

**BPHE' Society's**  
**INSTITUTE OF MANAGEMENT STUDIES, CAREER DEVELOPMENT & RESEARCH, AHMEDNAGR**

**EFFECTIVE FROM 12 SEPT 2022**

**ACADEMIC YEAR : 2022-2023**

**SEMESTER : III**

**COURSE: MCA II**

DAY	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00 AM to 10:00 AM	Practical	Practical	Practical	Practical	Practical	Practical
Teacher	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed	Prof. Patil / Prof. Dethle / Dr. Bhakkad / Dr. Sayyed
10:00 AM to 11:00 AM	ST&QA	ST&QA	ST&QA	ST&QA	ST&QA	Open Subject - 6
Teacher	Dr. U.H. Nagarkar	Dr. U.H. Nagarkar	Dr. U.H. Nagarkar	Dr. U.H. Nagarkar	Dr. U.H. Nagarkar	Dr. M.I. Sayyed
<b>BREAK</b>						
11:15 AM to 12:15 PM	Open Subject - 6	Open Subject - 6	Open Subject - 6	MAD	MAD	MAD
Teacher	Dr. M.I. Sayyed	Dr. M.I. Sayyed	Dr. M.I. Sayyed	Prof. Ms. G.A. Patil	Prof. Ms. G.A. Patil	Prof. Ms. G.A. Patil
12:15 PM to 1:15 PM	MAD	MAD	Open Subject - 5	Open Subject - 5	Open Subject - 5	Open Subject - 5
Teacher	Prof. Ms. G.A. Patil	Prof. Ms. G.A. Patil	Dr. S.P. Bhakkad	Dr. S.P. Bhakkad	Dr. S.P. Bhakkad	Dr. S.P. Bhakkad
<b>LUNCH BREAK</b>						
1:45 PM to 2:30 PM	DW&DM	DW&DM	DW&DM	DW&DM	DW&DM	Soft Skill - III
Teacher	Dr. Ms. S.B. Phunde	Dr. Ms. S.B. Phunde	Dr. Ms. S.B. Phunde	Dr. Ms. S.B. Phunde	Dr. Ms. S.B. Phunde	Dr. Ms. M.R. Godbole
2:30:00 PM to 3:15 PM	Elective Subject	Elective Subject	Elective Subject	Elective Subject	Cyber Security - III	Soft Skill - III
Teacher	Dr. Vaidya / Prof. Sapa / Dr. Godbole	Dr. Vaidya / Prof. Sapa / Dr. Godbole	Dr. Vaidya / Prof. Sapa / Dr. Godbole	Dr. Vaidya / Prof. Sapa / Dr. Godbole	Dr. M.P. Potadar	Dr. Ms. M.R. Godbole
3:15 PM to 4:00 PM	KR&AI	KR&AI	KR&AI	KR&AI	KR&AI	Skill Dev - I
Teacher	Prof. Ms. U.R. Dethle	Prof. Ms. U.R. Dethle	Prof. Ms. U.R. Dethle	Prof. Ms. U.R. Dethle	Prof. Ms. U.R. Dethle	Dr. M.P. Potadar
<b>BREAK</b>						
4:15 PM to 5:00 PM	Cloud Computing	Cloud Computing	Cloud Computing	Cloud Computing	Cloud Computing	Cloud Computing
Teacher	Dr. M.P. Potadar	Dr. M.P. Potadar	Dr. M.P. Potadar	Dr. M.P. Potadar	Dr. M.P. Potadar	Dr. M.P. Potadar

*Sphunde*

Dr. U.H. Nagarkar

Academic Co-Ordinator

*Phunde*

Dr. U.H. Nagarkar

Head IT Dept (Signature & Date)

*Mehra*

Dr. M.B. Mehta

Director (Signature & Date)

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**INSTITUTE OF MANAGEMENT STUDIES, CAREER DEVELOPMENT & RESEARCH, AHMEDNAGR**

TIME TABLE COURSE: MCA II SEMESTER : IV ACADEMIC YEAR : 2022-2023 EFFECTIVE FROM 16 January 2023					
DAY TIME	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 AM to 10:00 AM	Elective	Elective	Elective	Elective	Elective
Teacher	Dr.Bhakkad/DrMs.Vaidya /Prof.Ms.Sapa/Prof.Ms.Patil	Dr.Bhakkad/DrMs.Vaidya /Prof.Ms.Sapa/Prof.Ms.Patil	Dr.Bhakkad/DrMs.Vaidya /Prof.Ms.Sapa/Prof.Ms.Patil	Dr.Bhakkad/DrMs.Vaidya /Prof.Ms.Sapa/Prof.Ms.Patil	Dr.Bhakkad/DrMs.Vaidya /Prof.Ms.Sapa/Prof.Ms.Patil
10:00 AM to 11:00 AM	PPMOB	PPMOB	PPMOB	PPMOB	PPMOB
Teacher	Dr.U.H.Nagarkar	Dr.U.H.Nagarkar	Dr.U.H.Nagarkar	Dr.U.H.Nagarkar	Dr.U.H.Nagarkar
<b>Break</b>					
11:15 AM to 12:15 AM	DevOps	DevOps	DevOps	DevOps	DevOps
Teacher	Dr.Ms.S.B.Phunde	Dr.Ms.S.B.Phunde	Dr.Ms.S.B.Phunde	Dr.Ms.S.B.Phunde	Dr.Ms.S.B.Phunde
12:15 AM to 1:15 AM	Cyber Security IV	Skill Development II			
Teacher	Dr.M.P.Potadar	Dr.M.P.Potadar			

