



MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA

(MACFAST)

Name of the students studied courses on experiential learning

MBA 2020-22 BATCH

SL.NO	REG.NO	NAME
1	203240010615	Sheron Issac George
2	203240010616	Abhijeet Seraphin Pereira
3	203240010617	Abhishek T M
4	203240010618	Achamma N Thangalathil
5	203240010619	Adarsh Daniel
6	203240010620	Akash P Kumar
7	203240010621	Akhil Gopakumar
8	203240010622	Akhil Manoj
9	203240010623	Akhila Ajayan
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16	203240010630	Amrutha Sunil
17	203240010631	Amrutha V Nair
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26	203240010640	Arun Thomas Philip
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54	203240010668	Jishy Sebastian
55	203240010669	Jithin Jose
56	203240010670	Jojoy Mathew
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59	203240010673	Justin Abraham Reji
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61	203240010675	Justin Sam James
62	203240010676	Karthik C Mouli
63	203240010677	Krishnapriya R Pillai
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74	203240010688	Melvin Thomas Roy
75	203240010689	Merryn Ann Samuel
76	203240010690	Mohammed Bilal Mohammed Kabeer
77	203240010691	Nair Devika Satheesh
78	203240010692	Nikhil A Nair
79	203240010693	Nikhil K
80	203240010694	Nithin Shaji Mathew
81	203240010695	Nivin Chacko Varghese
82	203240010696	Nivyaja Vinod
83	203240010697	Noble James
84	203240010698	Noel Mariya Kuruvilla
85	203240010699	Pranav Mohan
86	203240010700	Rahul Raj R
87	203240010701	Reshma Reghu
88	203240010702	Rini C R
89	203240010703	Rini Saju
90	203240010704	Riswana Ikbal





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92	203240010706	Sania Usman
93	203240010707	Shalin Abraham
94	203240010708	Shan Elsa James
95	203240010709	Sharon John Biju
96	203240010710	Shikha Mol
97	203240010711	Shyamjith T S
98	203240010712	Sibin Oommen Babu
99	203240010713	Sijo John Mathew
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114	203240010728	Vidhun Mohan M
115	203240010729	Vipin V
116	203240010730	Visakh S Kumar



		Knowledge	No. of Credits
MB010202	MARKETING MANAGEMENT	S2 Working	Core Course 3

Course Objective		
1.	To introduce the key business function of Marketing with modern realities	
2.	To provide the participants conceptual framework of Marketing	
3.	To impart key insights into the practical aspects of Marketing in different type of Organisations	
Module No.	Title &Contents	No. of Sessions LT (Indicative)
1.	INTRODUCTION TO MARKETING&CAPTURING MARKETING INSIGHTS 1.1 Marketing as the top line function in Organizations - New Marketing Realities - Company Orientation toward the Market place- Marketing Myopia - Marketing Management Tasks 1.2 Marketing as Creating, Communicating, and Delivering Value - Value chain - Customer satisfaction as the end of the value chain 1.3 Marketing Environment - Internal and External environment - Introduction to Marketing Research & Marketing Information System 1.4 Market Strategic Planning - Elements of Marketing Plan	4 + 4
2.	ANALYZING BUYER BEHAVIOUR & SELECTING MARKETS 2.1 Types of Consumer Buying Behaviour - Factors affecting Buyer Behaviour - Buyer Roles - Consumer Buying Decision Process 2.2 An overview of Organizational Buying Decisions 2.3 Segmentation, Targeting & Positioning - Strategies 2.4 Tapping Global Markets 2.5 Competitive Strategies for Market	3 + 3
3.	ELEMENTS OF MARKETING MIX 1 - PRODUCT DECISIONS 3.1 Product - Product Levels - Customer Value Hierarchy 3.2 Product Classifications - Product & Service Differentiation - Product Systems & Mixes - Product Line Analysis 3.3 Product Life Cycle Strategies - Illustrations 3.4 An overview of Brand Management - Co-Branding, Ingredient Branding 3.5 Packaging & Labeling Decisions - Warranties & Guarantees 3.6 New Market Offerings - New Product Success & Failure - New Product Development Decision Process - Consumer Adoption Process	4 + 3
4.	ELEMENTS OF MARKETING MIX 2 - DISTRIBUTION & PROMOTION DECISIONS 4.1 Distribution as a part of Value Delivery 4.2 Role of Marketing Channels - Channel Functions & Flows - Channel Levels - Channel Management Decisions -VMS & HMS - E-Commerce & M-Commerce 4.3 Introduction to Retailing & Wholesaling - Franchising - Teleshopping - Shopping through Internet 4.4 Communicating Value - Marketing Communication Mix - Steps in Developing Effective Communication Mix - Concept of Integrated	4 + 2



