



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road,Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise TeachingPlan for Session : Winter 2017

Course : Advanced Database Management System

Faculty : Mr. Aparitosh U. Gahankari

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to ADBMS	12/06/2017	MCAL305	A
1	2	The Organization and Its Information System, Phase-I Defination of Problem	14/06/2017	MCAL305	A
1	3	Phase- II Analysis of Existing System and Procedures,phase III (Database Design)	15/06/2017	MCAL305	A
1	4	Phase-IV Preliminary Design,Phase -IV Computing System,Phase -V Final Design, Phase -VI Implementation and Testing	16/06/2017	MCAL305	A
1	1	Placing File Records on Disk	19/06/2017	MCAL305	A
1	6	New Storage System	21/06/2017	MCAL305	A
1	7	Phase-VIII Operation and Tuning,Database Storage:Introduction, Secondary Storage Devices, Buffering of Blocks	22/06/2017	MCAL305	A
1	8	Hashing Techniques, Index Structure	23/06/2017	MCAL305	A
1	9	Transaction and System Concepts	28/06/2017	MCAL305	A
1	10	Introduction to Transaction Processing, Transaction and System Concepts	29/06/2017	MCAL305	A
2	11	Desirable Properties of Transactions	30/06/2017	MCAL305	A
1	2	Locking scheme	03/07/2017	MCAL305	A
2	12	Locking scheme:Two Phase locking,Granularity of Locking	03/07/2017	MCAL305	A
2	13	Transaction Processing	05/07/2017	MCAL305	A
2	14	Transaction Processing	06/07/2017	MCAL305	A
2	15	Intoduction to Concurrency management,Concurrency Control	07/07/2017	MCAL305	A
2	3	states of transctions	10/07/2017	MCAL305	A
2	16	States of Trasaction	10/07/2017	MCAL305	A
2	17	Hierarchy of locks and Intention Mode locking	12/07/2017	MCAL305	A



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Faculty : Mr. Aparitosh U. Gahankari

Unit	Topic Code	Topic Covered	Date	Course	Section
2	18	Hierarchy of locks and Intention Mode locking	13/07/2017	MCAL305	A
2	19	Tree locking Protocol, Timestamp Based Order	14/07/2017	MCAL305	A
2	4	Multi version techniques	17/07/2017	MCAL305	A
2	20	Timestamp based Order, Optimistic Scheduling, Multi version Techniques	17/07/2017	MCAL305	A
2	21	wait - die & wound - wait scheme	19/07/2017	MCAL305	A
2	22	wait - die & wound - wait scheme	20/07/2017	MCAL305	A
2	23	Various locking schemes	21/07/2017	MCAL305	A
3	5	Security & integrity threats	24/07/2017	MCAL305	A
2	24	Introduction, Security and Integrity Threats	24/07/2017	MCAL305	A
3	25	security threats	26/07/2017	MCAL305	A
3	26	security threats	27/07/2017	MCAL305	A
3	27	Security Policies, Identification and Authentication	28/07/2017	MCAL305	A
3	6	policies of database security	31/07/2017	MCAL305	A
3	28	policies of database security	31/07/2017	MCAL305	A
2	51	Video lecture on transacations	02/08/2017	MCAL305	A
3	29	Authetication & authorization	09/08/2017	MCAL305	A
3	30	Audit trail , Query optimization	10/08/2017	MCAL305	A
3	31	query optimization	11/08/2017	MCAL305	A
4	7	cryptography & encryption	14/08/2017	MCAL305	A
3	32	Cryptogarpny and Encryption	14/08/2017	MCAL305	A
3	33	Cryptogarpny and Encryption	16/08/2017	MCAL305	A
3	34	Domain Integrity Rule	17/08/2017	MCAL305	A



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Course : Advanced Database Management System

