FATIMA COLLEGE (Autonomous), Madurai Master of computer Applications

The board of studies meet for framing the syllabus for MCA was held on 2/3/2019 at 10.30 a.m in the PG Dept. of computer applications

The members of the board were,

Professor, Dept. of Computer Applications

School of Information Technology Madurai Kamaraj University Madurai

2. Dr. T. KATHIRVALAVAKUMAR

Professor & Head

Research Dept. of computer science

VHNSN college

Virudhunagar

- 3. Dr. M. PUSHPARANI

 Professor & Head

 Dept. of Computer Science

 Mother Teresa women's University

 Research & Extension center

 Madurai
- Principal Software Engineer assignment Dell International Services

 Bangalore

isuk	AN ALEXANDER OF THE PROPERTY O	A. Diryely
	5. Ms. A. DIVYASRI Android	
CHAIR	Project Manager - Android Bricksteel Enterprises Infotech	Pvt. Ltd.
	Madural	
	10-32 a.m. in the 18-12	helpoh
	6. Mrs. E. Helena	E
	6. Mrs. E. Helena Dean of academic affairs - Si	The
	7. Mrs. B. chandirika	po. w.s
	MANAGE	all wh
	8. Mrs. S. Mary Helan Felista	8. Aleyh
	9. Mrs. R. Smecta Mary	Bithy
	I. IV. Smeeta ray	Max
	10. Mrs. S. Jeba Priya	Em S
7.	L KATHIK YALAVAKIMAR	
PHEL	11. Mrs. B. Usha	yehr. B
	12. Mrs. S. Selvavani	Selvarai
	TW. TO. O. GAVATATI	18
	DIRECTOR	
	Thesesus	007
	Dr. S. Raju	Tox
	THE Somplier Science in	X.
	nicoursian M. L. o. D.	1: P = - 10d
	Discussions Made & Resolu	ations iroposed
2.	Consent to change the structure	of the
	consent to change the structure curriculum to facilitate the	inclusion
	to be included as a new course part of the curriculum 19MCA511	. Internship
	to be included as a new course	as a
	part of the curriculum 19MCA511	0

2.	The paper Compiler Design offered as an elective was proposed to be included as a core paper to facilitate NET/SET exams.
	as a core paper to facilitate NET/SET exams.
The state of	
3.	This paper was decided to be included in the TV semester.
	New country to the students nessent
4.	Internet Programming Using JZEE paper
m la l	"Machine leasning" as it is the recent
	has to be replaced with the paper "Machine Learning", as it is the recent trend in the software industry.
	party in the significant includes
_	TO EF lab of my the V semester
5.	JZEE lab offered in the V semester
	has to be replaced with the Lab. "Machine Leaening Using Python IR."
	Machine Leading of
	The following speacialinations were
	The following speacialinations were proposed and acknowledged.
- may 7	proportion.
	* Data Science - courses included were
	i) 19MCADSOI - Big Data Analytics i) Big Data Security iii) 19MCADS 03
194	* Networking i) 19 MCA NWO3 - High speed N/W.
	ii) 19 MCANWOZ - Czypotographyiii) 19 MCANWOZ - Wireless SenSor N/W
	* Application Development:) 19MCAADO3
	in 19MCA ADOI- Web. Pgm. lechiii) 19MCA ADOZ-Internet Pgm. trameworks.
7.	NET paper in the Vth Semester has
illus !	to include MVC using ASP. net and C#.
*	Skill Based Lab Papers included
	i) 19MCA306 - Networking Tools
	ii) 19MCA506 - R programming

8. General electives offered are categorized under two themes.

* E-business process for enhancing New courses 19 MCAGE07 - Entrepreneurship Development * Kesearch Disciplines for motivating

- New courses students towards research.

 i) 19MCAGERI-Research Methodologyii) 19MCAGERI-BEMS Technique

 9. The paper Soft Computing, Digital I mage

 Processing has to be offered under general elective
- 10. An open online course (MOOC, Swayam, NPTEL,...)
 was proposed by the department to be included as a part of the curriculum to make it dynamic. The students can opt for any trending course of her interest. This was highly appreciated & acknowledged by the members.
- 11. A self study paper on IoT was proposed in VI sem.
- 12. Board members suggested offering value added courses for advanced learners. They could be facilitated to opt for extra courses from the general electives offered, to earn extra credits.
- 13. Mobile Application Development lab has to include hybrid development frameworks like ionic/React
- 14. Détailed Syllabus, Text books & Référence books for all the courses of all II semesters were discussed in detail.

