



Regent Education & Research Foundation

Group of institutions

**DEPARTMENT OF MASTER OF COMPUTER
APPLICATION**

Paper Code: MCA101

Paper Name: Computer Organisation & Architecture

Semester : 1st
Academic Year : 2018-19
Faculty Name : Arnab Mazumder

Course Outcomes:

By the end of the course, the students will be able to

1. Distinguish between organization and architecture of computer system.
2. Describe about the different types of memory mapping and assess the efficiency of different types of mapping.
3. Conceptualize about the different IO systems.
4. Design different basic logic circuits.
5. Realize logic circuits with different design styles.

Paper Code: MCA101
Paper Name: Business system and Architecture

Semester : 1st
Academic Year : 2018-19
Faculty Name : Surajit Dan

Course Outcomes:

By the end of the course, the students will be able to

1. Think about the latest trends of technology.
2. Differentiate about different computer based information systems.
3. Analyze different systems and their inherent architectures.
4. Analyze and describe the ERP system.
5. Realize about different IS strategic planning.

Paper Code: MCA103
Paper Name: Computer Programming with C

Semester : 1st
Academic Year : 2018-19
Faculty Name : Krishna Kanta Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Develop programs based on different problems.
2. Implement different hardware related system programs
3. Analyze and implementation of the system with programming languages.
4. Analyze different programming errors and application of the debugging concepts.
5. Enhance and develop the logical aspect of program writing skill.

Paper Code: MM101
Paper Name: Discrete Mathematical Structure

Semester : 1st
Academic Year : 2018-19
Faculty Name : Gunjan Mukherjee

Course Outcomes:

By the end of the course, the students will be able to

1. Logically analyze different problems
2. Enhance the numerical ability to handle any problem
3. Develop and design any algorithm with the appropriate complexities.
4. Inculcate the problem solving capability.
5. Analyze complexities of different problems using the mathematical perspectives.

Paper Code: HU101
Paper Name: Business English and Communication

Semester : 1st
Academic Year : 2018-19
Faculty Name : Amrita Chakra borty

Course Outcomes:

By the end of the course, the students will be able to

1. Pick up the interpersonal communication skills.
2. Enhance the writing skill.
3. Integrate the thought patterns into writing habits
4. Enhance the skill of presentation
5. Demonstrate any problem sufficient documentation.

Paper Code: MCA201

Paper Name: Data Communication & Computer Networks

Semester : 2nd
Academic Year : 2018-19
Faculty Name : Gunjan Mukherjee

Course Outcomes:

By the end of the course, the students will be able to

1. Understand the principle of communication and its applicability.
2. Troubleshoot different allied networking problems.
3. Configure servers and clients.
4. Fix up any problems related to the client communication.
5. Apply different networking policies and security constrains in the judicial way.
6. To apply the authentication and permission over any resources with respect to any clients.

Paper Code: MCA202
Paper Name: Information Systems Analysis & Design

Semester : 2nd
Academic Year : 2018-19
Faculty Name : Surajit Dan

Course Outcomes:

By the end of the course, the students will be able to

1. Analyze any system and find any malfunctioning of the system.
2. Differentiate between the logical and physical design aspects of the system.
3. Analyze different system models and assess their applicability.
4. Apply the concept of project managements and quality measurements
5. Implement the strategic planning and audit the system.
6. Impose controls and design different types of SRS and other prototyping.

Paper Code: MCA203
Paper Name: Data Structures with C

Semester : 2nd
Academic Year : 2018-19
Faculty Name : Krishna Kanta Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Design and develop any algorithm
2. Analyze the complexities of different algorithms
3. Inculcating the knowledge about the different sorting and searching techniques
4. Differentiate between the linear and nonlinear data structures and get the insights of their scope of applicability.
5. Differentiate between the static and dynamic data structure and assess their scopes of applicabilities.
6. Develop the problem solving capabilities on multiple and multidimensional data.