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Unit	Topic Code	Topic Covered	Date	Course	Section
3	35	General Strategy for query processing	18/08/2017	MCAL305	A
4	8	query improvement	21/08/2017	MCAL305	A
4	36	Query improvement	21/08/2017	MCAL305	A
4	37	Query improvement	23/08/2017	MCAL305	A
4	38	A typical Query processor	24/08/2017	MCAL305	A
5	9	query processor	28/08/2017	MCAL305	A
3	28	policies of database security	28/08/2017	MCAL305	A
4	39	Query Representation	30/08/2017	MCAL305	A
4	40	Transaction Recovery	31/08/2017	MCAL305	A
5	10	Transaction Recovery	04/09/2017	MCAL305	A
4	41	Transaction Recovery	04/09/2017	MCAL305	A
4	42	Types of Failures, Types of Error	06/09/2017	MCAL305	A
4	43	database recovery	11/09/2017	MCAL305	A
5	44	video lecture on database recovery	13/09/2017	MCAL305	A
5	45	Recovery in Centralized DBMS	14/09/2017	MCAL305	A
5	46	Reflecting Updates to the Database and Recovery, Buffer Management	18/09/2017	MCAL305	A
5	47	Parallel Database: Introduction, I/O Parallelism	20/09/2017	MCAL305	A
5	48	Transaction Processing	21/09/2017	MCAL305	A
5	49	Video lecture on parallel database	22/09/2017	MCAL305	A
5	50	Video lecture on parallel database	25/09/2017	MCAL305	A
3	30	Audit trail , Query optimization	27/09/2017	MCAL305	A
5	52	video lecture on advance databases	28/09/2017	MCAL305	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Cloud Computing Architectures

Faculty : S K Pillai

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Virtualization Concepts	12/06/2017	MCAL411	A
1	2	Cloud Computing Fundamental: Overview of Computing Paradigm	13/06/2017	MCAL411	A
1	3	Evolution of cloud computing	15/06/2017	MCAL411	A
1	4	Defining cloud computing, Components of a computing cloud	16/06/2017	MCAL411	A
1	5	Essential Characteristics of Cloud Computing	19/06/2017	MCAL411	A
1	6	Cloud Taxonomy	20/06/2017	MCAL411	A
2	7	Cloud architectural principles	22/06/2017	MCAL411	A
2	8	Role of Networks in Cloud computing, Role of Web services	23/06/2017	MCAL411	A
2	9	Benefits and challenges to Cloud architecture	27/06/2017	MCAL411	A
2	10	Cloud Service Models, cloud computing vendors	29/06/2017	MCAL411	A
2	11	Cloud Services Management	03/07/2017	MCAL411	A
2	12	Performance and scalability of services	04/07/2017	MCAL411	A
2	13	tools and technologies used to manage cloud services deployment	06/07/2017	MCAL411	A
2	14	TAE-I-Technical report on requirement current scenario	07/07/2017	MCAL411	A
3	15	Software as a Service(SaaS): Introduction to SaaS	10/07/2017	MCAL411	A
3	16	Inspecting SaaS technologies	11/07/2017	MCAL411	A
3	17	Elastic storage devices, Data storage in cloud computing	13/07/2017	MCAL411	A
3	18	Platform as a Service(PaaS): Introduction to PaaS	14/07/2017	MCAL411	A
3	19	Service Oriented Architecture (SOA)	17/07/2017	MCAL411	A
3	20	Cloud Platform and Management, Hardware-as-a-service: HaaS	20/07/2017	MCAL411	A
3	21	Role of business analyst, Technical architecture considerations	21/07/2017	MCAL411	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Cloud Computing Architectures