Dr. S. Kannan	& Rannay 19
Dr. T. Kathir valava Kumas	2/3/19
Dr. M. Pushparani	Jusupad 3/19
Mr. G. Sahayaraj	l. Shoy
Ms. A. Divyasri	A. Divynel
. Mrs. E. Helena	helpoh
. Mrs. B. Chandirika	B.C.
. Mrs. S. Mary Helan Felista	Sleyh
Mrs. R. Smeeta Mary	8hrhy)
Mrs. S. Jebapriya	822
1. Mrs. B. Usha	Ush-13
r. Mrs. S. Selvarani	Scharani
DIRECTOR	2
Dr. S. Raju	
\$ 02 03 19	
The state of the s	

FATIMA COLLEGE (AUTONOMOUS), MADURAI MASTER OF COMPUTER APPLICATIONS

The Board of studies meet for framing the syllabus for MCA was held on 28/2/2020 at 9.30 a.m in the PG Department of Computer applications.

The members of the Board were

1.	Dr. S. KANNAN
	Professor
1	Department of computer Applications
	School of Information Technology
	Madurai Kamaraj University
	Madurai

& Rannong 20

2. Dr. G. CHANDRASEKARAN

Senior Professor & Director

Department of MCA

MEPCO SCHLENK Engineering College

Sivakasi

28/2/2010 =

3. Dr. M. PUSHPARANI

Professor & Head

Department of computer science

Mother Teresa Women's University

Research & Extension centre

Madurai

Jun Change 12/2000

4. Mr. G. SAHAYARAJ

Principal Software Engineer

Dell International Services

Bancalore

l. Ship

5.		ng/or promise water from
	MS. R. G. SOBITHA	AT CHERE A LITTLE !
	Operation Manager	St
bons	Business Development	A Prince of the second
Abore	Bricksteel Enterpoises Infotech Put. Lto	meelm ques
	Madural	sh po
19 00/0	to topped at the state of the proper	Sugar line faction in
6.	Ms. A. Mabke Jasmine Shobha	f- Mable Tasmine Shobha.
	Ms. A. Mabke Jasmine Shobha Dean of Academic Affairs	the second
		10/10/04
7.	Dr. D. Jeyamala, Director	A Y MIN
8.	Mrs. S. Mary Helan Felista	2. Sleyling
9	Mcc P Charat Mark	10 Add)
bree side	Mrs. R. Smeeta Mary	10000
10.	Mrs. S. Jeha Priva	England .
W BEEN	Control of the Contro	Abjacon Spided
11.	Mrs. B. Usha	A DVIM USh 13
وكالف	Astronomic action water that the in the	Stude Alexander
12	Mrs. P. Nancy Vincentina Mary	P. Nany
12.	0	
12.	- E.J. 2 MW 38	rest DVM
	. Ms. K. Laxmisri	K. lainsy
	Ms. K. Laxmisri	K. lainly
	. Ms. K. Laxmisri	K. lainsy
	Ms. K. Laxmisri	K. lang
	Ms. K. Laxmisri	K. lainly
	Ms. K. Laxmisri	K. lainly
	Ms. K. Laxmisri	K. lainly
	Ms. K. Laxmisri	K. lainly
wall.	Mrs. S. Jeba Priya Mrs. B. Usha Mrs. P. Nancy Vincentina Mary	Ush: 13

Action Taken Report on Board of Studies 2019

Based on the resolutions proposed in the board meeting 2019 the following modifications were made in the syllabus.

gestion Facilitate to offer specializations in the programme.

