Analysis Modeling For Web Applications, Web Application Design, Interaction Design, and Information Design.

Module-III (12 hours)

Functional Design, Construction and Deployment, Design Patterns, Technologies and Tools, Web Applications Testing, Change and Content Management, Future Directions.

Text Books:

1. Roger S **Pressman**, David **Lowe**, "Web Engineering: A Practitioner's Approach", 1st Edition, 2008, McGraw Hill Education (India), New Delhi.
2. Emilia **Mendes**, Nile **Mosley**, "Web Engineering", 2006, Springer India Pvt. Ltd. New Delhi.

Reference Books:

1. Gustavo **Rossi**, Oscar **Pastor**, Daniel **Schwabe** and Luis **Olsina**, "Web Engineering: Modeling and Implementing Web Applications", 2007, Springer India Pvt. Ltd. New Delhi. ISBN: 978-1-84628-922-4.
2. Woojong **Suh**, "Web Engineering: Principles and Techniques", IGI Global, 2006, ISBN-13: 978-1591404330
3. Gerti **Kappel**, Birgit Prýýll, Siegfried Reich, Werner Retschitzegger, "Web Engineering: The Discipline of Systematic Development of Web Applications", 2007, John Wiley & Sons Inc. / Wiley India Pvt. Ltd., New Delhi. ISBN-13: 978-0470015544
4. Daniel M. **Brandon**, "Software Engineering for Modern Web Applications: Methodologies and Technologies", IGI Global, 2009, ISBN-13: 978-1599044927.