Faculty : S K Pillai

Unit	Topic Code	Topic Covered	Date	Course	Section
4	22	Service creation environments to develop cloud based applications	24/07/2017	MCAL411	A
4	23	Technologies and the processes required when deploying web services	25/07/2017	MCAL411	A
4	24	TAE-II Survey report on Implementation of company based cloud	27/07/2017	MCAL411	A
4	25	Deploying a web service from inside and outside a cloud architecture	28/07/2017	MCAL411	A
4	26	advantages and disadvantages	31/07/2017	MCAL411	A
4	27	Cloud Economics	01/08/2017	MCAL411	A
5	28	Cloud Security: Understanding cloud based security issues and threats	03/08/2017	MCAL411	A
5	29	Cloud Security: Understanding cloud based security issues and threats	04/08/2017	MCAL411	A
5	30	Data security and Storage	08/08/2017	MCAL411	A
5	31	Identity & Access Management	10/08/2017	MCAL411	A
5	32	Risk Management in cloud, Governance and Enterprise Risk Management	11/08/2017	MCAL411	A
6	33	TAE-III Open source tool for cloud application development	14/08/2017	MCAL411	A
6	34	Business Case: Business case evaluation criteria, Business outcomes examples	17/08/2017	MCAL411	A
6	35	Case Studies: Case Study on Open Source & Commercial Cloud	21/08/2017	MCAL411	A
6	36	Eucalyptus, Microsoft Windows Azure	22/08/2017	MCAL411	A
6	37	Amazon EC2, Amazon Elastic Block Storage – EBS	24/08/2017	MCAL411	A
6	38	Google Cloud Infrastructure, MapReduce	28/08/2017	MCAL411	A
6	39	AWS, Simple Storage Service – S3	31/08/2017	MCAL411	A
6	40	TAE-V Application development on cloud	01/09/2017	MCAL411	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Cloud Computing Architectures

Faculty : S K Pillai

Unit	Topic Code	Topic Covered	Date	Course	Section
6	41	Case Studies	04/09/2017	MCAL411	A
6	42	AWS, Simple Storage Services	05/09/2017	MCAL411	A
6	43	Cloud Taxonomy	07/09/2017	MCAL411	A
6	44	Case Studies	08/09/2017	MCAL411	A
6	45	advanced topic	11/09/2017	MCAL411	A



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Course wise TeachingPlan for Session : Winter 2017

Course : Object Oriented Analysis & Design

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Course Objectives and Outcomes and Introduction to OOAD	12/06/2017	MCAL401	A
1	2	Two views of software Developments: SSAD and OOAD;Why Object Orientation ;	13/06/2017	MCAL401	A
1	3	The Object Paradigm: Object and classes; Abstraction and encapsulation;	14/06/2017	MCAL401	A
1	4	Methods and Message; Interfaces, Inheritance and Polymorphism	14/06/2017	MCAL401	A
1	5	Access Control; The Business case for OO Developments.	19/06/2017	MCAL401	A
1	6	"Some of the object Oriented Methodology,Object Oriented Design -Booch,"	20/06/2017	MCAL401	A
1	7	Object Modeling Techniques- Rumbaugh	21/06/2017	MCAL401	A
1	8	Object - Oriented Analysis - Coad-Yourdan,	21/06/2017	MCAL401	A
1	9	Object - Oriented Software Engineering - Ivar Jacobson	27/06/2017	MCAL401	A
2	10	Unified Approach: Diagramming and Notational Techniques using the UML	28/06/2017	MCAL401	A
2	11	UML Notation - Introduction to all (ten) Diagram Design Diagramming Techniques	28/06/2017	MCAL401	A
2	12	Generalization / Specialization, Aggregation and composition,	03/07/2017	MCAL401	A
2	13	Association, Cardinality,	04/07/2017	MCAL401	A
2	14	Navigability Icons, relationships and adornments	05/07/2017	MCAL401	A
2	16	Four Major phases:-Inception, Elaboration, Construction, Transition;	10/07/2017	MCAL401	A
2	17	Four Major phases:-Inception, Elaboration, Construction, Transition;	11/07/2017	MCAL401	A
2	18	Requirements Engineering: Problem analysis,	12/07/2017	MCAL401	A
2	19	Understanding Stockholders need, Type of requirements	12/07/2017	MCAL401	A



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Course : Object Oriented Analysis & Design

