


JAIPUR NATIONAL UNIVERSITY, JAIPUR



**BOARD OF STUDIES
2020-21**

SCHOOL OF BUSINESS AND MANAGEMENT


(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur

BOARD OF STUDIES IN THE SCHOOL OF BUSINESS AND MANAGEMENT

AGENDA

The meeting of the Board of Studies in School of Business and Management For the year 2020-2021, will be held on 3rd August 2020 at 2:00 PMin the Conference Room- School of Business & Management, Jaipur National University.

The following agenda will be discussed in the meeting:

- Confirmation of the minutes of the meeting held on 29th December 2018.
- Action taken report
- To confirm and approve regarding "No Change" proposed for MBA (Dual), MBA (HHM), MBA, Integrated MBA program for the session 2020-2021.
- To discuss and approve the introduction of new course **Research and Publication Ethics** in Ph.D program
- To discuss and approve the proposed Syllabus of new course in Ph.D program
- To confirm and approve regarding "No Change" proposed for B.Com, B.Com(Hon's)-ABST and B.Com(Hon's)-Business Administration program for the session 2020-2021.
- To discuss and approve the introduction of new program B.Com Honors in Economics and Financial Management
- Discuss and approve the proposed syllabus and Exam Scheme of new program B.Com Honors in Economics and financial management.
- To discuss and approve the introduction of proposed new program of M.Com in Accountancy and Business Statistics
- Discuss and approve the proposed syllabus and Exam Scheme of M.Com (Accountancy and Business Statistics).
- To discuss and approve the introduction of the new Value added course on Campus Recruitment and Training for PG Program and Managing science and spirituality and Statistics to Excel for UG Program.
- To discuss and approve the feedback on Curriculum from stakeholders
- Any other matter with the permission of Chair


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BOARD OF STUDIES IN THE SCHOOL OF BUSINESS AND MANAGEMENT

Minutes of the meeting held on 3rd August 2020

The meeting of the Board of Studies in School of Business & Management, for the year 2020-2021, was held on 3rd August 2020 at 2:00 PM in the Conference Room- School of Business & Management, Jaipur National University (Main Campus).

The following members attended the meeting:

S.No.	Name	Designation
1	Prof. H.N. Verma	Chairperson
2	Dr. P.R. Sodani	External Subject Expert
3	Prof. B.L. Gupta	External Subject Expert
4	Dr. Mukesh Kumar Verma	External Industry Expert
5	Prof. Rajesh Mehrotra	Director
6	Prof. J.K. Tandon	Research Advisor
7	Prof. Shreya Bhargav	Assistant Director
8	Prof. Jyotsna Khandelwal	Assistant Director
9	Dr. Shilpi Bagga	Coordinator
10	Mr. Yatendra Verma	Assistant Professor
11	Ms. Thaya Madhvi	Assistant Professor

Chairman of the Board, addressed the members and introduced external BOS Members to the board and further internal members introduced themselves.

Minutes of the meeting

Item No. 1

1. Confirmation of the minutes of the meeting held on 29th December 2018.

The minutes of the meeting held on 29th December 2018 were read and confirmed unanimously by all the members


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RESOLUTION
[No.: BOS/SBM/2020/1]

UNANIMOUSLY RESOLVED THAT the minutes of BOS Meeting held on 29th December 2018 was confirmed.

Item No. 2

2. Action Taken Report

(i) Introducing Value Added Course on “Stress Management”

School of Business & Management has designed and BOS approved the curriculum for Value Added courses on “**Stress Management**” vide Resolution no. BOS/SBM/2019/4.

(ii) Introduction of Online courses like NPTEL/SWAYAM

School of Business & Management has decided to motivate their students and teachers to get enroll in various program run on SWAYAM Portal vide Resolution no. BOS/SBM/2019/7.