	Marketing Communications 4.5 Marketing Communication Mix Management - An overview	
5.	MARKETING CONTROL - MODERN TRENDS IN MARKETING - CHALLENGES 5.1 Marketing Implementation & Control - Marketing Metrics - Marketing Audit 5.2 Future of Marketing - Emerging Trends 5.3 Marketing Challenges in Globalized Era - Impact of Digitization & Information Technology on Marketing - Marketing through Social Network - Nano Marketing 5.4 Green Marketing	2 + 1

Suggested readings

1. Kotler Philip, Keller Kevin, Koshy Abraham & Jha Mithileshwar, **MARKETING MANAGEMENT A South Asian Perspective** - Pearson Education 4th edition
2. Ramaswamy V.S. & Namakumari S, **MARKETING MANAGEMENT - Global Perspective, Indian context** - MacMillan 4th edition
3. Rajan Saxena - **MARKETING MANAGEMENT** - Tata McGraw Hill - 4th edition
4. Kotler Philip & Armstrong Gary, **Principles of Marketing (15th Edition)** - Pearson Prentice Hall
5. Etzel, MJ, BJ Walker and William J Stanton., **Marketing (Fourteenth Edition)**. McGraw Hill, 2007.
6. Neelamegham, S., **Marketing in India: Text and Cases (4/e)**. Vikas Publishing House, 2012.
7. Panda, Tapan K., **Marketing Management: Text and Cases Indian Context**. Excel Books India, 2009.

Learning Outcomes	
1.	The participants will be able to understand the framework of Marketing Function in Organisations
2.	The participants may be able to solve Strategic Marketing Problems
3.	At the end of this course, the participants will be able to specialise in various elements of Marketing



Course Code	Course Title	Semester & Level of Knowledge	Type of Course & No. of Credits
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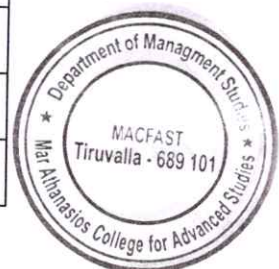


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Course Code	Course Title	Semester & Level of Knowledge	Type of Course & No. of Credits
MB010101	MANAGEMENT CONCEPTS AND ORGANISATIONAL BEHAVIOUR	S1 Basic	Core Course 4
Course Objective			
1	To provide the participants conceptual framework in Management functions and practices		
2	To provide basic insights into Individual and Group Behaviour in Organisations		
3	To introduce framework of Organisation Structure, Climate		
Module No.	Title & Contents	No. of Sessions LT (Indicative)	
1.	MANAGEMENT AND DECISION MAKING 1.1 Changing Job of a Manager in the light of Technology & Digitization, Organisational & Managerial Ethics, Competitiveness, Security Threats – Managing Diversity 1.2 Role of Importance of Customers, Social Media, Innovation and Sustainability to Manager's Job 1.3 Decision Making Process – Decision Making Conditions of Certainty, Risk & Uncertainty 1.4 Decision Making Perspectives – Rationality, Bounded Rationality, Intuition, Evidence Based Management 1.5 Effective Decision Making – Big Data & Decision Making	5 + 1	
2.	MANAGERIAL FUNCTIONS 2.1 Planning –Types of Plans – Goals and Plans – Management by Objectives (MBO) – Contemporary Issues in Planning 2.2 Designing Organisational Structure – Departmentalisation – Cross Functional Teams – Mechanistic & Organic Structures – Contingency Factors affecting Structural Choice – An Overview of Contemporary Organisational designs 2.3 Importance of HRM – HRM Process 2.4 Leadership – Contingency Theories of Leadership – Contemporary Views of Leadership 2.5 Controlling – Control Process – Tools for Measuring Organisational Performance – Contemporary Issues in Control	5 + 1	
3.	MANAGING INDIVIDUAL BEHAVIOUR 3.1 Personality – MBTI – Big Five Model –Self-esteem – Self-monitoring – Proactiveness & Resilience 3.2 Attitudes & Its Components – Cognitive – Affective – Behavioural – Cognitive Dissonance Theory 3.3 Emotions & Emotional Intelligence – its Implications 3.4 Perception – Factors Influencing Perception 3.5 Learning – Operant Conditioning – Social Learning – Shaping as a Managerial Tool	5 + 1	
4.	MOTIVATION 4.1 Early Theories of Motivation –Needs Hierarchy Theory Theory X and theory Y – Two Factor Theory – Three Needs Theory 4.2 Contemporary Theories of Motivation – Reinforcement Theory – Expectancy Theory 4.3 Current Issues in Motivation – Motivating in Challenging	5 + 1	