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
2	20	Use-case Model: Writing Requirements.	17/07/2017	MCAL401	A
2	21	Analysis :-Behavioral Analysis, Domain Analysis or Business Object Analysis	18/07/2017	MCAL401	A
2	22	Use-case Driven Object oriented analysis: The UML approach,	19/07/2017	MCAL401	A
2	23	Develop use-case Model, Use-case Description	19/07/2017	MCAL401	A
3	24	Documentation, Activity Diagram,Identify the classes	24/07/2017	MCAL401	A
3	25	Introduction to different approaches for identifying classes	25/07/2017	MCAL401	A
3	26	"Noun Phrase" approach OR "Conman Class Pattern"	26/07/2017	MCAL401	A
3	27	approach Or "CRC" approach Or Use case Driven Approach	26/07/2017	MCAL401	A
3	28	Containment and Composition,Aggregation; Inheritance, Subtypes	01/08/2017	MCAL401	A
3	29	IS-A Hierarchies; Association and Link Relationships,Diagramming System Events;	02/08/2017	MCAL401	A
3	30	Design Phases :- Translating Analysis Concept into Design,	02/08/2017	MCAL401	A
3	31	Optimizing classes and Objects: The Multi-tiered Architecture	09/08/2017	MCAL401	A
3	32	View, Mapping System functions to objects,	09/08/2017	MCAL401	A
3	33	Object to Object Visibility, Collaboration Diagram,	16/08/2017	MCAL401	A
3	34	Sequential Diagram, Specification Class Diagram	16/08/2017	MCAL401	A
3	35	Specifying Object Interfaces, Designing the Data Access layer,	21/08/2017	MCAL401	A
3	36	Designing for Extensibility, Design for reusability,portioning class space.	22/08/2017	MCAL401	A
3	37	Checking Completeness and correctness.	23/08/2017	MCAL401	A
3	38	portioning class space.	23/08/2017	MCAL401	A



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Course : Object Oriented Analysis & Design

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
3	39	Checking Completeness and correctness.	04/09/2017	MCAL401	A
3	40	Checking Completeness and correctness.	05/09/2017	MCAL401	A
3	41	Introduction to Testing Strategies	06/09/2017	MCAL401	A
3	42	Impact of Object Orientation on Testing	06/09/2017	MCAL401	A
5	43	Testing Business Process, Design Matrix	11/09/2017	MCAL401	A
5	44	Discovering reusable pattern,Benefits of patterns	12/09/2017	MCAL401	A
5	45	Discovering reusable pattern,Benefits of patterns	13/09/2017	MCAL401	A
5	46	Discovering reusable pattern,Benefits of patterns	13/09/2017	MCAL401	A
5	47	Discovering reusable pattern,Benefits of patterns	18/09/2017	MCAL401	A
5	48	Using patterns During Analysis,Using Pattern during Design	20/09/2017	MCAL401	A
5	49	Using patterns During Analysis,Using Pattern during Design	25/09/2017	MCAL401	A
5	51	Using patterns During Analysis,Using Pattern during Design	26/09/2017	MCAL401	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Software Engineering

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	What is software. What is software engineering. characteristic of a good software	12/06/2017	MCAL303	A
1	2	difference between software engineering & computer science, attributes of good software	14/06/2017	MCAL303	A
1	3	key challenges of software engineering, Professional & ethical responsibility	16/06/2017	MCAL303	A
1	4	The role of Software Engineering, History of Software Engineering	16/06/2017	MCAL303	A
1	5	The role of Software Engineer, The Software Life Cycle,	19/06/2017	MCAL303	A
1	6	Classification of Software qualities, Representative qualities,	21/06/2017	MCAL303	A
1	8	quality requirements in different application areas,	23/06/2017	MCAL303	A
1	9	Measurement of Quality.	23/06/2017	MCAL303	A
1	10	Revision of Unit I	28/06/2017	MCAL303	A
1	7	Capability Maturity Model	03/07/2017	MCAL303	A
2	11	Software Engineering Principals- Rigor and Formality	05/07/2017	MCAL303	A
2	12	Separation of Concerns, Modularity	07/07/2017	MCAL303	A
2	13	Separation of Concerns, Modularity Abstraction, Anticipation of Change	07/07/2017	MCAL303	A
2	14	Generality, Instrumentality	10/07/2017	MCAL303	A
2	15	Modularization techniques	12/07/2017	MCAL303	A
2	16	Software Design - Software Design Activity and its Objectives,	14/07/2017	MCAL303	A
2	17	Modularization techniques	14/07/2017	MCAL303	A
2	18	Object -Oriented Design.	17/07/2017	MCAL303	A
2	19	Revision of Unit II	19/07/2017	MCAL303	A
3	20	Software Specification- The users of Specification	21/07/2017	MCAL303	A



