
	ZEAL EDUCATION SOCIETY'S <b>ZEAL INSTITUTE OF BUSINESS ADMINISTRATION,          COMPUTER APPLICATION AND RESEARCH (ZIBACAR)</b> NARHE   PUNE -41   INDIA <b>Programme – MBA &amp; MCA</b>	
Revision: 00		Date:01/09/2023

## CRITERION 2 – Teaching-Learning and Evaluation

### Key Indicator- 2.6 Student Performance and Learning Outcomes

**2.6.1 - Programme and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

#### Documents Uploaded

Sr. No.	Particulars
1.	Student Handbook
2.	Course File
3.	Newsletter
4.	Institute ERP
5.	Institute Website
6.	Outcome based Education (OBE) Manual
7.	Notice Board

## Programme Educational Objectives (PEOs):

1. **PE01:** Graduates of the MBA program will successfully integrate core, cross-functional and inter-disciplinary aspects of management theories, models and frameworks with the real world practices and the sector specific nuances to provide solutions to real world business, policy and social issues in a dynamic and complex world.
2. **PE02 :** Graduates of the MBA program will possess excellent communication skills, excel in cross-functional, multi-disciplinary, multi-cultural teams, and have an appreciation for local, domestic and global contexts so as to manage continuity, change, risk, ambiguity and complexity.
3. **PE03 :** Graduates of the MBA program will be appreciative of the significance of Indian ethos and values in managerial decision making and exhibit value centered leadership.
4. **PE04 :** Graduates of the MBA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning.
5. **PE05 :** Graduates of the MBA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents.

## Programme Outcomes MBA (POs)

At the end of the MBA programme the learner will possess the

1. **Generic and Domain Knowledge** - Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
2. **Problem Solving & Innovation** - Ability to identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
3. **Critical Thinking** - Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
4. **Effective Communication** - Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
5. **Leadership and Team Work** - Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
6. **Global Orientation and Cross** - Cultural Appreciation: Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management

7. **Entrepreneurship** - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
8. **Environment and Sustain ability** - Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects.
9. **Social Responsiveness and Ethics** - Ability to exhibit a broad appreciation of the ethical and value under pinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.
10. **Life Long Learning** – Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.

*Whether you think you can or you can't, you're right  
-Henry Ford*

## MASTER OF COMPUTER APPLICATION (MCA) PROGRAMME

**Intake : 60**



### NATURE OF THE PROGRAMME

MCA Course is 2 Year full time 4 Semester CBCGS program to be eligible for award of MCA degree.

#### Program Educational Objectives (PEOs)

**PE01** : Graduate of MCA program will acquire in-depth knowledge of fundamental concepts, programming skills, analysis, design, Communication skills and development of innovative IT products to meet the industry needs for competitive edge of Indian and global companies.

**PE02** : Graduate of MCA program will apply contemporary tools and technologies to create systems for solving industrial, social or environment oriented problems by improving the ability among the graduates to implement innovative and creative ideas by using technical concepts as well as promote managerial skills and entrepreneur sprit.

**PE03** : Graduates of the MCA program will be appreciative of the significance of Indian ethos and values in managerial decision making.

**PE04** : Graduates of the MCA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning

**PE05** : Graduates of the MCA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents.

## Programme Outcomes (POs)

At the end of the MCA programme, the learner will possess the following Program Outcomes:

**PO1:** Generic and Domain Knowledge: Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.

**PO2:** Problem Analysis: Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.

**PO3:** Design /Development of Solutions: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

**PO4:** Critical thinking/ conduct investigations of complex Computing problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

**PO5:** Use of modern tools: Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.

**PO6:** Ethics: Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.

**PO7:** Life-long Learning: Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.

**PO8:** Leadership skills: Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO9:** Effective Communication: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

**PO10:** Societal and Environmental aspect: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

**PO11:** Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

**PO12:** Entrepreneurship and Innovation: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.



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**ZEAL INSTITUTE OF BUSINESS ADMINISTRATION,  
 COMPUTER APPLICATION AND RESEARCH (ZIBACAR)**  
 NARHE | PUNE-41 | INDIA  
**Programme – MBA & MCA**



Doc No- ZEAL/ZB/ACAD/P-05/T-4

Revision: 00

Date 01/09/2023

### COURSE FILE INDEX

Academic Year:	2023-24	Course Coordinator Name:	Kirti Sonnik
Programme:	MCA	Course Code:	IT-22
Class & Div:	MCA-J	Course Name:	Software Project Mgmt
Semester:	II	Specialization:	NA-