1. Specialization electives on the following domains were introduced in the curriculum.

a) Data Science
b) Networking

c) Application Development gestion Include Compiler Design Course in the core to crack NET/SET

2. A course on compiler Design with code 19MCA401 was included in the IV. semester

gestion Include the course Machine Learning as it is the recent trend-

3. A course on "Machine Learning Using Python with code 19MCA502 was offered in the I'm semester.

gestion Use MVC frameworks in the course web application development t 4. A course on Web Application Development with code 19MCA 503 was redesigned to include

MVC frameworks.

gestion Include a self study course on Internet of Things

5. A self study course on "Internet of Things"
with code 19MCA602 was included in the

VI semester

gestion open online courses to be facilitated

6. Students are mandated to opt for an open online course (MOOC, NPTEL, Microsoft | Oracle Certification etc.) once in a year.

Minutes

- After the conduct of the board meet, following were the discussions made & Resolutions Proposed
- 1. Action taxen report on the previous board was submitted.
- 2 Credits of either 1 or 2 has to be assigned based on the duration of the MOOC course.
- 3. Remedial programme document should include the impact factor.
- 4. Peer group activities in the extension activity should be recorded.
- 5. Value added courses exclusively for MCA students should be offered and the corresponding impact factor to be recorded.
- b. Programme Requisites of the value added courses to be detailed.
 - 7. List of companies for project should be from metropolitan cities.
 - 8. Agile software development should include an overview of tools like Hitlab & YML. Roles of agile & Scrum to be detailed.
 - 9. Live recording of project presentations to be made.
- 10. The course "Programming with Java" to include

the RMI component (19MCA303)

- 11. The content of the course "wineless sensor Networks" and "cloud computing" were redesigned based on the student feedback. (19MCANWOZ & 19MCAGE26)
- 12. The content of the course "Programming in Python" is changed to facilitate easy learning. (19MCA403)
- 13. The course Web Application Development to be renamed as Enterpoise Application Development and it includes frameworks like MVC, Hibernate and DJANGO. (19MCP 503)
- 14. A course for advanced learners is to be introduced in the Vth semester. The course to be introduced is "Human Computer Interaction"
- 15. List of examiners for Lab, Project & comprehensive viva-voce were discussed.
- 16. Mov's to be proposed were discussed.
- 1. Dr. S. Kannan Skannay
- 2. Dr. G. Chandrasekaran jell 28/2/2020
- 3. Dr. M. Pushparani

Surpar 28 12 12000

1.	Mr. G. Sahayaraj
4.	117. 07. Sahayaraj
5	Mrc. R. G. Cohittan
n E G	Mrs. R.G. Sobitha
	Ms. A. Mable Jasmine Shobha 1-Mable Lasmone SROBRA.
25.0	and ale read time link for the meetings
7.	Dr. D. Jeya Mala
	Dr. D. Jeya Mala Mrs. S. Mary Helan Felista Lynn
8.	Mrs. S. Mary Helan Felista Ilylin
	The members of the Booke weres
9.	Mrs. R. Smeeta Mary Blothy
	1. Thivexsity Nominee
10.	Mrs. S. Jebapriya
11.	Mrs. B. Usha
12	Mxc P Nancy Vincontine March 1000
12.	Mrs. P. Nancy Vincentina Mary P. Nance
13.	Ms. K. Laxmisri K. laming
	21 Adam of Expertention Found of makes A. L.
	DY G. CHANDRASEKARAN
1	Stepher Professor & Divectors I care in
	Department of MA
	- MERCO Schlenk Engineering College / Lat 12 21/4
	Bivakasi
	B. Academic Expert
	Trada Fushperson
	Professor & Head
	Department of Computer Science
	· Mother Teresa University Recearch & Extr. Center Modurai