(ii) Implementation of revised curriculum for B.Com Honors. In ABST and BADM for academic session 2019-20

The revised curriculum discussed and approved vide resolution no. BOS /SBM/2019/3 with suggestions have been implemented from July 2019, for the following courses:

Program outline of B.Com Honors ABST for academic session 2019-20

SEMESTER -I		SEMESTER -II	
BCHAB101	Principles of Management	BCHAB201	Legal Aspects of Business
BCHAB102	Business Economics	BCHAB202	Economic Environment
BCHAB103	Computer Applications	BCHAB203	Business Statistics
BCHAB104	Fundamentals of Accounting	BCHAB204	Advanced Accounting
BCHAB105	Business Mathematics	BCHAB205	Cost Accounting
BCHAB106	Financial Accounting	BCHAB206	Financial Management
		BCHAB207P	Industry Visit Report
SEMESTER -III		SEMESTER -IV	
BCHAB301	Business Communication	BCHAB401	Business Ethics
BCHAB302	Macro Economics	BCHAB402	International Financial System
BCHAB303	Principles & Practices of	BCHAB403	Management


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	Auditing		Accounting
BCHAB304	Corporate Accounting	BCHAB404E	Project Management*
BCHAB305	Cost Analysis &Control	BCHAB405E	Event Management *
BCHAB306	Quantitative Techniques	BCHAB406E	Production & Operation Management*
		BCHAB407	Income Tax Law & Practice
		BCHAB408	Strategic Financial Management
SEMESTER -V		SEMESTER -VI	
BCHAB501	Environmental Management	BCHAB601	Marketing Management
BCHAB502	Company Law	BCHAB602	Banking Service &Operations
BCHAB503	Business Budgeting	BCHAB603	Business Infomatics
BCHAB504	Entrepreneurship and Skill Development	BCHAB604	Business Research Methods
BCHAB505	Goods &Service Tax	BCHAB605E	Financial Reporting *
BCHAB506E	Security Analysis &Portfolio Management*	BCHAB606E	Financial & Commodity Derivatives*
BCHAB507E	Advance Statistics *	BCHAB607E	Risk Management – Tools& Application*
BCHAB508E	Merchant Banking & Corporate Restructuring*	BCHAB608	Corporate Tax Management
BCHAB509P	Summer Training Report	BCHAB609P	Report on Recent Trends in Finance

Program outline of BCom Hons.BADM for academic session 2019-20

SEMESTER -I		SEMESTER -II	
BCHBA101	Fundamentals of Accounting	BCHBA201	Financial Accounting
BCHBA102	Business Economics	BCHBA202	Economic Environment
BCHBA103	Principles of Management	BCHBA203	Business Communication
BCHBA104	Computer Applications	BCHBA204	Legal Aspects of Business
BCHBA105	Marketing Management	BCHBA205	Consumer Behaviour
BCHBA106	Business Organisation	BCHBA206	International Business
		BCHBA207	Industry Visit Report
SEMESTER -III		SEMESTER -IV	
BCHBA301	Business Statistics	BCHBA401	Management Accounting
BCHBA302	Macro Economics	BCHBA402	Financial Management
BCHBA303	Human Resource Management	BCHBA403	Business Ethics
BCHBA304	Product & Brand management	BCHBA404E	Industrial Relations*
BCHBA305	Operation Management	BCHBA405E	Labour Welfare & Social Security*


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BCHBA306	Marketing of Services	BCHBA406E	Talent Management*
		BCHBA407	Rural Marketing
		BCHBA408	Digital Marketing
SEMESTER -V		SEMESTER -VI	
BCHBA501	International Financial System	BCHBA601	Project Management
BCHBA502	Income Tax Law & Practice	BCHBA602	Principles & Practices of Auditing
BCHBA503	Company law	BCHBA603E	Organization Behavior*
BCHBA504	Entrepreneurship & Skill Development	BCHBA604E	Human Resource Development *
BCHBA505E	Principles & Practices of Insurance *	BCHBA605E	History of Management Thought*
BCHBA506E	Sales & Distribution Management*	BCHBA606	Business Research Methods
BCHBA507E	Supply Chain Management *	BCHBA607	Business Informatics
BCHBA508	Strategic Management	BCHBA608	Environmental Management
BCHBA509P	Summer Training Report	BCHBA609P	Report on Recent Trends in Marketing