	Economic Circumstances - Cross Cultural Motivational Challenges - Motivating Unique Group of Workers & Diverse Workforce 4.4 Motivating Professionals - Motivating Low Skilled Employees	
5.	GROUP BEHAVIOUR & CONTEMPORARY ORGANISATIONAL ISSUES 5.1 Group - Stages of Group Development - Group Dynamics 5.2 Work Teams - Types - Creating Effective Work Teams 5.3 Managing Global Teams - Team Skills & Social Network 5.4 Managing Change - Types of Change - Resistance to Change - Changing Organisational Culture - Employee Stress 5.5 Creativity Vs Innovation - Stimulating & Nurturing Innovation - Managing Diversity - Types of Diversity	5 + 1

Suggested Readings

1. Stephen P. Robbins, Mary Coulter - Management 13th Edition - Pearson
2. Stoner J.A.F., Freeman R.E, Daniel R. Gilbert - Management - 6th Edition - Pearson
3. Aswathappa K. - Essentials of Business Administration - Himalaya Publishing House
4. Harold Koontz, Heinz Weihrich - Essentials of Management - McGraw Hill
5. Tripathy P.C., Reddy P.N. - Principles of Management - Tata McGraw Hill



Learning Outcomes	
1	The participants will get basic insights into Management concepts and Functions
2	At the end of this course, participants are expected to acquire basic knowledge about role of individual and group behaviour in organisations
3	The participants are expected to gain knowledge about recent trends in Managerial Process

Course Code	Course Title	Semester & Level of Knowledge	Type of Course & No. of Credits
MB010102	BUSINESS COMMUNICATION	S1 Basic	Core Course 4
Course Objective			
	To familiarize the participants with the basics of business communication		
1	To make the participants appreciate the application of these concepts in business environment		
2	To sensitize the participants to non-verbal communication and effective utilization of the same.		
Module No.	Title & Contents	No. of Sessions LT (Indicative)	
1.	INTRODUCTION TO COMMUNICATION 1.1 Communication in a business environment 1.2 Types of communication, Principles of effective communication 1.3 Reading, listening and notemaking / notetaking skills	2 + 1	



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3	Aditya Varghese
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6	Akhil P Anil
7	Aleena Sara John
8	Allen V Philip
9	Alpha T Joy
10	Amal Biju
11	Amala Elsa Alex
12	Amalu Velappan
13	Anaina Varghese
14	Anju John
15	Anju Prakash
16	Ansil K N
17	Ansu A Titus
18	Ansu Achankunju
19	Anu Krishnan K
20	Arshit T S
21	Arunima R
22	Arya Ravi Sankar
23	Ashna Rajan
24	Aswin Ashok
25	Athira S Kumar
26	Athira V
27	Athul Santhosh
28	Ayush Joseph Jacob
29	Benilda Varughese
30	Bibin Babu
31	Blesswin Varghese
32	Bright Binu Thomas
33	Cherian T Mali
34	Christin M Titus
35	Christin Thomas Varghese
36	Christin Varghese
37	Christy John
38	Dhanya S Pradeep
39	Divya Binu





