MCA (6th Sem) Schedule for Personal Contact Program (Regular Mode) Venue: IKGPTU Main Campus Kapurthala						
Time	**9.00 AM-10.00 AM**	**10.00 AM-11.00 AM**	**11.00 AM- 12.00 PM**	**12.00 PM-1.00 PM**	**2.00 PM-3.00 PM**	**3.00 PM-4.00 PM**
Date	**MCA 601 DWM**	**MCA 602 CC**	**MCA 603 ACA**	**MCA 604 ST& QA**	**MCA 605 LAB ST & QA**	**MCA 606 PROJECT**
11-Mar-20	Need for data warehouse, Big data, Data Pre-Processing, Three tier architecture; MDDM and its schemas,	Overview of Cloud Computing: Introduction, Definition of cloud , Definition of cloud ,characteristics	Fundamentals of Processors: Instruction set architecture; single cycle processors	Software Testing Fundamentals-Terminology, error, fault and failures, objectives, principles, Purpose of testing, Debugging, Theoretical and practical limitations of testing	Developing applications to automate basis path testing	Requirement definition
12-Mar-20	Introduction to Spatial Data warehouse, Architecture of Spatial Systems, Spatial: Objects, data types, reference systems; Topological Relationships, Conceptual Models for Spatial Data, Implementation Models for Spatial Data, Spatial Levels, Hierarchies and Measures Spatial Fact Relationships	Why use clouds, How clouds are changing,	hardwired and micro-coded FSM processors; pipelined processors, multi-core processors	The problem of infeasible paths, Testability, Relationship of testing with other activities, Testing levels, Unit testing, Integration testing, System testing, Acceptance testing	Developing applications to automate basis path testing	Design

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13-Mar-20	Introduction to temporal Data warehouse: General Concepts, Temporality Data Types, Synchronization and Relationships, Temporal Extension of the Multi Dimensional Model,	Driving factors towards cloud, Comparing grid with cloud and other computing systems, workload patterns for the cloud, "Big Data", IT as a service.	resolving structural, data, control and name hazards; analyzing processor performance.	Testing Techniques and Strategies- Static and dynamic testing, Software technical reviews, Testing techniques and their applicability, Functional testing and analysis, Structural testing and analysis,	Developing applications to Boundary value analysis	coding
16-Mar-20	Temporal Support for Levels, Temporal Hierarchies, Fact Relationships, Measures, Conceptual Models for Temporal Data Warehouses : Logical Representation and Temporal Granularity	Cloud computing concepts: Concepts of cloud computing, Cloud computing leverages the Internet, Positioning cloud to a grid infrastructure, Elasticity and scalability, Virtualization, Characteristics of virtualization, Benefits of virtualization, Virtualization in cloud computing, Hypervisors	Fundamentals of Memories: Memory technology; directmapped	Hybrid approaches, Transaction flow analysis, Stress analysis, Failure analysis, Concurrency analysis, Performance analysis. Flow graphs and Path Testing: Path testing basics, Path predicates, Application of path testing.Data Flow Testing: Basics of data flow testing, Data flow model, Data flow testing strategies	Developing applications to Boundary value analysis	coding

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17-Mar-20	Introduction to Data Mining functionalities, Mining different kind of data, Pattern/Context based Data Mining,	Multitenancy, Types of tenancy, Application programming interfaces (API), Billing and metering of services , Economies of scale, Management, tooling, and automation in cloud computing, Management: Desktops in the Cloud, Security.	associative cache; writethrough and write-back caches; single-cycle	Software Testing and Regular Expression: Path products, Path sums, Loops, Reduction procedure, Applications	Developing applications to Data flow testing	coding
18-Mar-20	Bayesian Classification: Bayes theorem, Bayesian belief networks Naive Bayesian classification,	Cloud service delivery: Cloud service , Cloud service model architectures, Infrastructure as a service (IaaS) architecture, Infrastructure as a service (IaaS) details, Platform as a service (PaaS) architecture, Platform as a service	FSM, pipe-lined cache; analyzing memory performance	Approximate number of paths, The mean processing time of any routine, Regular expression and Flow-anomaly detection	Developing applications to Branch and statement coverage	coding

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19-Mar-20	Introduction to classification by Back propagation and its algorithm, Other classification methods: k-Nearest Neighbor, case based reasoning, Genetic algorithms, rough set approach, Fuzzy set approach	Examples of PaaS software, Software as a service (SaaS) architecture, Software as a service (SaaS) details, Examples of SaaS applications, Trade-off in cost	Advanced Processors: Superscalar execution, out-oforder execution	Software Quality: Software Quality Metrics, Standards, Certification and assessment, Quality management standards, Quality standards with emphasis on ISO	Developing applications to Rational test manager	coding
20-Mar-20	Introduction to prediction: linear and multiple regression,	Common cloud management platform reference architecture: Architecture overview diagram, Common cloud management platform	Register renaming, memory disambiguation, dynamic instruction scheduling, branch prediction	Capability Maturity Models- CMM and CMMI, TQM Models, The SPICE project, ISO/IEC 15504, Six Sigma Concept for Software Quality.Quality Planning: Inputs, Tools and techniques, Outputs	Developing applications to Rational test manager	coding

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23-Mar-20	Clustering: types of data in cluster analysis: interval scaled variables, Binary variables, Nominal, ordinal, and Ratio-scaled variables; Major Clustering Methods:	Cloud deployment scenarios: Cloud deployment models, Public clouds, Hybrid clouds, Community,Virtual private clouds, Vertical and special purpose, Migration paths for cloud, Selection criteria for	speculative execution; multithreaded, VLIW and SIMD processors.	Quality Assurance: Inputs, Quality management plan, Results of quality control measurements, Operational definitions, Quality planning tools and techniques, Quality audits, Quality improvements	Developing applications to Selennium	validation
24-Mar-20	Partitioning Methods: KMean and K-Mediods, Hierarichal methods: Agglomerative, Density based methods: DBSCAN	Security in Cloud computing : Cloud security reference model, security integration , security risks,Internal security breaches, Data corruption or loss, User account and service hijacking, Steps to reduce cloud security breaches, enhancing cloud security, identity	Advanced Memories: Nonblocking cache memories; memory protection	Quality Control: Inputs, Tools and techniques: Inspection, Control charts, Pareto diagrams, Statistical sampling, Flowcharting, Trend analysis, Outputs: Quality improvements, Acceptance decisions, Rework, Completed checklist, Process adjustments	Developing applications to Loadrunner	final testing
25-Mar-20	**Students Queries**				**Students Queries**	