Sr. No.	Details of the Documents	Doc. Y/N - Check by Academic Head	Doc. Y/N - Check by Director
1.	One Page Report	Yes	}
2.	Vision & Mission of the Institute	Yes	
3.	Vision & Mission of the Department	Yes	
4.	Institute Academic Calendar	Yes	
5.	Department Academic Calendar	Yes	
6.	University Syllabus Copy of the Course	Yes	
7.	Programme Outcomes(POs)	Yes	
8.	Programme Specific Outcomes(PSOs)	Yes	
9.	Programme Educational Objective(PEOs)	Yes	
10.	CO, PO and PSO Mapping	Yes	
11.	Class Time Table	Yes	
12.	Individual Time Table	Yes	
13.	Course Plan	Yes	
14.	<b>Teaching Material</b>		
	i. Unit wise Notes	Yes	}
	ii. Unit wise PPTs	Yes	
	iii. List of Online Resources (web link / MOOC)	Yes	
	iv. Innovative Teaching and Learning Methodology/ Material	Yes	
	v. Content Beyond Syllabus	Yes	
	vi. SPPU Exam Question Papers	Yes	
	vii. Question Bank (with Bloom's Taxonomy)	Yes	
15.	Library Activity	Yes	
16.	<b>Concurrent Internal Evaluation</b>		
	i. CIE Summary Sheet	Yes	
	ii. CIE Schedule	Yes	
	iii. CIE Plan	Yes	



## MCA Department

### PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)


**PEO1 :** Graduate of MCA program will acquire in-depth knowledge of fundamental concepts, programming skills, analysis, design, Communication skills and development of innovative IT products to meet the industry needs for competitive edge of Indian and global companies.

**PEO2:** Graduate of MCA program will apply contemporary tools and technologies to create systems for solving industrial, social or environment oriented problems by improving the ability among the graduates to implement innovative and creative ideas by using technical concepts as well as promote managerial skills and entrepreneur spirit.

**PEO3:** Graduates of the MCA program will be appreciative of the significance of Indian ethos and values in managerial decision making.

**PEO4:** Graduates of the MCA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning



**PEO5:** Graduates of the MCA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents.

  
Programme Coordinator

  
Academic Head

  
Director

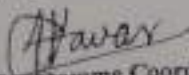


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	Revision: 00	

**Academic Year : 2023-24**

**Programme : MCA**  
**Programme Outcomes**



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- PO6: Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
- PO7: Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.
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Doc No:- ZEAL/ZB/ACAD/P-05/F-13	Revision: 00	Date: 01/09/2023

### PROGRAMME SPECIFIC OUTCOMES (PSOs)

Program Specific Outcomes or PSOs are abilities that a MCA Programme professionals should have after successful completion of the programme.

Following PSOs have been defined:

A graduate will have

1. An ability to apply knowledge of mathematics and computer science to solve business problems by use of computer technology.
2. An ability to develop computer code, analyse and interpret data, for reducing the error in decision making.
3. An ability to design user friendly system, or process to meet desired need within realistic economic, environmental, social, ethical, health and safety, constraints.
4. An ability to perform in multidisciplinary teams, and interact with various domain experts.
5. An ability to communicate effectively.

  
Programme Coordinator

  
Academic Head

  
Director







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Dec-2023

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**ZEAL INSTITUTE OF BUSINESS ADMINISTRATION,  
COMPUTER APPLICATION & RESEARCH**

## **Programme Outcomes (Pos): At the end of the MBA programme the learner will possess the**

1. Generic and Domain Knowledge - Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
2. Problem Solving & Innovation - Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
3. Critical Thinking - Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
4. Effective Communication - Ability to effectively communicate in cross- cultural settings, in technology mediated environments, especially in the business context and with society at large
5. Leadership and Team Work - Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
6. Global Orientation and Cross-Cultural Appreciation: Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
7. Entrepreneurship - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
8. Environment and Sustainability - Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects.
9. Social Responsiveness and Ethics - Ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross- cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.
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## **Programme Outcomes (Pos): At the end of the MCA programme the learner will possess the**

PO1 : Generic and Domain Knowledge - Apply knowledge of computing fundamentals and domain knowledge to find the solutions of real-world complex problems

PO2 : Modern Tool Usage - Create, identify and apply appropriate techniques, resources, and modern computing tools to complex computing activities

PO3 : Problem Solving - Design and evaluate solutions for complex business, social and environmental issues and society at large.