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41	Harikrishnan R
42	Hrithya Sali
43	Jack P James
44	Jamuna John
45	Jeny Maret Rajee
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47	Jisha Varghese
48	Jithin Mathew Shaji
49	Jithin Thomas Philip
50	Jobin Kurian John
51	Joel Joseph
52	Johns Pulimoottil Thomas
53	Joice Elezabeth Johnson
54	Jojis P Joseph
55	Jubin S Saji
56	Justin Mathew
57	Justin Samuel
58	Keziah Kuttappan
59	Laxmi Prakash
60	Ligisha P Sabu
61	Lovis Mathew
62	Meera Markose
63	Merin Ann Varughese
64	Meriya Elizabeth Cherian
65	Midhuna Susan Samuel
66	Neethu Grace Thomas
67	Neethu Teressa Thomas
68	Nidhin Raju
69	Nikila Mariam John
70	Nisha Philip
71	Nithin Daniel
72	Nithin V John
73	Paul P Joy
74	Pranav M Nair
75	Pranav Satheesan
76	Raichel K Jays
77	Rechsah Saji
78	Rejin Varghese Mathew
79	Reshma T R
80	Ria Jose



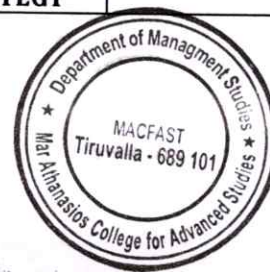


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81	Rimcy M Yohannan
82	Rintu Jose
83	Roni Elizabeth Abraham
84	Sanjith Sam Varghese
85	Senmon Jose
86	Serin Anna Babu
87	Shebin Thampy
88	Sherin Philip
89	Sherin Roy
90	Shibin Easo Varghese
91	Shilpa John
92	Simi Monachen
93	Siva Prakash
94	Sona Elsa Zachariah
95	Sona Mariam Eapen
96	Soorya Narayanan K R
97	Sreelakshmi H
98	Sruthi P G
99	Sruthy K Madhu
100	Sruthy Sreeni
101	Stephen Mani
102	Subin John Mathews
103	Sufna Iqbal
104	Sumi Sam Abraham
105	Tinsu Johnson
106	Tojy George Thomas



Course Code	Course Title	Semester & Level of Knowledge	Type of Course & No. of Credits
MB010401	STRATEGIC MANAGEMENT	S4 Working	Core Course 4
Course Objective			
1.	To expose students to various concepts and perspectives in the field of Strategic Management		
2.	To help participants develop skills for applying these concepts in various contexts to solve business problems		
3.	To enable to students to use traditional and contemporary analytical tools of Strategic Management		
Module No.	Title & Contents	No. of Sessions LTP (Indicative)	
1.	UNDERSTANDING STRATEGY 1.1 Introduction to Strategic Management: Introduction to Strategy, overview of strategic management, meaning and characteristics of strategic management, strategic management process model 1.2 Hierarchy of Strategic Intent: Meaning & attributes of strategic intent, meaning of vision, meaning of mission, difference between vision & mission, characteristics of good mission statements, objectives and goals, Critical Success Factors (CSF), Key Performance Indicators (KPI), Key Result Areas (KRA).	4 + 2	
2.	ANALYSING THE ENVIRONMENT 2.1 Analysing company's external environment: External environmental analysis, Macro environment and industry analysis, Porter's Five Forces analysis, competitor analysis 2.2 Analysing company's internal environment: SWOT Analysis, Resource based view of a firm, competitive advantage, core competence, characteristics of core competencies, core competence as the root of competitive advantage 2.3 Value chain analysis using Porter's model: Primary and secondary activities 2.4 Business Portfolio Analysis: BCG Matrix, GE 9 Cell Model, Strategic analysis and choice	4 + 2	
3.	TYPES OF STRATEGIES 3.1 Strategic alternatives: Corporate, business and functional levels of strategy 3.2 Corporate level strategies: Stability strategies, Growth strategies (Diversification Strategies, Vertical Integration Strategies, Mergers, Acquisition & Takeover Strategies, Strategic Alliances & Collaborative Partnerships), Retrenchment strategies (Turnaround, Divestment, Liquidation, Outsourcing Strategies). 3.3 Business level strategies : Generic competitive strategies, Cost leadership, Differentiation, Focus	4 + 2	
IMPLEMENTATION, EVALUATION AND CONTROL OF STRATEGY			



