### FATIMA COLLEGE (AUTONOMOUS)



Re-Accredited with "A++" Grade by NAAC (4th Cycle)
Maryland, Madurai- 625 018, Tamil Nadu, India

NAME OF THE DEPARTMENT : PG DEPARTMENT OF

**COMPUTER APPLICATIONS** 

NAME OF THE PROGRAMME : MCA

PROGRAMME CODE : MCA

ACADEMIC YEAR : 2021-2022

# FATIMA COLLEGE (AUTO NOMOUS), MADURAI

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MIMMES				

Name of the Department: PG Department of Computer - Application

To be implemented from: 2021 - 2022 onwards Google Meet Link: meet.google.com/tre-ikgo-wyt Convened on: 12.04.2021 Venue

Department of MCA Fatima College, Madurai Convened at

# Members Present

		TION!
S.NO.	NAME	DESIGNATION
1.	Dr. D. JeyaMala	Director
2-	Ms.S. Mary Helan Felista	Head of the Department
3.	Dr. Sivakumar	Head of the Department University Nominee
	Principal & Assoc. Professor	U (a)
8	CPA College	
	Dr. Chandrasekaran	Subject Expert
4.	Dr. Charlarasentes	
	Director, Dept. of MCA	
	Mepco Schlenk Engg. College	
	Sivakasi	01:15
5.	Dr. Meenakshi. A	Subject Expert
	Head & Assoc. Professor	
	Dont of CSF	
	Kamaraj College of Engg. Liech Virudhunagar	
	Vizidhunagas	
1	Mr. Manikumas	Industrialist
6.		- HOIOIS IN CONSC
	Senior Software Developer	
	Exicsson India Global RH. LH	
	Chennai	

S.NO.	NAME	DESIGNATION
7.	Ms. R.G. Sobitha	Alumna
	Business Manager	A KARA
3	BStlech, Madysai	337.000
8.	Ms. Mable Jasmine Shopha	Dean of Academic Affairs
9.	Ms. R. Smeeta Mary	Staff Member
10.	Ms. S. JebaBiya	Staff Member
11.	Ms.B. Usha	Staff Member
12.	Ms. S. Selvarani	Staff Member
13.	Ms. P. Nancy Vincentina Mary	Staff Member
	0	00

### ACTION TAKEN REPORT FOR 2020 -2021

S. No Common Suggestions	Action Taken for the
5. No Common Suggestions offered in the previous	academic year 2020 - 2021
Board	U
1. Bridge Course on	Bridge course was designed
basic concepts to	for a period of 15 days to
be offered	cover the basic concepts in
00	the following topics
	i) Programming in C
	ii) Object Oriented Programming in Ctt
	iii) Relational Database Management
A CONTRACTOR OF THE CONTRACTOR	iv) Computer Networks
	V) Communicative English.
2. Programme to focus	> Internship during summeris mandated
	Real time mini project to be done in
	Semester III
	Final project to be done in
	real time environment with
	internship.

	1	NEW COUR	کری 3	ES	IN	TR/	DUC	CE	D	110
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> NO.	Code.	Course Title	L	R	N	G	EMP	ENT	(C)	Introducti
1.	20MCA302	Software Quality				G			~	Caseer opposion
		& Testing					2			in testing are
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2.	20MCA401	LabVII- UIX				G	~			Perk up the
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		0 0	1 2				1,0			employability
3.	20MCPADD2	Data Analytics				GI			V	Specialization
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4-		BusinessAnalytics	15A		- 15	GI			1	Specialization
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		U								Analytics Doma
5.		Wireless Commo	i ày	3		G	200	, ,	1	Specialization
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7.	20MCAGEO1	Office Automation	-	× .		G			V	Learning Dome Course offer
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		Course	Units Revised	% of	Need for	Relevance To LRNG	Scope EMP/ENT /SD
1.	9		Unit III - Data	4	Include more of	Global	Emp-
		Development	Pessistence Unit IV -		application development		loya- bility
			Content		towards practical		
			Unit V - Publishing		implementa- ion of	B (2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
			And soid Applications		mobile apps.		
	the l		open Ed referen				2 ,
2	Ravision	of Co		.v.::al	224.45		
		OC RIM	5 5 76 81 11	9 4	914		
	Course	Course	Units Revised	% of Revision	Need for Revision	Relevance To	Scope Emplent 3D
	Course	Course Title Mathemat	Units Revised ical Unit II-		To includ		Scope Emplent 3D SD
. NO .	Course	Course Title Mathemat	Units Revised ical Unit II- of Graph				