(iv) Implementation of value added courses as follows:

The proposed value added courses have been approved with the vide Resolution no. **BOS/SBM/2019/5** and implemented from July 2019

Value Added courses as follows:

S.No.	Course Duration	Title of Courses
1.	30 hours	Managing Science & Spirituality
2	30 hours	Digital Marketing
3	30 hours	Women Entrepreneurship
4	30 hours	Statistics to Excel
5	30 hours	Computation of GST.

Item No. 3

There is no change in MBA (Dual Specialization), MBA, Integrated MBA and MBA(Hospital & Healthcare Management) as per BOS 2020. Value Added Course on Stress Management was introduced in Academic Session 2019-2020.


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Item No. 3

Confirmation and approve regarding "No Change" proposed for MBA (Dual), MBA (HHM), MBA and Integrated MBA program.

RESOLUTION

[No.: BOS/SBM/2020/2]

UNANIMOUSLY RESOLVED THAT the program outline of MBA (Dual), MBA (HHM), MBA and Integrated MBA is accepted as same as earlier and approved with changes subject to the final approval of the Academic Council.

Item No. 4

Discuss and approve introduction of new course in Ph.D program

School of Business and Management has proposed to introduce new course in Ph.D programme as per UGC guidelines: **Research and Publication Ethics**

RESOLUTION

[No.: BOS/SBM/2020/3]

UNANIMOUSLY RESOLVED THAT the above listed new course Research and Publication Ethics for Ph.D programme is accepted and approved with subject to the final approval of Academic Council.

Item No.5

Discussion and approval of the proposed Syllabus of new course in Ph.D programme as per UGC guidelines: Research and Publication Ethics


RESOLUTION

[No.: BOS/SBM/2020/4]

UNANIMOUSLY RESOLVED THAT the syllabus of new introduced course for Ph.D programme is accepted and approved as presented with changes and subject to the final approval of the Academic Council

Item No.6

Confirm and approve regarding "No Change" proposed for B.Com Honors in ABST and BADM, BBA and B.Com for academic session 2020-21.


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RESOLUTION

[No.: BOS/SBM/2020/5]

UNANIMOUSLY RESOLVED THAT the program outline of **B.Com Honors in ABST and BADM, BBA and B.Com** program is accepted as same as earlier and approved with changes subject to the final approval of the Academic Council

Item No.7

Discuss and approve the introduction of new program **B.Com Honors in Economics and Financial Management**

The chair gave the presentation for introduction of new program **B.Com Honors Economics and Financial Management**. A Panel of experts discussed the relevance of running EAFM as new specialization to facilitate the learning process of the students by giving them more options as per their interest.

RESOLUTION

[No.: BOS/SBM /2020/6]

The board unanimously resolved that the proposal of Economics and financial management as new specialization in **B.Com Honors** to be introduced from academic session 2020-21 is approved with suggested changes.

Item No. 8

Discuss and approve the proposed syllabus and Exam Scheme of new program **B.Com Honors in Economics and financial management**.

Course outline of **B.COM (H) EAFM for academic session 2020-21**

BCOM (H) EAFM

Semester 1

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A101	GE1	Computer Application	100	4	1	0	60 Min.	0
2.	BCHE A102	DSC 1.1	Fundamental of Accounting	100	4	1	0	60 Min.	0
3.	BCHE A103	DSC 1.2	Micro Economics	100	4	1	0	60 Min.	0
4.	BCHE A104	DSC 1.3	Principles and Practices of Management	100	4	1	0	60 Min.	0
5.	BCHE A105	DSC 1.4	Indian Economy	100	4	1	0	60 Min.	0

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6.	BCHE A106	AECC 1	English	100	4	1	0	60 Min.	0
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Semester 2