FATIMA COLLEGE (AUTONOMOUS), MADURAI MASTER OF COMPUTER APPLICATIONS

The Board of studies meet for framing the syllabus for MCA was held on 718/2020 at 10 a.m in the online mode through Google Meet. The link for the meet is as follows:

meet.google.com/ixk-ktug-pwa

The members of the Board were

1. University Nominee

Dr. S. KANNAN

Professor

Dept. of Computer Applications
School of Information Technology
Madurai Kamaraj University
Madurai

- 2. Academic Expert

 Dr. G. CHANDRASEKARAN

 Senior Professor & Director

 Department of MCA

 MEPCO Schlenk Engineering College

 Sivakasi
- 3. Academic Expert
 Dr. M. Pushparani
 Professor & Head
 Department of Computer Science
 Mother Teresa University
 Research & Extn. Center, Madurai

0.004.	. Industry Expert					
	Mr. S. Manikumar					
	Senior Software Developer	y				
5.	Ericsson, Chennai					
2	Clouring change were implemented					
	Alumna	right Library				
	Ms. R. G. Sobitha	X				
9	Operation Manager	Sell as f				
	Business Development	arenderer -				
2.33mi	Bricksteel Enterprises Infotech Put. Ltd.					
	Madurais bud's - 1570 ANDIE					
	> 19 M CB 1, 103 - Programming in Pyth					
6.	. Academic Dean					
	Ms. A. Mable Jasmine Shobha 1. Massi	Jasmini Stobha.				
* 4	Dean of Academic Affairs	TENT SIG				
WALLS DAYS	Fatima College, Madurai	p				
7	. Dr. D. Jeya Mala Director					
1.	Dr. D. Jegariala, Director	0				
8.	. Mrs. S. Mary Helan Felista 3.1	leyh				
	A Course on "Human Compain Thismathing	ag hi				
9.		They				
10.	Mrs. S. Jeba Priya &m	7				
		V				
11.	Mrs. B. Usha Ush					
	the the land had a land at the state of the	Liletand 1				
12.	. Mrs. S. Selvarani Ssel	none-				
	de Arrive de Landa de Rola de Maria					
13.	B. Mrs. P. Nancy Vincentina Mary					

Action Taken Report on Board of Studies, FEB 2020

Based on the resolutions proposed in the board meeting held on 28,2/2020, the following changes were implemented.

- * The content of the following courses were redesigned to facilitate better learning

 - → 19MCANWOZ = Wireless Sensor Networks → 19MCAGE26 Cloud Computing → 19MCA403 Programming in Python

* 19MCA503

The course Web Application Development was reframed as "Enterprise Application Development." It includes framework like MVC, SPRING, STRUTS, HIBERNATE & DJANGO

* 19MCALOI

A course on "Human Computer Interaction"

is offered for advanced learners.

MINUTES OF BOARD OF STUDIES MEETING AUGUST, 2020

AICTE declared MCA as two year programme from the current academic year. The courses for the 2 year MCA programme was presented in the board meeting by the respective course designers. The courses and the suggestions given by the board members are as follows:

- SEMESTER DI IN 2 militagla sondienda de la barraga has barragas 1. 20 MCA101 - Mathematical Foundation of Computer Science The course was presented by the faculty and got approved by the members of the board.
 - 2. 20MCA102 Software Engineering The board members suggested to include the secent software engineering frameworks in Unit V
 - 3. 20MCA103 Operating System Suggestions to remove security concepts in Unit I and include Advanced Operating System concepts in place of it was made by one of the board members and others acknowledged it.
 - 4. 20MCA104 Programming in Python A discussion arose on having this course in the first semester and finally the board members approved.