S.NO. Course Course Units // of Revision Revision LLRING EMPLY Revised Revision Revision LLRING Sope Code Title Revised Revision Revision LLRING EMPLY Revision Revision LLRING EMPLY Revision Revision LLRING STORE COMENTAL Unit I - 80 / New Concepts Global EMPLY Readignment on Programming Unit V - 20 / Concepts Global SD in Python Dictionary detailed once the Global SD are more detailed Unit V - Data Modeling Roy. Trobustry Global EMPLY Revision Development of Concepts of Global EMPLY Revision Development Development Development Development Revision Development Development Revision Revision Development Revision Revision Revision Revision Development Revision Rev				. 135 - U	4814	3.54		
2. 20MCA102 Software Unit I - 80% New Concept Global SD 3. 20MCA104 Bogramming Unit V - 20% Concepts Global SD in Python Dictionary are More Unit V - Data Modeling 4. 20MCA302 Software Unit I 80% Industry Global EMP a Elesting Unit V - Distributed SD introduced  5. 20MCA302 Software Unit V - 20% Industry Global EMP a Elesting Unit V - introduced  5. 20MCA304 Enterprise 20% Global EMP Application Development b. 20MCAAMO3 Machine Unit V 20% Tools for Global SD Learning ML included  3. New Course Relevance To Scape Need for Introduced  S.NO. Course Course Relevance To Scape Need for Introduced  5. No Treformation Global Tonformation Technology 21MCA2SI for Management Global Management Global Management Global Management	S-NO.	Course	Course	Units	1.06	Need for	Relevance To	Scope
2. 20MCAID2 Software Unit I - 80% New Concept Global SD 3. 20MCAID4 Bogramming Unit V - 20% Concepts Global SD in Hythorn Dictionary are More detailed Unit V - Data  Woodeling Unit V - Data  Learning Unit V - Dictionary detailed SD  EMP a Global EMP a Oxiented led SD  Enterprise 20% Industry Global EMP a Concepts of Global EMP a Dictionary detailed SD  Enterprise 20% Industry Global EMP and introduced Global EMP and introduced Global EMP application Development Development Development Machine Unit V 20% Tools for Global SD Learning ML included  3. New Course Relevance To Scape Need for Introduced Coate Title LIRING EMP ENTRISD  I. 20 MCA Treformation Global Traformation Technology Components are view and the components are view and the confidence of the System Exsential for many exsential for many system  3. 20 MCA Statistical Global Management Global Management Global Management Reported Passic Content Management Global Management Reported Passic Content Management Global Management Management Global Management Global Management Management Management Management Management Global Management Mana	with all of	8			Revision	Revision	LIRINIG	EMPLENT
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in Hythorn Dictionary detailed  Unit V- Data  Modeling  4. 20MCH3D2 Software Unit T  Quality - Quierted Told SD  E Testing Unit V introduced  5. 20MCH3C4 Enterprise Application Development  B. 20MCHAMOS Machine Unit V 2011 Tools for Global SD  Leasning ML included  3. New Course Course Relevance To Scope Need for Introduced  S.NO. Course Course Relevance To Scope Need for Introduced  1. 20MCH- Information Global V Information Technology 21MCA2SI for Management - ID 01 Technology 22MCH- Content Basic Content - ID 02 Management Global V mgmt. knowledge on and - ID 03 Analytic tools and tools ease out the	3.	20MCP104	Bogrammin	Unit IV -	2011.	Concepts	Global	
Unit V- Data Modeling 4. 20MCH3D2 Software Unit T Guality - ETESting Unit V Distroduced  5. 20MCH3C4 Enterprise Application Development B. 20MCHAMOS Machine Unit V Description Development B. 20MCHAMOS Machine Unit V Description Development Code Title LIRINIGEMPENTRSD  1. 20MCH- Information Global - ID01 Technology 21MCA2SI for Management Content - ID02 Management Global System  3. 20MCH- Statistical Global V Management Color of the Secretary Components are viewed and the System Content - ID02 Management Global Content - ID03 Analytic  LIRINIGEMPENTRSD  Content - Management Global Content - Management Global Content - Management Color of the Colo					· ·			
Modeling 80% Industry Gilobal EMPS Oxiented Tolks  Guality - 8 Testing Unit V introduced Global EMPS Oxiented Tolks  5. 20MCA364 Enterprise 20% Global EMPS Oxiented Tolks  Application Developmen Oxiented Tolks  6. 20MCAAMD3 Machine Unit V 20% Tools for Global SD Leasning ML included  3. New Course Relevance To Scope Need for Introduced Code Title LIRINIGEMPENTRISD  1. 20MCA- Information Global V Information Technology Components are with the product of the surface of the surface of the surface oxiented System System Exsential for many System  3. 20MCA- Statistical Global V knowledge on and TD03 Analytic tools as out the			0	_ 0		detailed		
4. 20MCN302 Software Unit T 80% Industry Global EMP a Guality - a Testing Unit V introduced SD & Testing Unit V introduced Global EMP Application Development & 20% Tools for Global SD Learning Machine Unit V 20% Tools for Global SD Learning ML included SD Learning ML included SD Learning ML included SD Information Technology Code Title LRINGEMPENTRSD  1. 20MCD- Information Global Toformation Technology Components are view 21MCA2SI for Management Global Manag				Data	31 . 57			