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A201	GE 2	Financial Accounting	100	4	1	0	60 Min.	0
2.	BCHE A202	DSC 2.5	Commercial Law	100	4	1	0	60 Min.	0
3.	BCHE A203	DSC 2.6	Indian Banking & Financial System	100	4	1	0	60 Min.	0
4.	BCHE A204	DSC 2.7	Financial Management	100	4	1	0	60 Min.	0
5.	BCHE A205	DSC 2.8	Monetary Policy	100	4	1	0	60 Min.	0
6.	BCHE A206	AECC 2	Hindi	100	4	1	0	60 Min.	0
7.	BCHE A207		Industrial Tour	100					

Semester 3

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A301	SEC 1	Business Communication	100	4	1	0	60 Min.	1
2.	BCHE A302	DSC 3.9	Cooperation & Rural Development	100	4	1	0	60 Min.	0
3.	BCHE A303	DSC 3.10	Business Statistics	100	4	1	0	60 Min.	0
4.	BCHE A304	DSC 3.11	International Business	100	4	1	0	60 Min.	0
5.	BCHE A305	DSC 3.12	Macro Economics	100	4	1	0	60 Min.	0
6.	BCHE A306	GE 3	Company Law	100	4	1	0	60 Min.	0



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Semester 4

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A401	GE 4	Business Ethics& Corporate Governance	100	4	1	0	60 Min.	0
2.	BCHE A402	DSC 4.13	Public Finance	100	4	1	0	60 Min.	0
3.	BCHE A403	DSC 4.14	Mathematics for Business Economics	100	4	1	0	60 Min.	0
4.	BCHE A404	DSC 4.15	Management Accounting	100	4	1	0	60 Min.	0
5.	BCHE A405	SEC 2	E- Commerce	100	4	1	0	60 Min.	0
6.	BCHE A406	AECC 3	Environment Management	100	4	1	0	60 Min.	0

Semester 5

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHEA 501	DSC 5.16	Quantitative Technique	100	4	1	0	60 Min.	0
2.	BCHEA 502	DSC 5.17	International Finance	100	4	1	0	60 Min.	0
3.	BCHEA 503	DSC 5.18	Business Budgeting	100	4	1	0	60 Min.	0
4.	BCHEA 504	SEC 3	Entrepreneurship and Skill Development	100	4	1	0	60 Min.	0
5.	BCHEA 505E	DSE 1	Corporate Accounting	100	4	1	0	60 Min.	0
	BCHEA 506E		Event Management						
6.	BCHEA 507E	DSE 2	Cost and Management Audit	100	4	1	0	60 Min.	0
	BCHEA		Human Resource Mgmt						


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	508E								
7.	BCHEA 509		Summer Training Report	100					

Semester 6

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCHE A 601	DSC 6.19	Security Analysis & Portfolio Management	100	4	1	0	60 Min.	0
2.	BCHE A 602E	DSE 3	Cost Accounting	100	4	1	0	60 Min.	0
	BCHE A 603E		Industrial Relations						
3	BCHE A 604E	DSE 4	Income Tax- Law & Practise	100	4	1	0	60 Min.	0
	BCHE A 605E		Marketing Management						
4	BCHE A 606E	DSC	Research Methodology	100	4	1	0	60 Min.	0
5	BCHE A 607E	DSC 6.20	Project Management	100	4	1	0	60 Min.	0
6	BCHE A 608	SEC 4	Sales Promotion & Personal Selling	100	4	1	0	60 Min.	0
7	BCHE A 609R		Survey Report on Economic Issues	100					

RESOLUTION

[No.: BOS/SBM /2020/7]

COLLECTIVELY RESOLVED THAT the syllabus and exam scheme of Economics and financial management as new specialization in BCom Hons. is accepted and approved as presented with changes subject to the final approval of the Academic Council


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Item No. 9

Discuss and approve the introduction of proposed new program of **M.Com in Accountancy and Business Statistics**

The chair gave the presentation for introduction of **M.Com** with specialization in Accountancy and Business Statistics subjects. **M.Com** is one of the most professional courses in the field of commerce that most of the students pursue to become an Accountant, Tax Specialist, Investment Banker, Financial Consultant, and to pursue other similar roles. A Panel of experts discussed the relevance of running M.Com to facilitate the learning process of the students by giving them more options as per their interest.