4.	4.1 Strategy implementation: Resource allocation, leadership in strategic management 4.2 Strategy, structure and organisation culture, strategies for managing change 4.3 Strategic evaluation and control: Evaluation of strategy, use of Balanced Score Card, Six Sigma process (concepts only), controls, premise, surveillance, implementation and strategic alert control	4 + 2
5.	RECENT DEVELOPMENTS IN STRATEGY 5.1 Blue ocean strategy: Difference between blue & red ocean strategies, principles of blue ocean strategy, strategy canvas & value curves, four action framework 5.2 Business models: Meaning & components of business models, new business models for internet economy, E-commerce business models and strategies, internet strategies for traditional business 5.3 Sustainability and strategic management: Corporate social responsibility and sustainability, integrating social & environmental sustainability issues in strategic management, meaning of triple bottom line, people-planet-profits.	4 + 2

Suggested Readings:

1. Hill, Charles W.L. and R. Jones, Gareth, *Strategic management: An integrated approach*, Cengage
2. Wheelen, Thomas L and Hunger, David J, *Concepts in Strategic Management & Business Policy*, Pearson
3. Azhar Kazmi, *Strategic Management*, Tata McGraw Hill
4. Srinivasan R, *Strategic Management: The Indian Context*, Prentice Hall of India
5. Mason Carpenter, Gerard Sanders, Prashant Salwan, *Concepts and Cases Strategic Management- A dynamic Perspective*, Pearson Education, India
6. Glueck, W F and Lavch, L. R *Business policy and Strategic Management*, McGraw Hill, New Delhi.
7. Gregory G. Dess and Alex Miller, *Strategic Management*, McGraw Hill, India
8. Srivastava RM, *Strategic Management: Concepts, Skills and Practices*, Prentice Hall of India

LEARNING OUTCOMES	
1.	The Participants will be able to understand the concepts and perspectives in the area of Strategic Management
2.	Participants will acquire the necessary skills in using traditional and contemporary Analytical tools of Strategic Management
3.	At the end of the course, Participants will develop the ability to take the right Managerial Decisions and solve Business Problems



**DEPARTMENT OF COMPUTER APPLICATIONS
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31	203242210507	Christy Abraham
32	203242210508	Elbin Joseph
33	203242210509	Fathima Lulu

Head, Department of Computer Applications
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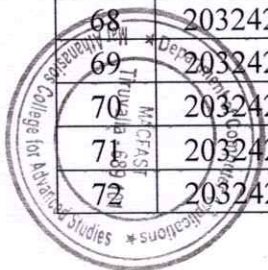




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56	203242210532	Neethu T Thankachan
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61	203242210537	Nithin Mathew
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63	203242210539	Ponnu P Thomas
64	203242210540	Pooja Ajith
65	203242210541	Rahul M
66	203242210542	Reji Varkey
67	203242210543	Reshma B
68	203242210544	Revathy R
69	203242210545	Rinu Ann George
70	203242210546	Robin Samuel Roys
71	203242210547	Safna Sudheer
72	203242210548	Saju Koshy Kurian



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74	203242210550	Sanu Sathyan
75	203242210551	Sareena Saji
76	203242210552	Sneha Suresh
77	203242210553	Sona S
78	203242210554	Soumya S Varghese
79	203242210555	Sreeja Saji
80	203242210556	Sreelekshmy V R
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92	203242210568	Vishnu Vijayan



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Course Code	Course Title
MCA 205	Object oriented Lab (Java Lab)

Module No.	Title & Contents	No. of Sessions
1	Basics of Java: Programming concepts, Array implementation, Strings, Reading input from keyboard Introduction to Object Oriented Programming concepts : Classes, Methods, Constructors, access specifiers, Encapsulation, Polymorphism, Method & constructor overloading, Inheritance and its different types, super keyword, abstraction through abstract classes.	17
2	Interfaces and Packages- Built in and user defined packages, access protection in packages Exception handling- basic concepts, types of exception, user defined exception Multithreading Programming - Defining threads, Life cycle, creating single and multiple threads, Thread priorities, Synchronization File handling - Built in methods, Reading , writing, copying and appending a file.	16
3	Applets - Basics, Life cycle, applet methods, applet tag, passing parameters to applet, adding image file to applet, Working with Graphics, AWT Controls and Text : Graphics programming, Color class, Font class, Font Metrics Swings - Introduction, Hierarchy of classes, Controls with event handling	18
4	Layout Managers ,Menus - Menubars, submenus, Dialog boxes, File Dialog Database Connectivity - JDBC overview, JDBC implementation & its architecture, Establishing connectivity and working with connection interface, Working with statements, Creating and executing SQL statements, Working with Result Set	11
5	Networking- Socket programming, TCP/IP, Datagram, Multicast Developing a GUI application	10