4. 20MCN302 Software Unit I 80% Industry Global EMP a Guality - priented Tolls SD a Testing Unit V introduced Global EMP Application Development Bearing Machine Unit V 20% Tools for Global SD Learning ML included SD Learning ML included SD Learning ML included SD Information Technology Code Title LRING EMPENTRSD  1. 20MCA- Information Global Toformation Technology Components are view 21MCA2SI for Management Global Manageme			500° 5	Modeling	11 13 1			
Auality - Oxiented lock SD  £ Testing Unit V introduced  5. 20MCA304 Enterprise 20% Global EMP  Application Development  6. 20MCAAMO3 Machine Unit V 20% Tools for Global SD  Learning ML included  3. New Course Relevance To Scope Need for Introdu  Code Title LIRINIGEMPENTRSD  1. 20MCA- Information Global V Information Techn  - IDO1 Technology Components are vi  21MCA2SI for Management Global Massic Content  - ID 02 Management Global Management Global V mgmt. knowledge  System essential for management Global V knowledge on ause  - ID03 Analytic techs east out the	4.	20MCA302	Software	Unit I	80%	Industry		EMPA
ETESTING UNIT I introduced  5. 20MCH364 Enterprise 20% Global EMP  Application Development  6. 20MCHAMO3 Machine Unit V 20% Tools for Global SD  Learning ML included  S.NO. Course Course Relevance To Scope Need for Introduced  Code Title LIRINIGEMPENTRISD  1. 20MCH- Information Global V Information Technology 21MCA2SI for Management Global V components are vice 22 and Content  - ID 02 Management Global V manner knowledge System  3. 20MCH- Statistical Global V knowledge on and - ID 03 Analytic tools east out the			Quality		. \$ 1.3	oriented look		SD
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3. New Courses Introduced  S.NO. Course Course Relevance To Scope Need for Introduced  Code Title LIRING EMPENTRSD  1. 20 MCA- Information Global Tnformation Technology Components are vice 21MCA2SI for Management for business management Global Management Management Global Management Management Global Management Management Management Management Management Management Global Management Manag	6,	20MCDAMO	3 Machine	Unit V	2011	Tools for	Global	SD
S.No. Course Course Relevance To Scope Need for Introdu  Code Title LIRINIG EMP ENTR SD  1. 20MCA- Information Global Tnformation Techn  - IDO1 Technology Components are vi  21MCA2SI for Management for business manage  2. 20MCA- Content  - IDO2 Management Global Management Global Management Global System  3. 20MCA- Statistical Global Knowledge on aud  - IDO3 Analytic teds ease out the		33030.004	Learning	Educati			. '	
S.No. Course Course Relevance To Scope Need for Introdu  Code Title LIRINIG EMP ENTR SD  1. 20MCA- Information Global Tnformation Techn  - IDO1 Technology Components are vi  21MCA2SI for Management for business manage  2. 20MCA- Content  - IDO2 Management Global Management Global Management Global System  3. 20MCA- Statistical Global Knowledge on aud  - IDO3 Analytic teds ease out the		2150	1000	200 . 0	hotes	129	er Nic	
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- IDO1 Technology  21MCA2SI for Management  2 20MCA- Content  - ID 02 Management Global  System  3 20MCA-Statistical Global  - ID03 Analytic  - ID03 Analytic  - ID03 Components are visited for business management for business management for business management management global  -		Code	Title	LIRIN	1G EMP	ENTRSD		
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2. 20MCA- Content  - ID 02 Management Global  System  3. 20MCA-Statistical Global  - ID 03 Analytic  2. 20MCA-Statistical Global  - ID 03 Analytic  2. 20MCA-Statistical Global  - ID 03 Analytic	0 8 0 8	- IDO1	Technolog	y	2. U.S.	137	omponents	are vi
2. 20MCA- Content Basic Content -ID02 Management Global mgmt. knowledge System Basic Content mgmt. knowledge essential for man essential for man knowledge on aud -ID03 Analytic tools ease out the	-	21MCA2SL	for Managen	nent	v d	1 1 1	1.	
- IDO2 Management Global mgmt. knowledge System essential for man  3. 20MCA-Statistical Global knowledge on aud  -IDO3 Analytic tools ease out the	2	:				1 1 1		71
3. 20 MCA - Statistical Global   exsential for many   -ID03 Analytic   tools ease out the		- ID02	Managem	ent Globo	el	1 1		
3. 20 MCA - Statistical Global knowledge on and -ID03 Analytic tools ease out the								
-IDO3 Analytic tools ease out the	3	20MCA-	statistica	al Globo	nl		Knowledge	on au
		-ID03	Analyti	c			tools one	out the
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4:	20 MCA- W	leb Gl	obal	E-Co	mmerce
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4.	Introduc	tion of	pusely S	skill-Ember	lded
	certifica	te valu	e added	Course	other than
	the Value	e Added	Course th	skill-Embed Course at is alre	ody
	being c	Hered.			0
	U	00		<b>y</b>	T
S.NO.	Course	Course	MOU with	Skills	Course
	Code	Title	Industry	Sharpened	outcome
1.	20PGVAMCH3	Payment		i) Hands on	i) knowledge on
		Gateway		experience on	
	L. Lariner	Implementation	//	,	Payment y ateway
	enterior de	Using Laravel	Asica L	ii) Internship	ii) Focus on
		0	184 84	with the industry	yreal time
	1 3 400		111111111	on implementing	application
			A 18	on implementing a real time	development
			Les to the state of	application	'
¥ 0			Sall Control		
1 2.	20PGNAMCA2		_ ,	_	i) Understand the
,		Security			Basics of cyber
		Techniques		sisks in	
				the Cyber Wold	11) Analyme &
			1	ii) Design	
					Cyber Security
				Overcome Luber	
				the Cyber	iii) Defermine 2 Analyze 3/w
				171.00113	Vulnerabilities
					VALINGEROOF