RESOLUTION

[No.: BOS/SBM/2020/8]

The board unanimously resolved that the proposed program of M.Com with specialization in Accountancy and Business Statistics to be introduced from academic session 2020-21 is approved with suggested changes.

Item No. 10

Discuss and approve the proposed syllabus and Exam Scheme of M.Com (Accountancy and Business Statistics).

Course outline of M.Com in Accountancy and Business Statistics

M.COM ABST

Semester 1

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MCOA B101	Core	Advanced Corporate Accounting	100	4	1	0	60 Min.	0
2.	MCOA B102	Core	Advanced Business Statistics	100	4	1	0	60 Min.	0
3.	MCOA B103	Core	Income Tax –Law& Practice	100	4	1	0	60 Min.	0
4.	MCOA B104	Core	Financial Management	100	4	1	0	60 Min.	0
5.	MCOA B105E	Elective	Business Ethics and Corporate Governance	100	4	1	0	60 Min.	0


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6.	MCOA B106E	Elective	Environment Management	100	4	1	0	60 Min.	0
7	MCOA B107E	Elective	Principle and Practice of Management	100	4	1	0	60 Min.	0

Semester 2

S. No.	Paper Code	Course Category	Paper Title	Cre dit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MCO AB201	Core	Managerial Economics	100	4	1	0	60 Min.	0
2.	MCO AB202	Core	Corporate Tax Planning	100	4	1	0	60 Min.	0
3.	MCO AB203	Core	Goods and Services Tax	100	4	1	0	60 Min.	0
4.	MCO AB204	Core	Operations Research	100	4	1	0	60 Min.	0
5.	MCO AB205 E	Elective	Marketing Management	100	4	1	0	60 Min.	0
6.	MCO AB206 E	Elective	Human Resource Management	100	4	1	0	60 Min.	0
7.	MCO AB207 E	Elective	Information System Accounting	100	4	1	0	60 Min.	0

Semester 3

S. No.	Paper Code	Course Category	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MCO AB30 1	Core	Security Analysis and Portfolio Management	100	4	1	0	60 Min.	1
2.	MCO AB30 2	Core	Advanced Cost Accounting	100	4	1	0	60 Min.	0
3.	MCO AB30 3	Core	Financial Reporting	100	4	1	0	60 Min.	0
4.	MCO AB30 4	Core	Research Methodology	100	4	1	0	60 Min.	0


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5.	MCO AB30 5E	Disciplin e Specific Elective	International Financial System	100	4	1	0	60 Min.	0
6.	MCO AB30 6E	Disciplin e Specific Elective	Project Planning and Management	100	4	1	0	60 Min.	0
7	MCO AB30 7E	Disciplin e Specific Elective	Regulatory Framework of Business	100	4	1	0	60 Min.	0

Semester 4

S. No.	Paper Code	Course Categor y	Paper Title	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	MCOA B401	Core	Strategic Financial Management	100	4	1	0	60 Min.	0
2.	MCOA B402	Core	Management Accounting	100	4	1	0	60 Min.	0
3.	MCOA B403	Core	Auditing	100	4	1	0	60 Min.	0
4.	MCOA B404P	Core	Dissertation and Presentation	100	4	1	0	60 Min.	0
5.	MCOA B405E	Discipli ne Specific Elective	Financial Markets	100	4	1	0	60 Min.	0
6.	MCOA B406E	Discipli ne Specific Elective	Financial & Commodity Derivatives	100	4	1	0	60 Min.	0
7	MCOA B407E	Discipli ne Specific Elective	Risk Management – Tools and Applications						

RESOLUTION [No.: BOS/SBM/2020/9]

COLLECTIVELY RESOLVED THAT the syllabus and exam scheme of M.Com Honors


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(Accountancy and Business Statistics) is accepted and approved as presented with changes subject to the final approval of the Academic Council .