*Sphunde*

**Dr.Ms.S.B.Phunde**  
**Academic Co-Ordinator**

*Uj*

**Dr.U.H.Nagarkar**  
**Head IT Dept (Signature & Date)**

*mehta*

**Dr.M.B.Mehta**  
**Director (Signature & Date)**





39	30/11/2022	Implementation of Linear Regression	Lecture	30/11/2022	No students
40	1/12/2022	Implementation of Linear Regression	Lecture	1/12/2022	No students
Prepared By:		<i>S. Sapa</i> 9.1.2023	Approved by	<i>OHJ</i>	Total number of lectures engaged : 29
Subject Teacher		Supriya Sapa	Sign of Head of the Department		
			Dr. U. H. Nagarkar		

**Institute of Management Studies, Career Development and Research, Ahmednagar**

**Information Technology Department**

**Teaching & Evaluation Plan**

Academic Year : 2022-2023      Class : MCA-II      Semester IV

**Subject Advisory Committee :**

1	Yogesh Bhadane- Nagar Collge
2	Godbole Madhuri
3	
4	
5	

**Subject Name:** Elective-ML, Adv R  
**Name of Subject Teacher/s :**  
Supriya Sapa

**References (Text Books/Reference books/Websites/e-books)**

1	Statistics Using R, Narosa Publishing house- Purohit, Gore, Deshmukh
2	ML-Vision-Nandgude, Ponde
3	Statistical Computing Using R- Nirali-Pawgi
4	ML in Data Science using Python -Dr R Nageswara Rao
5	Introduction to Data Science Practical Approach with R and Python-

**Course Objective :**

1	To understand the basic
2	To study different learning
3	
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**Teaching Padagogy :**

Online lecture through Google meet, PPT, RStudio S/W

**Evaluation Method**

Internal Exam, Test & Tutorials

**Subject Delivery Schedule**

Lect No	Planned Date	Topics, assignments, tests, tutorials, case studies, guest lectures, seminars	Teaching method	Lect No	Actual Date	Topic covered
1	7/2/2023	Introduction to the subject	Lecture	1	7/2/2023	Introduction to the subject
2	13/2/1023	Data Visualization	Lecture	2	13/2/1023	Data Visualization-packages installation

3	15/2/1023	Data Visualization- packages installation				14/2/1023	NO LECTURE	
4	16/2/1023	Bar Chart - Single variable		Lecture	3	15/2/1023	Bar Chart - Single variable	
5	17/2/1023	Stacked Bar Chart- multiple variables		Lecture	4	16/2/1023	Stacked Bar Chart- multiple variables	
6	20/2/2023	Box Plot-single variable		Lecture	5	17/2/1023	Box Plot-single variable	
7	21/2/2023	Box Plot-Multiple variable		Lecture	6	20/2/2023	Box Plot-Multiple variable	
8	22/2/2023	Pie Chart		Lecture	7	21/2/2023	Pie Chart	
9	23/2/2023	Pie Chart		Lecture	8	22/2/2023	Histogram	
10	24/2/2023	Histogram		Lecture	9	23/2/2023	Histogram with breaks	
11	27/2/2023	Histogram with breaks		Lecture	10	24/2/2023	Line graph	
12	28/2/2023	Line graph		Lecture	11	27/2/2023	multiple lines in line chart	
13	01-03- 2023	multiple lines in line chart				28/2/2023	NO LECTURE	
14	02-03- 2023	ScatterPlot		Lecture	12	01-03- 2023	ScatterPlot	
15	03-03- 2023	Frequency distribution-cumulative,relative		Lecture	13	02-03- 2023	Frequency distribution-cumulative,relative	
16	06-03- 2023	examples on cumulative and relative		Lecture	14	03-03- 2023	examples on cumulative and relative	
17	07-03- 2023	Frequency table in R				06-03- 2023	CL	
18	08-03- 2023	Simple Linear Regression				07-03- 2023	CL	
19	09-03- 2023	Correlation Analysis				08-03- 2023	CL	
20	10-03- 2023	Linear Regression Diagnostics				09-03- 2023	CL	
21	13-03- 2023	Linear Regression Visualization				10-03- 2023	NO LECTURE	
22	14-03- 2023	Multiple linear regression		Lecture	15	13-03- 2023	Frequency table in R	
23	15-03- 2023	Multiple linear regression		Lecture	16	14-03- 2023	Simple Linear Regression	
24	16-03- 2023	Coefficients significance		Lecture	17	15-03- 2023	Correlation Analysis	
25	17-03- 2023	Coefficients significance		Lecture	18	16-03- 2023	Linear Regression Diagnostics&Visualization	
26	20-03- 2023	Logistic Regression				17-03- 2023	Sir told to take Comp OFF	
27	21-03- 2023	Logistic Regression		Lecture	19	20-03- 2023	Multiple linear regressionCoefficients significance	
28	23-03- 2023	Handling class imbalance		Lecture	20	21-03- 2023	Coefficients significance	
29	24-03- 2023	Handling class imbalance				22-03- 2023	Holiday	
30	27-03- 2023	Confusion Matrix				23-03- 2023	DL	
31	28-03- 2023	Confusion Matrix				24-03- 2023	DL	
32	29-03- 2023	Precision, Recall and F1 Score		Lecture	21	27-03- 2023	Logistic Regression	
33	30-03- 2023	Precision, Recall and F1 Score		Lecture	22	28-03- 2023	Handling class imbalance	
34	31-03- 2023	Unsupervised ML Algorithm		Lecture	23	29-03- 2023	Confusion Matrix	
35	03-04-2023	Clustering Algorithm		Lecture	24	30-03- 2023	Precision, Recall and F1 Score	