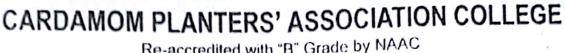
5.	Approval of Ph.D Course Work Syllabus - NIL
	Rubrics for Internship 1 Project
	Internship / Mini Project / Major Project
	-> Functionality - 10
	-> System Analysis - 10 -> Presentation - 10
	-> Queries - 10 50 Marks
, 32 v	External > 50 Marks
	DETAILS OF PROPOSED / SIGNED MOUS
Jan Marie	the the many of the said and th
	PG Department of Computers Applications  Signed a Mou with Bricksteel Enterprises  Infotech Pvt. 1td., Bangalore on December 14,2021
	The following activities are proposed to be carried out in the upcoming year
<u></u>	) In plant /kaih/ng
·	ii) Guest Lectures iii) Placement
	v) Carriculum Design
2.	
<u></u>	a Mou with Vivara Tech, chennai for the
	Consultancy Project titled "Books / E-Books / Content Development". The Department has agreed for content development Services in accordance
	for content development services in accordance

with the standards of Virara and as per the professional skills, personnel and technical resources

# OTHER SUGGESTIONS

	The state of the s
1. Text Book and Reference clearly indicated in the	Books to be Syllobus.
2. Bridge Course to be offered each semester for a period from 15 days at a stretch in	
OMMENDATION - The board of MCA programme & further so 1. Course on Foundation for	appreciated the Syllabus uggested the following: Data Science to be
2. Every Course should be in NPTEL course and the sy the same.	dentified with a clabus should focus
3. DBMS to be offered as a	core paper.
NAME	SIGNATURE
1. Dr. JeyaMala. D	A
2. Ms. Mary Helan Felista. S	Staylu
3. Dr. Sivakumar	
4. Dr. Chandrasekaran	

5.	Dr. Meenakshi. A	
6.	Mr. Manikumas	
7	Ms. Sobitha R.G.	
8.	Ms. Mable Jasmine Shobha	1. Mable Fastone Broke
9	MS. Smeeta Mary. R	Robbley
10	Ms. JebaPsiya. S	Sunt.
5	Ms. Usha. B	Ush B
12	Ms. Selvarani. S	Shelvara
/3	Ms. Nancy Vincentina Mary	P. Nany
-	SIGNATURE	3 7 1 1
<del> </del>		



Re-accredited with "B" Grade by NAAC
Post Box No. 29, Pankajam Nagar, BODINAYAKANUR - 625 513.

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Off: 04546 - 280209
 Fax: 04546 - 280793

E - Mail : cpacollege2010@gmail.com

cpac.thn@tn.gov.in

Dr.S.SIVAKUMAR, B.E., M.S., Ph.D., PRINCIPAL - IN - CHARGE

19.Pri.Gen /2021 - 2022

Date: 07.05.2021

### LETTER OF DECLARTION

I, Dr.S.Sivakumar, hereby declare that I had attended the Board of studies meting for the upgradation of the syllabus of the MCA programme on April 12, 2021 in the PG Department of Computer Applications, Fatima College (Autonomous), Madurai – 18. I approve the minutes of the Board of studies meeting and confirm it as correctly recorded.

Principal i/c

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY. CHENNAI)
(Approved by AICTE, New Delhi)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

29/04/2021

### LETTER OF DECLARATION

I, <u>DR.A.MEENAKSHI</u>, hereby declare that I had attended the Board of studies meeting for the upgradation of the syllabus of the MCA programme on April 12, 2021 in the PG Department of Computer Applications, Fatima College (Autonomous), Madurai -18. I approve the minutes of the Board of studies meeting and confirm it as correctly recorded.

(Dr.A.MEENAKSHI)

ASSOCIATE PROFESSOR & HOD- CSE

Head of the Department,
Department of Computer Science & Engg.

Kamaraj College of Engg. & Tech. Virudhunagar - 626 001.

### LETTER OF DECLARATION

I, Dr. Chandrasekaran, hereby declare that I had attended the Board of studies meeting for the upgradation of the syllabus of the MCA programme on April 12, 2021 in the PG Department of Computer Applications, Fatima College (Autonomous), Madurai -18. I approve the minutes of the Board of studies meeting and confirm it as correctly recorded.

Place: Madurai

Date: 29.04.2021

Signature

300

### LETTER OF DECLARATION

I, S MANIKUMAR, hereby declare that I had attended the Board of studies meeting for the upgradation of the syllabus of the MCA programme on April 12, 2021 in the PG Department of Computer Applications, Fatima College (Autonomous), Madurai -18. I approve the minutes of the Board of studies meeting and confirm it as correctly recorded.

Place: Madurai

Date: 29.04.2021

### LETTER OF DECLARATION

I, \_\_\_\_\_, hereby declare that I had attended the Board of studies meeting for the upgradation of the syllabus of the MCA programme on April 12, 2021 in the PG Department of Computer Applications, Fatima College (Autonomous), Madurai -18. I approve the minutes of the Board of studies meeting and confirm it as correctly recorded.