PO4 : Effective Communication - Ability to effectively communicate in cross-cultural settings, in technology mediated environments, with the computing community, and with society.

PO5 : Professional Ethics - Understand and commit to professional ethics and cyber regulations for professional computing practices.

PO6 : Global Orientation and Cross-Cultural Appreciation - Ability to approach any relevant technical issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of technology and management.

PO7 : Innovation and Entrepreneurship - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills using innovation to pursue that opportunity

PO8 : Environment and Sustainability - Ability to demonstrate knowledge of and need for sustainable development and assess the impact of technology on the societal, economic and environmental aspects.

PO9 : Social Responsiveness - Ability to understand professional, ethical, legal, security and social issues and responsibilities. An ability to communicate effectively with a range of audiences.

PO10: Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

PO11: Leadership skills: Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Lifelong Learning - Ability to always operate independently in new environment, acquire new knowledge and skills and perform in the internalized knowledge and skills

## **Program Educational Objectives (PEOs)**

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## Teaching Plan

Department : MCA

Academic Year : 2023-24

Semester : 2

Batch : -1

Division : A

Subject : IT22 : Software Project Management

Year : FY

Date :

Teaching Scheme :-

Theory/Week : 3

Name : Kirti Sarant

Examination Scheme :-

Lecture No	Contents to be covered	Content Delivery Methods (CDM) used	COs Mapping to the Contents	Proposed Date	Conducted Date
1	1.2 Project management life cycle-ITIL Life Cycle 1.1 Overview of project Management	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-04	2024-01-04
2	1.3 Project Management Process, 1.4 Role of Project Manager	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-06	2024-01-06
3	1.5 Quality Metrics	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-09	2024-01-09
4	1.6 Risk Management Process (Case Study Based)	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-11	2024-01-11
5	1.6.1 Risk Identification, 1.6.2 Risk Analysis 1.6.3 Risk Mitigation 1.6.4 RiskW 17 hands on MS Project Tool/indash	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-13	2024-01-13
6	Resource Allocation, Scheduling, Gantt chart	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-15	2024-01-15
7	2.1 Different methods of Cost estimation	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-17	2024-01-17
8	2.1.1 COCOMO-I &	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-18	2024-01-18
9	E model (Problem Statement)	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-20	2024-01-20
10	2.1.2 Delphi cost estimation	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-23	2024-01-23
11	2.2 Function Point Analysis (Problem Statement)	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-24	2024-01-24
12	2.3 The SEI Capability Maturity Model CMM	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-01-27	2024-01-27
13	2.4 Software Configuration management	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-01-27	2024-01-27
14	3.1 Introduction and Definition Agile, Agile Project Life Cycle, 3.2 Agile Manifesto: History of Agile and Agile Principles.	Presentation	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-29	2024-01-29
15	3.3 Key Agile Concepts	Hands On	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-30	2024-01-30
16	3.3.1 User stories, Story points	Hands On	Understand the process of Software Project Management Framework and Apply estimation techniques.	2024-01-30	2024-01-30
17	3.3.2 Product Backlog	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-01-31	2024-01-31
18	3.3.3 Sprint Backlog	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-02-05	2024-02-05
19	3.3.4 Sprint Velocity	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-05	2024-02-05