5	Lab courses 4 1 are seleved in this.
-	were presented and approved by the members. They are as follows:
	They are as bollows:
	> 20MCAIDE - Lah T - Python Program
	→ 20MCA105 - Lab I - Python Programming → 20MCA106 - Lab I - RDBMS
100	> 20MCP107 - Skill Based Lab I - Linux
6	Soft skill -> 20 MCA 108 - Soft skills I - Rolessional C
	> 20MCA107 - Skill Based Lab I - Linux Soft skill → 20 McA108 - Softskills I - Rofessional Communication SEMESTER II
- 27 16.	a sea for the season of the se
1	20MCA201 - Data Structures and Algorithms
	A discussion on the various computer
	algorithms included in the course were
	discussed and approved by the board members.
1	
~ ·	20MCA 202 - Web Technologies
	thoustry Expert insisted on implementing
	application development which is
- 11	and concesponding course on la
- 10	and hence the course got approved.
3.	
	20MCA203 - Programming in Java Boasel members accepted the
	Board members asserted the importance of including the course on love Town
111 8.4	including the course on Core Java in the programme and appreciated for the same.
100	1) go me same.
4.	Lab courses that are offered in this semester
and in the	were presented and approved by the members. They are as follows:
	They are as follows:
_	> 20MCA 204 - Lab III - Web Technologies
53.01	> 20 MCA 205 - Lab IV - Java Programming
	7 ZUMICH 206 - SKIll Based Lab II - R Programmy
5.	Saft Skill - 20 MCA 207 - Saft Skills II - Aptitude Training

SEMESTER III

- 1. 20MCA301 Internship & Mini Project

 The board members enquired on the duration of the internship. It was clarified that

 Internship and a corresponding mini project has to be completed in the summer vacation for which the minimal time duration is 1 month.
- 2. 20MCA302 Software Quality & Testing
 This new course was presented to the
 members and was approved by them.
- 3. 20MCP303 Mobile Application Development Members suggested to curtail the theory concept and include more of application development towards practical implementation of mobile apps.
- 4. 20MCA304 Enterprise Application Development
 The course was highly appreciated by the industrial expert and suggestions were given to create real time projects in the corresponding course on lab.
- 5. Lab courses that are offered in this semester were presented and approved by the members. They are as follows:
 - > 20MCA 304 Lab V Mobile Application Development
 - -> 20MCA305 Lab VI Enterprise Application Development
 - + 20MCA306 Skill Based Lab II CASE Tools

SEMESTER IV

- 1. 20MCA401 UIX Design Programming-Lab VIII

 This course focus on modern technologies
 for interactive web application development

 and one such Kind was appreciated and
 approved by the members.
- 2. 20MCA 402 Project

 Since the students are expected to
 do one major core and one specialimation
 elective courses in this semester, the
 tenure of the project was discussed and
 finalized as 2 months (60 days)

ELECTIVES

- → The Programme offers specialization and General Electives
- -> Specialization Electives are offered under the titles
 - * Data Analytics
 - * Distributed System Security
 - * AI & Machine Learning
- → 6 courses on each title is offered under specialization Electives
- -> 12 courses are offered under General Electives
- The members suggested to include appropriate software tools in the Unit I of the elective courses so that practical knowledge of the courses

could be imparted to the students.

GENERAL ELECTIVES

The following courses are offered as General Electives from Semester I till Semester III. Board members approved the courses since these courses were scruitinized and approved in the board meet conducted in February, 2020.

\rightarrow	20MCAGE01	office	Automation	tools
---------------	-----------	--------	------------	-------

+ 20MCAGEO2 Financial Management & Accounting

Organizational Behaviour > 20MCAGE03

+ 20 MCA GE 04 E- Commerce

-> 20 MCAGE05 Ethics in Computing

> 20MCAGE06

Resource Management Techniques Entrepreneurship Development Wireless Sensor Networks > 20 MCA GEOT

> 20 MCAGEOS

7 20 MCAGE09 Research Methodology

-> 20 MCAGE10 Digital Image Processing

-> 20 MCA GEII

Cloud Computing Agile Software Engineering + 20 MCAGE12

SPECIALIZATION ELECTIVES

The board members approved the following specialization elective courses offered under three titles.