Text Books & References

1. Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
2. Object Oriented Programming With Java, E.Balagurusamy 5th Edition, McGraw-Hill Education
3. Core Java Volumell - Advanced Features, Cay S.Horstmann and Gary Cornell, 9th Edition, Pearson
4. Java Networking Programming, Elhotte Rusty Harold, 4th Edition, O'REILLY
5. Core Java For beginners, Rashmi Kanta Das, Revised Edition, Vikas Publishing House Pvt.Ltd
6. Programming with Java, Dr.T.V Suresh Kumar, Dr.B.Eswara Reddy, Raghavan P, First Edition Pearson
7. Introduction to Object Oriented Programming through Java, First Edition, ISRD Group, TataMcGraw Hill



8. A Text book on Object Oriented Design and Programming using Java, Divya B, Neena V.V and Akhil Paulose, First Edition
9. Online Resources : <https://www.oracle.com/in/java/technologies/javase-downloads.html>,
<https://docs.oracle.com/javase/tutorial/>



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Application Development in Laravel Framework

Introduction to PHP frameworks- Introduction to MVC architecture, Laravel, Basic features, Creating projects using Laravel, Mini Project. **Introduction to Semantic Webs:-** What is semantic web?, RAP: RDF API for PHP. **Introduction to Web Hosting:** Demonstration of how to host a php project on a server



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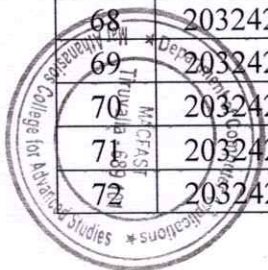




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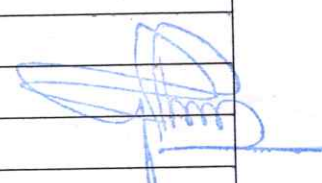
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**DEPARTMENT OF COMPUTER APPLICATIONS
LIST OF STUDENTS STUDIED COURSES ON EXPERIENTIAL
LEARNING-MCA 2019-2022**

Sl.No	Reg.No	Name of the Student
1	193240910229	Abhijith S G
2	193240910230	Aji S Varghese
3	193240910231	Akhil A.K
4	193240910232	Akshaya Baiju
5	193240910233	Amala Vijayan
6	193240910234	Anand Raj
7	193240910235	Anandhu R Nair
8	193240910236	Anit Maria Abraham
9	193240910237	Anju C.A
10	193240910238	Anju T Pillai
11	193240910239	Anzila Samad
12	193240910240	Arjun T Raju
13	193240910241	Athalya Mariam Jacob
14	193240910242	Athria M.s
15	193240910243	Chinnu Sunny
16	193240910244	Gayathri Ravindran
17	193240910245	Gayathry
18	193240910246	Gopika V Kumar
19	193240910247	Jibu Issac raj
20	193240910248	Jincy Elsa John
21	193240910249	Jitty D Joseph
22	193240910250	Karuna Elsa John
23	193240910251	Merlin Elsa Kurian
24	193240910252	Nandu krishnan
25	193240910253	Pooja Prasad
26	193240910254	Princy sara Chacko
27	193240910255	Riji Mary Rajan


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29	193240910257	Sherin Elsa Shaji
30	193240910258	Sherin K Roy
31	193240910259	Vishnu Babu
32	193240910260	Vishnupriya S
33	193240910261	Vivek T Varghese
34	193240910262	Vrinda M Rajan



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MCA 306P PHP PROGRAMMING PRACTICALS

Installing PHP, creating and working with variables, constants, PHPs Internal Data Types;

Math Operators, Assignment Operators, String Operators, Bitwise Operators, Comparison Operators, Logical Operators;

Using the IF Statement, else Statement, elseif, ternary operator, switch statement, while loops, do..while loops, foreach loop;

String functions, formatting text strings, arrays, handling arrays with Loops Sorting

Arrays; Array Operators; Multidimensional Arrays;

Functions in PHP, passing arrays to functions, passing by reference, returning arrays, introducing variable scope in PHP, Conditional Functions, Nesting functions, Variable Functions;