Lecture No	Contents to be covered	Content Delivery Methods (CDM) used	COs Mapping to the Contents	Proposed Date	Conduct Date
20	3.3.5 Swim lanes	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-02-06	2024-02-06
21	3.3.6 Minimum Viable Product (MVP)	Presentation	Learn the philosophy, principles and lifecycle of an agile project.	2024-02-07	2024-02-07
22	3.3.7 Version and Release	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-09	2024-02-09
23	CR-I	Presentation	Understand the process of Software Project Management framework and Apply estimation techniques. Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-12	2024-02-12
24	3.4 Agile Project Management v/s Traditional Project Management	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-11	2024-02-11
25	4.2 Value-Driven Development, 4.3 Dynamic System Development Method	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-14	2024-02-14
26	4.3 Teams and roles of an Agile Team	Presentation, Hands On	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-15	2024-02-15
27	4.3.1 Scrum Master	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-17	2024-02-17
28	4.3.3 Development Team, 4.3.2 Product Owner	Presentation	Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule.	2024-02-17	2024-02-17
29	4.4 Product Vision and Product Roadmap	Presentation	Explain Project tracking and interpretation of Progress Report.	2024-02-22	2024-02-22
30	4.6 Introduction to User Stories, 4.5 Project Objective and Key Metrics	Presentation	Explain Project Tracking and interpretation of Progress Report.	2024-02-27	2024-02-27
31	4.7 Estimate the Product Backlog	Presentation	Explain Project Tracking and interpretation of Progress Report.	2024-03-28	2024-03-28
32	4.10 Product Prioritization	Presentation	Explain Project Tracking and interpretation of Progress Report.	2024-03-14	2024-03-14
33	5.2 Plan and Execute Iteration, 5.1 Introduction	Presentation	Analyze Problem statement and evaluate User Stories.	2024-03-16	2024-03-16
34	5.3 Facilitate Retrospective, Making Team Decisions and Closing out Retrospective	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-20	2024-03-20
35	5.4 Agile Reports	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-25	2024-03-25
36	5.4.1 Daily Reports	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-26	2024-03-26
37	5.4.2 Sprint Burn-down Chart and Reports	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-27	2024-03-27
38	5.5 Benefits of Agile Project Management	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-29	2024-03-29
39	6.1 Introduction of Agile Tools, 6.2 Hands on GitHub, 6.2.1 Create Project using Kanban	Presentation, Hands On	Analyze Problem statement and evaluate User Stories.	2024-03-29	2024-03-29
40	6.2.3 Continuous Integration, 6.2.2 Project Repositories, 6.2.4 Project Backlog	Presentation	Explain Project Tracking and interpretation of Progress Report, Analyze Problem statement and evaluate User Stories.	2024-03-30	2024-03-30



Lecture	Contents to be covered	Content Delivery Methods(CDM) used	COs Mapping to the Contents	Proposed Date	Conducted Date
	6.2.6 Progress Tracking 6.2.5 Team Management 6.2.7 Releases	Presentation	Analyze Problem statement and evaluate User Stories	2024-03-30	2024-03-30
42	6.3.1 Designing Product Vision, Product Backlog, 6.3.2 Sprint Backlog, Estimate Story Points, 6.3 Implementation of Problem statement with Agile Tools- GitHub	Presentation	Explain Project Tracking and Interpretation of Progress Report, Analyze Problem statement and evaluate User Stories	2024-04-01	2024-04-01
43	6.3.3 Iteration Release	Presentation	Analyze Problem statement and evaluate User Stories	2024-04-01	2024-04-01
44	4.9 Plan Product Releases, 4.8 Techniques for estimating Story Points	Presentation	Explain Project Tracking and Interpretation of Progress Report	2024-03-12	NA

**Summary**

Unit No.	Title	Total No. of Lectures	Planned date of Completion	Actual date of Completion
1	1 Linear Project Management Framework	6	16-01-2024	16-01-2024
2	2 Linear Software Project Estimation	7	27-01-2024	27-01-2024
3	3 Agile Project Management Framework	10	13-02-2024	13-02-2024
4	4 Agile Teams, Size and Schedule	9	28-02-2024	
5	5 Tracking Agile Project and Reports	6	29-03-2024	29-03-2024
6	6. Implementation with Agile Tools	5	01-04-2024	01-04-2024

*K. Kamal*  
Course Teacher

*K. Kamal*  
Academic Coordinator

*A. Havan*  
Head of the Department/  
Program Coordinator





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 NARHE | PUNE -41 | INDIA  
**Programme – MBA & MCA**



Revision: 00

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## COs, PEOs, POs and PSOs displayed on website

### MBA

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- 1. Generic and Domain Knowledge -**  
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- 2. Problem Solving & Innovation -**  
 Ability to identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
- 3. Critical Thinking -**  
 Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions.
- 4. Effective Communication -**

### MCA

**MCA Programme Outcomes (POs): At the end of the MCA Programme the learner will possess the following Program Outcome:**

Programme Outcomes Graduates Attributes (GAs) form a set of individually assessable outcomes that are the components indicative of the graduates potential to acquire competence to practice at the appropriate level. The GAs of PG programmes are examples of the attributes expected from a graduate of an accredited programme.