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Course : Software Engineering

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
3	21	Specification Qualities	21/07/2017	MCAL303	A
1	22	Viva on Posters	24/07/2017	MCAL303	A
3	23	Software Verification- Goals and Requirement of verification,	26/07/2017	MCAL303	A
3	24	Approaches to Verification,	28/07/2017	MCAL303	A
3	25	Testing, Analysis, Symbolic Execution	28/07/2017	MCAL303	A
3	26	Debugging, Verifying other Software properties	31/07/2017	MCAL303	A
3	27	Revision of Unit III	02/08/2017	MCAL303	A
4	28	Software Production Process Models: Waterfall Model,	04/08/2017	MCAL303	A
4	29	Evolutionary Model	04/08/2017	MCAL303	A
4	30	Transformation Model,	09/08/2017	MCAL303	A
4	31	Paper showing and CAE paper discussion	11/08/2017	MCAL303	A
4	32	Spiral Model	11/08/2017	MCAL303	A
4	33	Organizing the process	18/08/2017	MCAL303	A
4	34	Management in Software Engineering- Management Functions	18/08/2017	MCAL303	A
4	35	Levels of Software Testing	21/08/2017	MCAL303	A
3	36	Topic Seminars	23/08/2017	MCAL303	A
4	37	Project Planning, Project Control,	28/08/2017	MCAL303	A
4	38	Organization, Risk Management	30/08/2017	MCAL303	A
4	39	Revision of Unit IV	01/09/2017	MCAL303	A
5	40	Historical Evolution of tools and environments	01/09/2017	MCAL303	A
4	41	Topic Seminar	04/09/2017	MCAL303	A



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Course : Software Engineering

Faculty : Pravin S Ghatode

Unit	Topic Code	Topic Covered	Date	Course	Section
5	42	Classification of Software Tools and Environments,	06/09/2017	MCAL303	A
5	43	Representative tools	11/09/2017	MCAL303	A
5	44	Representative tools	13/09/2017	MCAL303	A
5	45	Agile Development-What Agility	15/09/2017	MCAL303	A
4	46	Software management function-Staffing	15/09/2017	MCAL303	A
5	47	Staffing	18/09/2017	MCAL303	A
5	48	Agility & Cost of Change,	20/09/2017	MCAL303	A
5	49	Extreme Programming, Other Agile process Model	22/09/2017	MCAL303	A
5	50	Revision of Unit V	22/09/2017	MCAL303	A
5	51	Topic Seminar	25/09/2017	MCAL303	A
5	52	Topic Seminar	27/09/2017	MCAL303	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Web Programming