Yours Sincerly

 $\mathcal{O}^{\mathcal{A}}$ 

R G SOBITHA



(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

### **DEPARTMENT OF MCA**

MCA - (2021 - 2022)

COURSE CODE	COURSE TITLE	HRS / WK	CREDIT	CIA Mks	ESE Mks	TOT. MKs
	SEMESTEI	R - I				
20MCA101	Mathematical foundation of					
20141101	Computer Science	4	4	50	50	100
20MCA102	Software Engineering	4	4	50	50	100
20MCA103	Operating Systems	4	4	50	50	100
20MCA104	Programming in Python	4	4	50	50	100
*	Elective I–General	4	4	50	50	100
20MCA105	Lab I–Python Programming	4	2	50	50	100
20MCA106	LabII-RDBMS	4	2	50	50	100
20MCA107	Skill Based lab I–Linux	2	1	25	25	50
20MCA108	Soft Skills I – Professional Communication	2	1	25	25	50
	SEMESTER	a - II				
20MCA201	Data Structures and Algorithms	4	4	50	50	100
20MCA202	Web Technologies	4	4	50	50	100
20MCA203	Programming in Java	4	4	50	50	100
*	Elective I– Specialization	4	4	50	50	100
*	Elective II–General	4	4	50	50	100
20MCA204	LabIII- Web Technologies	4	2	50	50	100
20MCA205	LabIV- Java Programming	4	2	50	50	100



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Mary Land, Madurai - 625018, Tamil Nadu

COURSE CODE	COURSE TITLE	HRS / WK	CREDIT	CIA Mks	ESE Mks	TOT. MKs			
20MCA206	Skill Based Lab II-R Programming	2	1	25	25	50			
20MCA207	Soft Skills II – Aptitude Training	2	1	25	25	50			
	SEMESTER	- III							
20MCA301	Internship & Mini Project	4	4	50	50	100			
20MCA302	Software Quality & Testing	4	4	50	50	100			
20MCA303	Mobile Application Development	4	4	50	50	100			
20MCA304	Enterprise Application Development	4	4	50	50	100			
	Elective II – Specialization	4	4	50	50	100			
	Elective III - General	4	4	50	50	100			
20MCA305	Lab V - Mobile Application Development	4	2	50	50	100			
20MCA306	Lab VI- Enterprise Application Development	4	2	50	50	100			
20MCA307	Skill Based Lab III- Computer Aided Software Engineering Tools	2	1	25	25	50			
20MCA308	Soft Skills III – Interpersonal Skills for Corporate Readiness	2	1	25	25	50			
	SEMESTER	- IV							
20MCA401	Lab VII - UIX Design Programming	4	2	50	50	100			
*	Elective III –	4	4	50	50	100			
	Specialization	'	l 	50	50	100			
20MCA402	Project Viva Voce	-	6	50	50	100			
	SEMESTER - V								



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COURSE CODE	COURSE TITLE	HRS / WK	CREDIT	CIA Mks	ESE Mks	TOT. MKs
19MCA501	Software Project Management	4	4	50	50	100
19MCA502	Machine Learning	4	4	50	50	100
19MCA503	Enterprise Application Development	4	4	50	50	100
	Elective VII – Specialization	4	4	50	50	100
	Elective VIII - General	4	4	50	50	100
19MCA504	Lab IX - Python for Machine Learning	6	3	50	50	100
19MCA505	Lab X - Enterprise Application Development	6	3	50	50	100
19MCA506	Skill Based Lab V –R Programming	2	1	25	25	50
19MCA507	Soft Skills V – Interpersonal Skills for Corporate Readiness	2	1	25	25	50
	SEMESTER	- VI				
19MCA601	Major Project		12	100	100	200
19MCA602	Internet of Things – Self Learning Course		5	50	50	100
19MCAAL01	Human Computer Interaction (Self - Learning Extra Credit course For Advanced Learners)		4	50	50	100



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### ELECTIVES – I MCA

### SPECIALIZATION ELECTIVE - DATAANALYTICS

S.NO	SEME STER	COURSE CODE	COURSE TITLE	HR S/ WK	CREDI T	CI A Mk s	ES E Mk s	TOT MKs
1.	II	20MCADA01	Data Mining Techniques	4	4	50	50	100
2.	II	20MCADA02	Data Analytics and Visualization using Spreadsheets	4	4	50	50	100
3.	III	20MCADA03	Big Data Analytics	4	4	50	50	100
4.	III	20MCADA04	Data Analytics Tools & Techniques	4	4	50	50	100
5.	IV	20MCADA05	Business Analytics Using R	4	4	50	50	100
6.	IV	20MCADA06	Big Data Security	4	4	50	50	100



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### <u>SPECIALIZATION ELECTIVE – DISTRUIBUTED SYSTEM SECURITY</u>

s.no	SEM EST ER	COURSE CODE	COURSE TITLE	HR S/ WK	CREDI T	CI A Mk s	ES E Mk s	TOT MKs
1.	II	20MCADS01	Data Communication & Networking	4	4	50	50	100
2.	II	20MCADS02	Wireless Communication & Security	4	4	50	50	100
3.	III	20MCADS03	Cryptography & Network Security	4	4	50	50	100
4.	III	20MCADS04	Cyber Forensics	4	4	50	50	100
5.	IV	20MCADS05	Cloud Security	4	4	50	50	100
6.	IV	20MCADS06	High Speed Networks	4	4	50	50	100