- PO1: Generic and Domain Knowledge:**  
 Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialisation to the abstraction and conceptualization of computing models from defined problems and requirements.
- PO2: Problem Analysis:**  
 Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
- PO3: Design /Development of Solutions:**



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**ZEAL INSTITUTE OF BUSINESS ADMINISTRATION,  
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**OUTCOME BASED**  
**EDUCATION**  
**MANUAL**



# STATEMENTS OF PEOs, POs, PSOs, AND COs

## Program Educational Outcomes (PEOs) - MBA

PEO#	PEO	Mapping with Vision	Mapping with Mission
1	Graduates of the MBA program will successfully integrate core, cross-functional and inter-disciplinary aspects of management theories, models and frameworks with the real world practices and the sector specific nuances to provide solutions to real world business, policy and social issues in a dynamic and complex world.	Student Centric	Employability Quotient
2	Graduates of the MBA program will possess excellent communication skills, excel in cross-functional, multi-disciplinary, multi-cultural teams, and have an appreciation for local, domestic and global contexts so as to manage continuity, change, risk, ambiguity and complexity.	Value-Based	Sustainable Development
3	Graduates of the MBA program will be appreciative of the significance of Indian ethos and values in managerial decision making and exhibit value centered leadership.	Quality Education	Business Management Education
4	Graduates of the MBA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in lifelong learning.	Sustainable Holistic Growth	Inculcate Entrepreneurial Culture
5	Graduates of the MBA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents.	Empowering Professionals	Holistic Growth

# STATEMENTS OF PEOs, POs, PSOs, AND COs

## Program Outcomes (POs) -MBA

PO No.	Program Outcome	Theory
1	Generic and Domain Knowledge	Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
2	Problemsolving and Innovation	Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
3	Critical Thinking	Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions.
4	Effective Communication	Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large.
5	Leadership and Teamwork	Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all Stakeholders.
6	Global Orientation and Cross-Cultural Appreciation	Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
7	Entrepreneurship	Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
8	Environment and Sustainability	Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects
9	Social Responsiveness and Ethics	Ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.
10	Life-Long Learning	Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.

# STATEMENTS OF PEOs, POs, PSOs, AND COs

## Program Outcomes (POs) -MCA

PO No.	Program Outcome	Theory
1	Generic and Domain Knowledge	Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
2	Problem solving	Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
3	Design /Development of Solutions	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
4	Critical thinking/ condu investigations of complex Computing problems	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
5	Use of modern tools	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
6	Ethics	Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
7	Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.
8	Leadership skills	Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
9	Effective Communication	Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
10	Societal and Environmental aspect	Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the Consequential responsibilities relevant to professional computing practice.
11	Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary environments.
12	Entrepreneurship and Innovation	Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

# STATEMENTS OF PEOs, POs, PSOs, AND COs

## Program Specific Outcomes (PSOs)

### List of Specializations

PO No.	Specialization	Abbreviation	Major/ Minor
1	Marketing Management	MKT	Major
2	Financial Management	FIN	
3	Human Resource Management	HRM	
4	Operations and Supply Chain Management	OSCM	
5	Business Analytics	BA	
6	Rural and Agribusiness Management	RABM	Minor
7	Pharma and Health care Management	PHM	
8	Tourism and Hospitality Management	THM	
9	International Business Management	IBM	

**“Failure will never overtake me if my determination to succeed is strong enough.”  
-Dr APJ Abdul Kalam**

## MCA - PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

**PE01 :** Graduate of MCA program will acquire in-depth knowledge of fundamental concepts, programming skills, analysis, design, Communication skills and development of innovative IT products to meet the industry needs for competitive edge of Indian and global companies.

**PE02 :** Graduate of MCA program will apply contemporary tools and technologies to create systems for solving industrial, social or environment oriented problems by improving the ability among the graduates to implement innovative and creative ideas by using technical concepts as well as promote managerial skills and entrepreneur sprit.

**PE03 :** Graduates of the MCA program will be appreciative of the significance of Indian ethos and values in managerial decision making.

**PE04 :** Graduates of the MCA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning

**PE05 :** Graduates of the MCA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents

## COURSE OUTCOMES

### 206BA : Data Mining

#### Subject Core (SC) Course – Business Analytics

CO#	COGNITIVE ABILITY	COURSE OUTCOMES
CO206BA.1	REMEMBERING	DEFINE the key terms associated with Data Mining
CO206BA.2	UNDERSTANDING	EXPLAIN the various aspects of data
CO206BA.3	APPLYING	APPLY classification models
CO206BA.4	ANALYSING	ANALYSE using clustering models
CO206BA.5	EVALUATING	SELECT appropriate association analysis and anomaly detection tools
CO206BA.6	CREATING	COMBINE various data mining tools and use them in live analytical projects in business scenarios