Faculty : Mr. Aparitosh U. Gahankari

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to Web Programming -, HTML	13/06/2017	MCAL403	A
1	2	Syntax of html	13/06/2017	MCAL403	A
1	3	Syntax of html	14/06/2017	MCAL403	A
1	4	Web Server and Web Browswes	15/06/2017	MCAL403	A
1	5	Elements and Attributes	20/06/2017	MCAL403	A
1	6	Headings and Paragraph , Formatting Styles	20/06/2017	MCAL403	A
1	7	Headings and Paragraph , Formatting Styles	21/06/2017	MCAL403	A
1	8	Links and Images	22/06/2017	MCAL403	A
1	9	Labels and Menu	27/06/2017	MCAL403	A
0	10	Objects and Tables	27/06/2017	MCAL403	A
1	11	Objects and Tables	28/06/2017	MCAL403	A
1	12	Lists and Fonts	29/06/2017	MCAL403	A
1	13	Frames and I Frames	04/07/2017	MCAL403	A
2	14	Color and Color Name,Color Picker and Lang Codes	04/07/2017	MCAL403	A
2	15	Color and Color Name,Color Picker and Lang Codes	05/07/2017	MCAL403	A
2	16	Status Code and advanced HTML intro	06/07/2017	MCAL403	A
2	17	HTML DOM , HEAD And SCRIPT	11/07/2017	MCAL403	A
2	18	Website Planning and Designing	11/07/2017	MCAL403	A
2	19	Website Planning and Designing	12/07/2017	MCAL403	A
2	20	HTML Styles and HTML5	13/07/2017	MCAL403	A
2	21	CSS basics and Creating Style	18/07/2017	MCAL403	A
2	22	Applied CSS	18/07/2017	MCAL403	A



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Course wise Teaching Plan for Session : Winter 2017

Course : Web Programming

Faculty : Mr. Aparitosh U. Gahankari

Unit	Topic Code	Topic Covered	Date	Course	Section
2	23	Applied CSS	25/07/2017	MCAL403	A
2	24	Adding Graphics to web page	25/07/2017	MCAL403	A
3	25	Formating Tables and Forms	26/07/2017	MCAL403	A
3	26	Formating Tables and Forms	27/07/2017	MCAL403	A
3	27	CSS Page Layout,CSS Property Reference	02/08/2017	MCAL403	A
3	28	CSS and Its other properties	08/08/2017	MCAL403	A
0	29	CSS and Its other properties	08/08/2017	MCAL403	A
3	30	Introduction, statement and operators	09/08/2017	MCAL403	A
3	31	JavaScript Functions	10/08/2017	MCAL403	A
3	32	Working With String Array	15/08/2017	MCAL403	A
3	33	Understanding Browser object Model	15/08/2017	MCAL403	A
3	34	Understanding Browser object Model	16/08/2017	MCAL403	A
3	35	Working With Window Object	17/08/2017	MCAL403	A
3	36	Document Object and reacting to events	22/08/2017	MCAL403	A
3	37	Working With String Array	22/08/2017	MCAL403	A
4	38	Working with HTML Forms	23/08/2017	MCAL403	A
4	39	Working with HTML Forms	24/08/2017	MCAL403	A
4	40	HTML control	29/08/2017	MCAL403	A
4	41	Images and Validating form data	29/08/2017	MCAL403	A
4	42	Cookies and Methods of JavaScript object	30/08/2017	MCAL403	A
4	43	Cookies and Methods of JavaScript object	31/08/2017	MCAL403	A
4	44	XML basics, Trees, Syntax and its elements	05/09/2017	MCAL403	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Winter 2017

Course : Web Programming

Faculty : Mr. Aparitosh U. Gahankari

Unit	Topic Code	Topic Covered	Date	Course	Section
5	45	Validation, Validation and Viewing	05/09/2017	MCAL403	A
5	46	CSS, XSLT, XML	06/09/2017	MCAL403	A
5	47	video lecture on XSLT, XML	12/09/2017	MCAL403	A
5	48	XML Data and XML Parser with XML DOM	12/09/2017	MCAL403	A
5	49	Installation and syntax	13/09/2017	MCAL403	A
5	50	variables, strings and operators	14/09/2017	MCAL403	A
3	51	Formating Tables and Forms	20/09/2017	MCAL403	A
3	52	Formating Tables and Forms	21/09/2017	MCAL403	A
5	53	If..else, switch, loppings , Arrays	26/09/2017	MCAL403	A
5	54	Video Lecture	26/09/2017	MCAL403	A
5	55	php Email Error and Exception	27/09/2017	MCAL403	A