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### SPECIALIZATION ELECTIVE – AI & MACHINE LEARNING

s.no	SEM EST ER	COURSE CODE	COURSE TITLE	HR S/ WK	CREDI T	CI A Mk s	ES E Mk s	TOT MKs
1.	II	20MCAAM01	Artificial Intelligence & Expert System	4	4	50	50	100
2.	II	20MCAAM02	Soft Computing	4	4	50	50	100
3.	III	20MCAAM03	Machine Learning	4	4	50	50	100
4.	III	20MCAAM04	Neural Networks	4	4	50	50	100
5.	IV	20MCAAM05	Human Computer Interaction	4	4	50	50	100
6.	IV	20MCAAM06	Deep Learning	4	4	50	50	100



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### **GENERALELECTIVES**

S.NO	COURSE CODE	COURSETITLE	HRS /WK	CREDIT	CIA Mks	ESE Mks	TOT. MKs
1.	20MCAGE01	Office Automation Tools	4	4	50	50	100
2.	20MCAGE02	Financial Management  And Accounting	4	4	50	50	100
3.	20MCAGE03	Organizational Behaviour	4	4	50	50	100
4.	20MCAGE04	E-Commerce	4	4	50	50	100
5.	20MCAGE05	Ethics in Computing	4	4	50	50	100
6.	20MCAGE06	Resource Management Techniques	4	4	50	50	100
7.	20MCAGE07	Entrepreneurship Development	4	4	50	50	100
8.	20MCAGE08	WirelessS ensor Networks	4	4	50	50	100
9.	20MCAGE09	Research Methodology	4	4	50	50	100
10	20MCAGE10	Digital Image Processing	4	4	50	50	100
11.	20MCAGE11	Cloud Computing	4	4	50	50	100
12	20MCAGE12	Agile Software Engineering	4	4	50	50	100



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#### **ELECTIVES – III MCA**

### SPECIALIZATION ELECTIVE – DATA SCIENCE

SEMESTER	SUBJECT CODE	SUBJECT TITLE
V	19MCADS03	Data Analytics Using Pig & Hive

#### <u>SPECIALIZATION ELECTIVE – NETWORKING</u>

SEMESTER	SUBJECT CODE	SUBJECT TITLE
V	19MCANW03	High Speed Networks

### SPECIALIZATION ELECTIVE – APPLICATION DEVELOPMENT

SEMESTER	SUBJECT CODE	SUBJECT TITLE
V	19MCAAD03	Software Development Frameworks



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### **GENERAL ELECTIVES**

S.NO	SUBJECT CODE	SUBJECT TITLE					
	E-BUSINESS PROCESS						
1	19MCAGE01	Resource Management Techniques					
2	19MCAGE02	Financial Management & Accounting					
3	19MCAGE03	Management Information Systems					
4	19MCAGE04	E-Commerce					
5	19MCAGE05	Cyber Forensics					
6	19MCAGE06	Ethics in Computing					
7	19MCAGE07	Entrepreneurship Development					
	RES	SEARCH DOMAIN					
8	19MCAGE21	Research Methodology					
9	19MCAGE22	Data Mining & Data warehousing					
10	19MCAGE23	Digital Image Processing					
11	19MCAGE24	Artificial Intelligence&Expert Systems					
12	19MCAGE25	Soft Computing					
13	19MCAGE26	Cloud Computing					
14	19MCAGE27	Advanced DBMS Techniques					



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### **INTERDISCIPLINARY COURSES**

S.NO	SEM EST ER	COURSE CODE	COURSE TITLE	HR S/ WK	CREDI T	CI A Mk s	ES E Mk s	TOT MKs
1.	П	21MCA2SL	INFORMATION TECHNOLOGY FOR MANAGEMENT	•	4	50	<u>50</u>	100
<mark>2.</mark>	IV	21MCA4SL	WEB ANALYTICS	-	4	<mark>50</mark>	<mark>50</mark>	<b>100</b>



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## INTER-DISCIPLINARY COURSE

### I MBA

PROGRAM ME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/ WEEK	CREDITS
MCA	21MCA2S L	INFORMATION TECHNOLOGY FOR MANAGEMENT	SELF LEARNING – ADVANCED LEARNERS	-	4

#### COURSE DESCRIPTION

The students would be aware of the various Information technology components, solutions and issues in the successful implementation of the same in any organization

#### **COURSE OBJECTIVES**

- ❖ To impart knowledge on the Information Systems and its application in organizations.
- ❖ To expose the students to the Business relating to information systems and help them identify and evaluate various options in Organizational Information Systems

#### UNIT I

**Introduction to Information Technology**- Introduction- Why Information Technology – Management Roles- Information Technology Trends.

**Strategic Information Systems** - Strategic Information Systems-IT for Competitive Advantage.





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#### **UNIT II**

**Information Technology**- Types of Operating Systems- Programming Languages- Types of Information Processing- Application Software- Industry Trends.