**Course Name : Advanced DBMS**

**Course Code : IT-24**

**Course Name : Advanced DBMS**

**Course Outcomes :**

Student will be able to

**CO1 :** Describe the core concepts of DBMS and various databases used in real applications (Understand)

**CO2:** Design relational database using E-R model and normalization (Apply)

**CO3:** Demonstrate XML database and nonprocedural structural query languages for data access (Apply)

**CO4:** Explain concepts of Parallel, Distributed and Object-Oriented Databases and their applications (Understand)

**CO5:** Apply transaction management, recovery management, backup and security – privacy concepts for database applications (Apply)

**"Education is one thing no one can take away from you."  
-Dr APJ Abdul Kalam**

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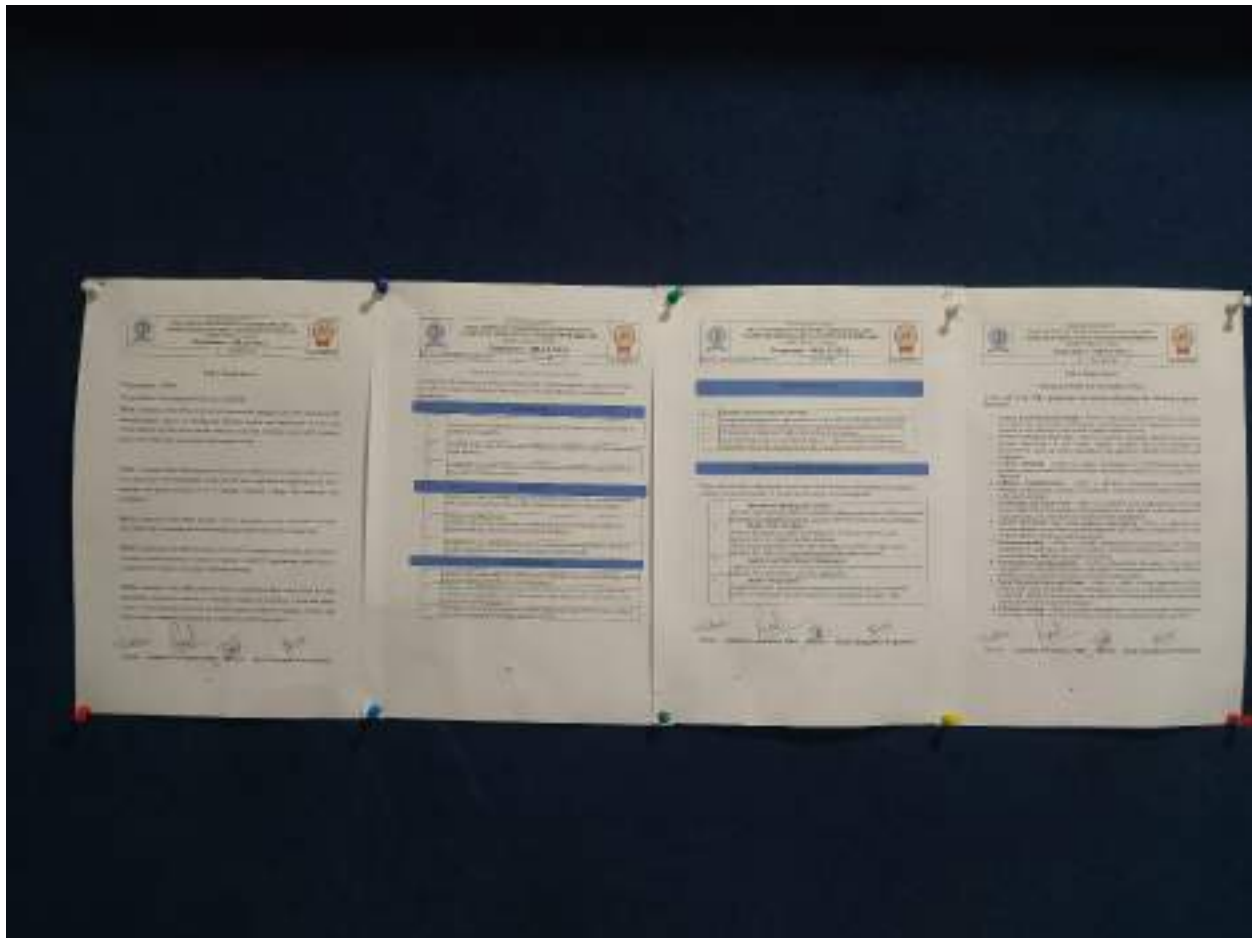


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Date:01/09/2023

**PEOs, POs and PSOs displayed on notice board**

**MBA Notice Board**





# MCA Notice Board