Setting Webpages to communicate with PHP; Handling text fields, text areas, check boxes, radio buttons, list boxes, password controls, image maps, buttons, File uploads;

PHP server variables, HTTP Headers

Object oriented Programming – creating classes, objects, setting access, Constructors, Inheritance, Overloading, Autoloading Classes

Static Methods, Creating Abstract Classes, Interfaces, FINAL Keyword;

File handling – fopen, feof, fgets, closing a file, fgetc, f_get_contents, file_exists, filesize, fread, fscanf, fseek, copying files, fwrite, reading and writing binary files, appending to files

Working with Database – MySQL Database, Connecting to the database server and database, displaying the table data, updating databases, inserting new data into database, creating new tables, deleting records, sorting the data.

Sessions and cookies – Setting a cookie, reading a cookie, working with ftp, downloading files with ftp, uploading and deleting files with ftp, sending email, writing a hit counter using sessions;

References:

- The complete reference PHP, McGraw Hill Education, Holzner;
- PHP Programming, Penn Wu,
- Object oriented PHP, Peter Lavin
- Modern PHP, Josh Lockhart



A handwritten signature in blue ink, consisting of stylized loops and a horizontal line at the end.

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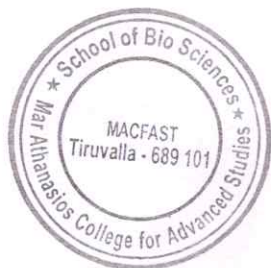
SCHOOL OF BIOSCIENCES

Names of the students studied course on experiential learning (2020-21)

Programme: M. Sc. Bioinformatics
Course: BT010105 Laboratory course I

M. Sc. Bioinformatics (2020-22 batch)

SI No.	ROLL No.	NAME OF STUDENT
1.	200011019263	Ebin Siby
2.	200011019264	Haritha B
3.	200011019265	Jojo Joseph
4.	200011019266	Malavika
5.	200011019267	Reeba Rachel Simon
6.	200011019268	Sreevidya S. Devi
7.	200011019269	Stalin Dany Shaji
8.	200011019270	Thasni A



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Operators and Expressions; Managing I/P and O/P Operators. Decision making and Branching Decision making and Looping arrays.

Module – V

Strings, Functions, Structures & Files in C(17 hrs)

Strings; Handling of Character Strings; User defined Functions – Introduction, A Form of C Functions, Return Values and their types, Category of Functions, recursion. Structures : Introduction, Structure : Definition, Giving Values to members, Structure Initialization, Comparison of Structure Variables, Arrays of Structure Variables, arrays of Structures, union, Pointers. Introduction to FILE Concept in C Language.

References

1. Alexis Leon & Mathews Leon – Fundamentals of IT
2. E.Balaguruswamy – Programming in ANSI C
4. Barbara Wilson – Information Technology : The Basics
5. L.N.Charli – Bioinformatics and Bioprogramming in C
6. Wibas C, Jenbeck P – Developing Bioinformatics Computer Skills

BT010105 LABORATORY COURSE 1

I. Identification of Carbohydrates, Proteins and Lipids by Qualitative Analysis (Colour Reactions)

- * Identification of mixtures - Carbohydrates and Proteins
- * Carbohydrates - Monosaccharides, Disaccharides and Polysaccharide
- * Lipids - Cholesterol
- * Proteins - Albumin, Casein, Peptone

II. Quantitative Analysis of Biomolecules

- a) Glucose - Anthrone Method
- b) Protein - Biuret method
- c) Cholesterol - Zak's method
- d) DNA - Diphenyl Amine Method

III. Webpage creation using HTML & CSS

- IV. C programs to represent
 - a. Basic Variable usage & I/O
 - b. Decision Making
 - c. Loops & Branching



- d. Array Operations
 - e. String Manipulations
 - f. File Operations
 - g. Usage of Structures
- V. Introduction to Primary Sequence Databases & PDB



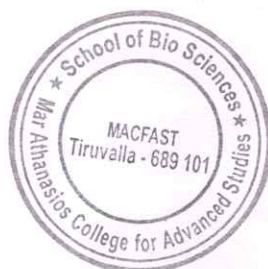
SCHOOL OF BIOSCIENCES


Names of the students studied course on experiential learning (2020-21)