**Communication** – Networks - Network Topology- Network Components – Network Architecture- Internet, Intranet and Extranet Applications- Data Communication at Work.

#### UNIT III

**E-business Models** – E-Business Definition – Categories of E-Business Solutions- Building E-Business Models- Role of M-Commerce- E-Business Security Issues- E-business Strategy.

#### **UNIT IV**

**Knowledge Management and Intelligent Systems -** Introduction - Intelligent Systems - Knowledge Management - values of Knowledge Management - Components of Knowledge Management - Business Intelligence(BI) - Intelligent Business - Competitive Intelligence.

#### **UNIT V**

**Information System Planning (ISP)-** System Development Phases- System Development Methodologies .

**Managing Information Systems and Organizational Change -** Roles and Responsibilities for IT Management

### REFERENCES

- 1. Ramesh Behl "Information Technology for Management ", , Tata McGraw –Hill Education Private Limited, New Delhi.
- 2. Henry C. Lucas, Jr., "Information Technology for Management", Tata McGraw-Hill, 7<sup>Th</sup> Edition 2001
- 3. Sultan chand& Sons, "Management Information Systems", sultan Chand & sons.



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#### **WEB REFERENCES**

- 1. www. alison.com/learning-path/information-technology-for-managers
- **2.** www.ibm.com/topics/it-management

Levels	C1	C2	С3	C4	Total Scholas tic Marks	Non Scholasti c Marks C5	CIA Total	% of Assess
Lev	W1+ W2 5+5=10	Avg (M1 & M2) 10	Mid- Sem. Test 15	Once in a Sem. 10		5	50	ment
K1	-	-	-	-	-		-	-
K2	5	2	3	-	10		10	20 %
К3	5	3	4		12		12	24 %
K4	-	5	4	5	14		14	28%
K5	-	-	4	5	9		9	18 %
Non-								
Scho							5	10 %
Total	10	10	15	10	45	5	50	100 %
							mks.	

CIA				
Scholastic	45			
Non Scholasti	5			
	50			

- ✓ All the course outcomes are to be assessed in the various CIA components.
- ✓ The levels of CIA Assessment based on Revised Bloom's Taxonomy for MCA are :

**K2**-Understand, **K3**-Apply, **K4**-Analyse, K5 – Evaluate



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### **EVALUATION PATTERN**

SCHOLASTIC			NON - SCHOLASTIC		MARKS		
C1	C2	СЗ	C4	C5	CIA	CIA ESE Tota	
10	10	15	10	5	50 50 10		100

C1 – Sum of Two Weekly Tests

C2 – Average of Two Monthly Tests

C3 - Mid Sem Test

C4 - Once in a semester (Seminar / Assignment)

C5 - Non - Scholastic



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### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the information system trends	K2, K4	PSO1 & PSO2
CO 2	Investigate on the information technology components	K2, K3, K4	PSO1 & PSO2
CO 3	Identify the importance of E – Business and M-Commerce	K2 , K4	PSO3 & PSO5
CO 4	Assess role of Intelligent Systems in Business	K2, K3,K4 & K5	PSO3 & PSO4
CO 5	Analyze the Information system planning and Organizational change	K2,K3,K4 & K5	PSO4 & PSO5



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### Mapping COs Consistency with PSOs

CO/ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	1	1	1
CO2	3	2	1	1	1
СОЗ	2	1	3	1	1
CO4	2	1	3	1	1
CO5	1	1	1	2	3

### Mapping of COs with Pos

CO/ PSO	PO1	PO2	РО3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	3	2	1	1	1	2	3	2	3	1
CO2	1	1	2	1	2	1	1	2	1	1	3	1
соз	1	1	3	1	1	1	2	2	1	2	3	2
CO4	1	1	3	1	2	1	2	2	3	1	2	2
CO5	1	1	3	2	1	1	3	3	3	1	2	3

Note:

◆ Strongly Correlated – **3** 

♦ Moderately Correlated – 2

♦ Weakly Correlated -1

**COURSE DESIGNER:** 

**Staff Name** 

1. B. USHA

2. Dr. P. SHYAMALA

Forwarded By

**HOD'S Signature & Name** 

\_S. Mary HELAN FEL25TA)



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# INTER-DISCIPLINARY COURSE II MBA

PROGRAM ME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/ WEEK	CREDITS
MCA	21MCA4S L	WEB ANALYTICS	SELF LEARNING – ADVANCED LEARNERS	-	4

#### **COURSE DESCRIPTION**

This course introduces students to the basics of web analytics and the tools and techniques to carry out effective analytics on web. Students will learn the procedure to mull over the data available on the web.