Paper Code: MCA204
Paper Name: Data Base Management System I

Semester : 2nd
Academic Year : 2018-19
Faculty Name : Surajit dan

Course Outcomes:

By the end of the course, the students will be able to

1. Design the database of any organization.
2. Manage the big database by applying the concept of normalization.
3. Apply the transaction policies on to the database.
4. Inspect the defects and conflicts in the database.
5. Handle the backup and recovery management of the database.
6. Design the database models.

Paper Code: MCA205
**Paper Name: Object-Oriented Programming
With C++**

Semester : 2nd
Academic Year : 2018-19
Faculty Name : Arnab Majumder

Course Outcomes:

By the end of the course, the students will be able to

1. Differentiate between the object oriented paradigms from the non-object oriented paradigm.
2. Design object oriented program model
3. Define the class and object structure.
4. Apply the concept of object security using data hiding concept.
5. Implement the concept of file handling to cope up with the large number of records.
6. Implement the imposing of different levels of authentication to the files.

Paper Code: MCA301
Paper Name: Operating Systems and Systems Software

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Mainak Sarkar

Course Outcomes:

By the end of the course, the students will be able to

1. See the details of the working of OS
2. Comprehend the different management activities of OS
3. Configure and install the OS.
4. Configure security to the OS level of the system.
5. Implement the concept of parallel processing concept.

Paper Code: MCA302
Paper Name: Unix and Shell Programming

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Arnab Majumder

Course Outcomes:

By the end of the course, the students will be able to

1. Install and configure the UNIX.
2. Execute the general purpose utility commands
3. Implement different authentication to the file levels.
4. Configure security to the OS level of the system.
5. Implement the concept of networking concept in Unix.

Paper Code: MCA303
Paper Name: Intelligent system

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Gunjan Mukherjee

Course Outcomes:

By the end of the course, the students will be able to

1. Implement different search algorithm to the common application.
2. Inculcate the decision making intelligence to any existing application
3. Differentiate between the different learning algorithms
4. Implement different AI based algorithms using the logic programming languages

Paper Code: MM301
**Paper Name: Statistics and Numerical
Techniques**

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Dr. Aurobindo chakraborty

Course Outcomes:

By the end of the course, the students will be able to

1. Calculate and estimate error in the complex computation
2. Implement the interpolation and extrapolations on some statistical datasets.
3. Solve different linear and nonlinear equations.
4. Solve the different differential equations
5. Analyze different series by using the statistical approach.

Paper Code: MBA301
Paper Name: Business Management

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Dr. Moumita Ghosh

Course Outcomes:

By the end of the course, the students will be able to

- 1) Explain Basics of management; Planning, scheduling, organising, staffing, directing, controlling Managerial economics and financial management, productivity management.
- 2) Explain Human resource development and management, selection, training and role of IT.
- 3) Describe Introduction to management control systems: goals, strategies; Performance measures in detail.
- 4) Describe in detail, Strategy: firm and its environment, strategies and resources, industry structure and analysis, corporate strategies and its evaluation, strategies for growth and diversification, strategic planning.
- 5) Site Case Studies in Indian Context.

Paper Code: MBA302
Paper Name: Management Accounting

Semester : 3rd
Academic Year : 2018-19
Faculty Name : Sanjib Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Analyze the financial statements
2. Estimate the cost volume profit relationship.
3. Calculate the financial budget
4. Execute different financial computer packages

Paper Code: MCA401

Paper Name: Software Engineering & TQM

Semester : 4th
Academic Year : 2018-19
Faculty Name : Mainak Sarkar

Course Outcomes:

By the end of the course, the students will be able to

1. Define software lifecycle
2. Define different software models.
3. Estimate the cost of any software
4. Assure the qualities of different software products.
5. Apply different test cases to the different software application products.