Programme: M. Sc. Bioinformatics
Course: BT010305 LABORATORY COURSE III

M. Sc. Bioinformatics (2019-21 batch)

Sl No.	ROLL No.	NAME OF STUDENT
1.	190011008010	ANZIA AZEEZ
2.	190011008011	BRIDGET JOSE
3.	190011008012	DIVYA SARA VARGHESE
4.	190011008013	GEETHU .E.G
5.	190011008014	JEMY MERIN JOSE
6.	190011008015	KRISHNAPRIYA H
7.	190011008016	LEVIN JOHN
8.	190011008017	MARGARET K SAMUEL
9.	190011008018	MEENU MADHU
10.	190011008019	REHMA HANIF
11.	190011008020	SAJITH S NAIR
12.	190011008021	SISIRA PRASAD
13.	190011008022	SONET D THOMAS
14.	190011008023	THERESA GEORGE




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Multiple commands as a shell script simple shell script creation and execution. Variables: System variables and User defined variables, read values to variables, Mathematic and String handling. Decisions and loopings: if, for and while loops, case statement;

References:

1. Chemoinformatics: A Textbook by Johann Gasteiger.
2. Bioinformatics second edition by Devid M mount
3. Essential Bioinformatics by Jin Xiong
4. Bioinformatics: Concepts, Skills & Applications By R.S. Rastogi
5. Operating System - Linux, NUT Press, PHI Publisher,
6. Red Hat Linux Bible, Christopher Negus, Wiley Dreamtech India
7. UNIX Shell Programming by Yeswant Kanetkar,
8. BPB Linux Administration Handbook, Evi Nemeth, Garth Snyder, Trent K Hein - Pearson Education.
9. Beginning Linux Programming by Neil Mathew & Richard Stones, Wiley Dreamtech India

BT010305 LABORATORY COURSE III

Immunology

Agglutination Reaction-ABO Blood Grops and Rh Typing

Immuno Diffusion Assays-Single radial Immuno Diffusion assay (Mancini Technique) Double diffusion Immuno assay (Ouchterlony Technique)

ELISA Tests

WIDAL and VDRL slide tests for Diagnosis of Typhoid and syphilis respectively

Linux & Shell Programming

1. Basic Linux Commands
2. Basic Shell Programming
3. SQL Commands & PL/SQL Programming
4. Database creation using php-mysql
5. Proteomics Tools - Any five



SCHOOL OF BIOSCIENCES

Names of the students studied course on experiential learning (2020-21)

Programme: M. Sc. Bioinformatics
Course: BT010402 Research Project & dissertation

M. Sc. Bioinformatics (2019-21 batch)

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7.	190011008016	LEVIN JOHN
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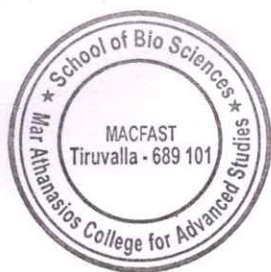



Head, School of Bio Sciences
Mar Athanasios College for Advanced Studies
(MACFAST)
Tiruvalla-689 101
Kerala, India

M.Sc. BIOINFORMATICS

**PROGRAM STRUCTURE AND SYLLABUS
2019-20 ADMISSIONS ONWARDS**

(UNDER MAHATMA GANDHI UNIVERSITY PGCSS REGULATIONS 2019)



MAHATMA GANDHI UNIVERSITY

2019

Course Code	Title of the Course	Type of the Course	Hours per week	Credits	Total Credits
FOURTH SEMESTER					
BT800401	Electives Group A	Genetic engineering & IPR	Elective	5	4
BT800402		Bio programming	Elective	5	4
BT800403		Data Mining in Bioinformatics	Elective	5	4
BT810401	Electives Group B	Java programming	Elective	5	4
BT810402		Advanced genomics	Elective	5	4
BT810403		Research Methodology & Scientific Writing	Elective	5	4
BT820401	Electives Group C	Basics of Nanotechnology	Elective	5	4
BT820402		Pharmaceutical chemistry & action of Selected drugs	Elective	5	4
BT820403		Bioinformatics data analysis	Elective	5	4
BT010401	Laboratory course IV	Practical	10	4	23
BT010402	<u>Research Project & dissertation</u>			5	
BT010403	Comprehensive Viva-Voce			2	