#### **COURSE OBJECTIVE**

- To learn the basics of Web Analytics
- ❖ To have an exposure on the Common terminologies
- ❖ To be familiar with choosing the right web analytic solution
- ❖ To be acquainted with the statistical analysis on web
- ❖ To become skilled on making the analytics to work

#### UNIT I

#### **BASICS**

Understanding Web Analytics – Introduction - Who should use Web analytics? - Why you should use Web analytics - The importance of benchmarking - Web Analytics - Thinking like a journalist - The language of Web analytics



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#### **COMMON TERMINOLOGIES**

Hitting the Terminology Targets - Hits - Pageviews - Unique visitors - Web Analytics - Mastering Internet Marketing - Defining Actionable Data -Untangling Technical Terms

#### UNIT II

#### CHOOSING THE RIGHT WEB ANALYTICS SOLUTION

Web analytic tools – Introduction – Budget – Server side software survey – server side analytics – Desktop applications – Client side analytics – Hosted solutions – Any time access – Hosted analytics pitfalls – synergies of multiple tool types

#### **INVESTING IN WEB ANALYTIC TOOLS**

Introduction – Free analytic tools - Low cost solutions – Low cost vendors - Enterprise analytics – Web trends web analytics

#### **UNIT III**

#### TAKING OUT THE TRASH

Classifying Nonhuman Users - e-mail harvesters - link checkers and validators - Recognizing RSS feed readers - Blog-monitoring services - Referrer Spam

#### REVIEWING SITE REFERRERS

Referrers - Classifying sources of Web traffic - search engines - Beyond Search Engines - Measuring the value of link building campaigns - Counting click-through from e-mail campaigns

#### **UNIT IV**

### SEARCHING FOR STATISTICAL TREASURE



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Getting to Know Your Visitors – Visitors – Popular search terms – Referring off the wall requests – click streams &Labelling - Browser data & usage - Identifying the Most Important Pages - Key Performance Indicators Insights

#### UNIT V

#### MAKING ANALYTICS WORK

Sifting through Search Data – Search terms – accessing & reviewing the search data – searching for relevant terms – profit thieves -traffic analyzer – accuracy & relevancy - Increasing Web Site Visibility – Finding New Customers - Scanning search engines - Improving search rankings - Measuring your SEO efforts

#### REFERENCES:

- Pedro Sostre , Jennifer LeClaire , "Web analytics ", Wiley Publishing Inc, 2007
- 2. Michael Beasly, "Practical Web Analytics, Elsevier Science, 2013
- 3. Avinashkaushik, "Web Analytics", Wiley Publishing Inc., 2007

#### **WEB REFERENCES:**

- 1. www.tutorialspoint.com/web\_analytics/web\_analytics\_quick\_guide.htm
- 2. https://www.webanalytics.in





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Levels	C1	C2	С3	C4	Total Scholas tic Marks	Non Scholasti c Marks C5	CIA Total	% of Assess
Lev	W1+ W2 5+5=10	Avg (M1 & M2) 10	Mid- Sem.Te st 15	Once in a Sem. 10		5	50	ment
K1	-	-	-	-	-		-	-
K2	5	2	3	-	10		10	20 %
К3	5	3	4		12		12	24 %
K4	-	5	4	5	14		14	28%
K5	-	-	4	5	9		9	18 %
Non-								
Scho							5	10 %
Total	10	10	15	10	45	5	50 mks.	100 %

CIA					
Scholastic	45				
Non Scholasti	5				
	50				

- ✓ All the course outcomes are to be assessed in the various CIA components.
- $\checkmark$  The levels of CIA Assessment based on Revised Bloom's Taxonomy for MCA are :

**K2**-Understand, **K3**-Apply, **K4**-Analyse, K5 – Evaluate



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### **EVALUATION PATTERN**

	SCHOI	LASTIC		NON - SCHOLASTIC		MARKS	
C1	C2	СЗ	C4	C5	CIA	CIA ESE Total	
10	0 10 15 10			5	50	50	100

C1 – Sum of Two Weekly Tests

C2 – Average of Two Monthly Tests

C3 - Mid Sem Test

C4 - Once in a semester (Seminar / Assignment)

C5 - Non - Scholastic



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### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the basic terminologies used in web analytics	K2, K4	PSO1 & PSO2
CO 2	Compare and analyze various techniques followed in web analysis	K2, K3, K4	PSO1 & PSO2
CO 3	Identify the role of non human users and Referrers in web analysis	K2 , K4	PSO3 & PSO5
CO 4	Assess the visitors, important web pages and performance indicators	K2, K3,K4 & K5	PSO3 & PSO4
CO 5	Explore search sift and search engine optimization	K2,K3,K4 & K5	PSO4 & PSO5



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### **Mapping COs Consistency with PSOs**

CO/ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	1	1	1
CO2	3	2	1	1	1
CO3	2	1	3	1	1
CO4	2	1	3	1	1
CO5	1	1	1	2	3

### Mapping of COs with Pos

CO/ PSO	PO1	PO2	РО3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	8	1	2	2	3	2	2	3
CO2	1	1	2	1	2	1	1	2	2	3	3	3
соз	1	1	2	1	2	1	2	2	3	2	2	2
CO4	1	1	1	1	3	1	2	2	2	2	2	2
CO5	1	2	2	2	2	1	1	3	3	2	2	3

**Note**: ♦ Strongly Correlated – **3** 

♦ Moderately Correlated – 2

♦ Weakly Correlated -1

**COURSE DESIGNER:** 

**Staff Name** 

1. B. USHA

2. Dr.N. ASHA

Forwarded By

**HOD'S Signature & Name** 

S. MARY HELAN FELSSTA)