I DATA ANALYTICS

				The state of the s
	S. NO	Semester	Course Code	Course Title
32	1.	a callage	20MCADA01	Data Mining Techniques
		T III	20MCADA02	Data Analytics & Visualization
	9 8 2 VA	the page	Kanandan	- Using Spreadsheets
	3.	HI		Big Data Analytics
1	304.		20MCA DAOY	Data Analytic Tools & Techniques
	5.	77.	20MCADA05	Business Analytics Using R
	Ь.	_		Big Data Security
	All many	Lies to ortain	AL BOAR CREAT	TO STARBONGE EN

IL DISTRIBUTED SYSTEM SECURITY

A 2 OMER DIE TO SE FLOOR CIVIL MAN AUX MED LA HO

		2000	201210 - 14	AND THE PROPERTY OF THE PARTY O
8	3.NO.	Semester	Course Code	202 Course Title
1	1.	and II		Data Communication & Networks
Made	2.	vas III 2		Wireless Communication &
1	reales	b. Methor	La Resente	BOBDES Security
2	3	Estibe	20MCADS03	Cyptography & Network Security Cyber Forensics
	4.	Man Mada	20 MCADS04	Cyber Forensics
100	5.	IV	20MCADS05	cloud Security
	6.	IV	20MCADSOB	High Speed Networks
		L ALLYSI	FOTILIES	SPECIALISM ATYON E

IIL AI & MACHINE LEARNING

5.	S-No.	Semester	Course Code	Course Title
You do	sal.	I John at	20MCAAMO1	Artificial Intelligence & - Expert System
	2.	II III	20MCAAM02 20MCAAM03	Soft Computing Machine Learning
t b	4.	TI IV	20MCA AMOY	Neural Networks Human Computer Interaction
Hora	6.	ĪV		Deep Learning

ADD ON COURSES

→ Courses on soft skills are offered as add
on courses from semester I till semester III
→ MODC/SWAYAM/NPTEL courses are mandated
for every year of study.

COURSE FOR ADVANCED LEARNERS

Things" is offered as a self study course for advanced learners which would earn them extra credits. This was highly appreciated and approved by the board members.

GENERIAL SUGGESTIONS

- Academic experts insisted on offering a
 Bridge Course on the basic concepts
 of computer applications to the I year
 Students whose UG degree is not based on
 computers
- Industry Expert & Alumna insisted on the focus of the entire programme towards real time projects & internship.
- 1. Dr. D. Jeyamala, Director
- 2. Mrs. S. Mary Helan Felista & Sleyh
- 3. Mrs. R. Smeeta Mary Bothy
- 4. Mrs. S. Jeba Priya Spy
- 5. Mrs. B. Usha Ush-B
- 6. Mrs. S. Selvarani Selvara
- 7. Mrs P. Nancy Vincentina Mary

A. G. Wine Sahang Many

I, Dr. S.KANNAN, hereby declare that, I had attended the Board of Studies Meeting for the Upgradation of Syllabus on August7th, 2020in the PG Department of Computer Applications, Fatima College(Autonomous), Madurai-18.

Place: Madurai

Date: 7.8.2020

I, Dr. G.CHANDRASEKARAN, hereby declare that, I had attended the Board of Studies Meeting for the Upgradation of Syllabus on August 7th, 2020 in the PG Department of Computer Applications, Fatima College(Autonomous), Madurai-18.

Place: Madurai

Date: 7.8.2020

-solm,

I, Dr. M.PUSHPARANI, hereby declare that, I had attended the Board of Studies Meeting for the Upgradation of Syllabus on August 7th, 2020 in the PG Department of Computer Applications, Fatima College(Autonomous), Madurai-18.

Place : Madurai

Date: 7.8.2020

i sur

I, Mr. S.MANIKUMAR, hereby declare that, I had attended the Board of Studies Meeting for the Upgradation of Syllabus on August 7th, 2020 in the PG Department of Computer Applications, Fatima College(Autonomous), Madurai-18.

Place: Madurai

Date: 7.8.2020

S. Marillar Signature

I, Mrs. G. SOBITHA, hereby declare that, I had attended the Board of Studies Meeting for the Upgradation of Syllabus on August 7th, 2020 in the PG Department of Computer Applications, Fatima College(Autonomous), Madurai-18.

Place: Madurai

Date: 7.8.2020