Paper Code: MCA402
Paper Name: Graphics and multimedia

Semester : 4th
Academic Year : 2018-19
Faculty Name : Gunjan Mukherjee

Course Outcomes:

By the end of the course, the students will be able to

1. Apply the raster and vector graphics
2. Apply the transformation of different graphic models both in the two dimensional and three dimensional.
3. Apply the concept of clipping algorithms to different real life graphical models.
4. Apply different rendering techniques.
5. Design the different multimedia applications using different design methodologies.

Paper Code: MCA403
Paper Name: Data Base Management System II

Semester : 4th
Academic Year : 2018-19
Faculty Name : Krishna Kanta Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Apply the higher order normalizations to different database
2. Apply different database securities and various locking mechanisms with proper concurrency controls.
3. Implement the distributed database concept to the development of real life database models.
4. Design the good transaction strategies in DBMS .

Paper Code: MM401
Paper Name: Operation Research & Optimisation Techniques

Semester : 4th
Academic Year : 2018-19
Faculty Name : Surajit Dan

Course Outcomes:

By the end of the course, the students will be able to

1. Apply the concept of shortest path techniques to different real life problems.
2. Handle the problems related to the dynamic problems.
3. Apply the concepts to the inventory controls.
4. Analyze the Basic structure of the queuing theory
5. Apply the algebraic methods and graphical methods to the game playing problems.

Paper Code: HU401
Paper Name: Environment and Ecology

Semester : 4th
Academic Year : 2018-19
Faculty Name : Dr Rajdeep Chakraborty

Course Outcomes:

By the end of the course, the students will be able to

1. Comprehend the basic essence of ecology.
2. Comprehend and control factors causing air pollutions.
3. Comprehend and control factors causing water pollutions.
4. Comprehend and control factors causing land pollutions.
5. Comprehend and control factors causing noise pollutions

Paper Code: MCAE502A
Paper Name: System Administration and Linux

Semester : 5th
Academic Year : 2018-19
Faculty Name : Arnab Majumder

Course Outcomes:

By the end of the course, the students will be able to

1. Configure the network management.
2. Comprehend data management in Linux .
3. Apply the tool command language.
4. Implement and configure the essential administrative tools.
5. Implement the security concept to the Linux systems

Paper Code: MCAE503B
Paper Name: Object Oriented Programming with Java

Semester : 5th
Academic Year : 2018-19
Faculty Name : Gunjan Mukherjee

Course Outcomes:

By the end of the course, the students will be able to

1. Comprehend the basic structures of object oriented paradigm.
2. Implement the java program to the real life application development.
3. Apply the concept of thread techniques to design and implement the concept of the operating systems .
4. Apply java based windows programming concept to design and develop different desktop application.
5. Differentiate the java language from other non-object oriented paradigms

Paper Code: MCAE504B
Paper Name: E-Commerce

Semester : 5th
Academic Year : 2018-19
Faculty Name : Surajit Dan

Course Outcomes:

By the end of the course, the students will be able to

1. Apply the electronic commerce process and allied theories.
2. Conceptualize the basic principles of supply chain managements.
3. Apply the strategies of marketing and the business processes.
4. Apply the concepts of business process reengineering concepts.
5. Comprehends different protocols for communication and international trading networks.

Paper Code: MCAE501A
Paper Name: Distributed database management

Semester : 5th
Academic Year : 2018-19
Faculty Name : Krishna Kanta Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Design the Distributed database management concept with proper transparencies.
2. Implement the distributed dead locks using different protocols.
3. Carry out the distributed transactions using different networking protocols.
4. Implement the distributed administrations to the federated database systems.
5. Implement the client server database systems with integration of the requisite features.

Paper Code: HU501
Paper Name: Values and Ethics of Profession

Semester : 5th
Academic Year : 2018-19
Faculty Name : Dipali Maity

Course Outcomes:

By the end of the course, the students will be able to

1. Apply the professional knowledge to the proper resource managements.
2. Implement the technological resources in the ecofriendly manner.
3. Initiate the technology transfers. .
4. Apply the technological knowledge in the automation process in judicious manner.
5. Inculcate the professional ethics and sense of duties.