Item No. 11

Discussion and approval on Value Added Courses on Managing Science & Spirituality and Statistics to Excel

Prof. Rajesh Mehrotra briefed about the rationale behind introducing the two Value Added courses for the academic session 2020-21.

The members suggested the following changes:

- ☐ Division of lectures, unit wise, should be designed for at least 30 hours.
- ☐ To include Books of latest edition and emphasis on practical session.

RESOLUTION

[No.: BOS/SBM/2020/10]

UNANIMOUSLY RESOLVED THAT the Course Content of the Managing Science & Spirituality and Statistics to Excel are highly appreciated and approved with the suggested changes subject to the final approval of Academic Council

The revised curriculum is attached as Annexure

Item No.12

Discuss the feedback taken from various stakeholders (For Undergraduate and Postgraduate Programs) and to approve the action taken report on the basis of analysis of feedback from various stakeholders

Chair presented the proposed action taken report which was made on the basis of analysis done from Feedback received from various stakeholders. The Board members suggested few changes.

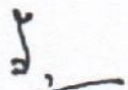
Following points were raised and discussed:

The members suggested including few activities like virtual trading, mocking interviews session etc to acquaint students towards the employability.

The members emphasized on setting up of incubation center for the business ideas.

The members advised to show short documentary films over corporate houses to simulate theory with practical applications.

Members emphasized on encouraging faculty members to register for courses from NPTEL and Course era.


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RESOLUTION
[No.: BOS/SBM/2020/11]

Unanimously resolved to implement suggested measures from proposed action taken report from academic session 2020-21 with suggested changes with subject to final approval of academic council :

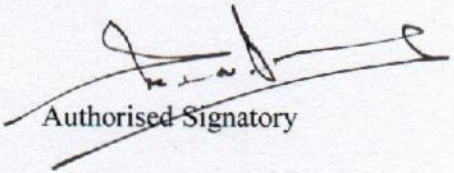
- The members suggested that to emphasis on those activities which enhance the Entrepreneur skill of the students
- Members emphasized on encouraging students to register and pursue short term online courses on portals like NPTEL/SWAYAM for domain certification
- Increase the use ICT tools in Students-Teaching learning process which helps in effective Lectures for Online Classes.
- Members suggested that the University should organize Faculty Development program
- Members emphasized on Webinar, Guest lectures for Students with industry experts.

Any other matter with the permission of the Chair

No other points were suggested & discussed.

Board of Studies recommended the above resolutions to be presented in the Academic Council for further final approval

The meeting ended with the vote of thanks to the Chair


Authorised Signatory


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**BOARD OF STUDIES
2020-21**

SCHOOL OF COMPUTER & SYSTEMS SCIENCES


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BOARD OF STUDIES
School of Computer & Systems Sciences
AGENDA

The meeting of the Board of Studies in the School of Computer & Systems Sciences for the year 2020-21, will be held on 5th Sept. 2020 at 2:00 pm virtually on Google Meet.
The following agenda will be discussed in the meeting:

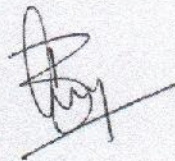
- Confirmation of the minutes of the meeting held on 18th May 2019.
- Action taken report of the meeting held on 18th May 2019.
- To discuss and approve the introduction of new scheme and syllabus of 2-year MCA programme as per the office order 'F. No. AICTE/AB/MCA/2020-21' dated 03.07.2020 by All India Council for Technical Education (AICTE).
- To discuss and approve the introduction of new Programme and syllabus of MCA with specialization in Artificial Intelligence & Machine Learning.
- To discuss and approve the introduction of new Programme and syllabus of MCA with specialization in Cyber Security.
- To discuss and approve the introduction of new Programme and syllabus of BCA with specialization in Artificial Intelligence & Machine Learning.
- To discuss and approve the introduction and Implementation of new courses in existing BCA Programme.
 - HTML Programming Lab with projects(BCAHP209P)
 - Human Values and Professional Ethics(BCAHP206)
 - MySQL (SQL/PL-SQL) Lab with Projects(BCAPL309P)
 - System Administration and Maintenance Lab (BCASA409P)
 - Management Process & Organization Behavior(BCAMO506)
 - Android Programming Lab & Minor Project(BCAAP509P)
 - 'R' Programming and Python Programming Lab(BCAST607P)
- To discuss and approve the revised curriculum of the following course in BCA Programme
 - 'R' Programming and Python Programming (BCARP604)
- To discuss and approve the introduction and Implementation of new course in existing BCA (Cyber Security) Programme and approval of it's syllabus.
 - Introduction to Cyber Security (BCSIC109)
- To discuss and approve the introduction and Implementation of new courses in existing MCA Programme and approval of its syllabus.
 - Information and Network Security(MCANS104)
 - Management Process and Org anizational behavior with Environmental Ethics(MCAMO105)
 - E-Commerce and Digital Marketing(MCAEC206)
 - Internet of Things(MCAIT302.2)
 - Big Data Analytics(MCABD305.1)

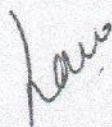

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- Human Computer Interaction(MCAHC305.4)
- Human Values & Professional Ethics(MCAHV306)
- Artificial Intelligence Lab using Python Lab(MCAAI309P)
- Research Paper Publication(MCARP402P)

- To discuss and approve the revised curriculum and syllabus of the following courses of MCA.

- Object Oriented Programming with C++ and JAVA (MCAOJ101)
- Object Oriented Programming with C++ and Java Lab (MCAOJ107P)
- Introduction to Artificial Intelligence and Machine Learning (MCAAI304)





(Prof. D K Mathur)
Registrar
Jaipur National University
Jaipur

BOARD OF STUDIES

School of Computer & Systems Sciences

Minutes of the meeting held on 5th September 2020

The meeting of the Board of Studies in the School of Computer & Systems Sciences, for the year 2020-21, was held on 5th Sept. 2020 at 2:00 pm virtually on Google Meet.

The following members attended the meeting:

S.No.	Name	Designation	Association
1.	Prof. (Dr.) H.N Verma	Chairperson	Vice Chancellor, Jaipur National University
2.	Dr. Nishta Keswani	Subject Expert (Academics)	Associate Professor & Coordinator, Big Data Analytics (in Association with TCS) Central University of Rajasthan, Ajmer, Rajasthan, India
3	Prof. (Dr.) K.P Jayant	Subject Expert (Academics)	Professor & Head Computer Science & Engineering IIMT University, Ganga Nagar, Meerut, Uttar Pradesh, India
4.	Mr. Vishal Jain	Subject Expert (Industry)	CEO & Founder-Samatrix Consulting Pvt Ltd, Gurgaon, India
5.	Prof. (Dr.) Harvir Singh	Director	Computer Science and Engineering, Jaipur National University
6.	Dr. Blessy Thankachan	Associate Professor	Assistant Director, School of Computer & Systems Sciences, Jaipur National University
7.	Dr. Vishnu Sharma	Associate Professor	Faculty Member, School of Computer & Systems Sciences
8.	Mr. Sachin Jain	Assistant Professor	Faculty Member, School of Computer & Systems Sciences
9	Mr. Vikram Singh	Assistant Professor	Faculty Member, School of Computer & Systems Sciences

Dr. Blessy Thankachan, Assistant Director, School of Computer & Systems Sciences, introduced the BOS Members.

I. Confirmation of the minutes of the meeting held on 18th May 2019

The minutes of the meeting held on 18th May 2019 were read and confirmed unanimously by all the members.

RESOLUTION
[No.: BOS/SCSS/2020/1]

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The Board of Members unanimously resolved that the minutes of BOS Meeting held on 18th May 2019 were confirmed.

II. Action taken report of the meeting held on 18th May 2019

RESOLUTION
[No.: BOS/SCSS/2020/2]

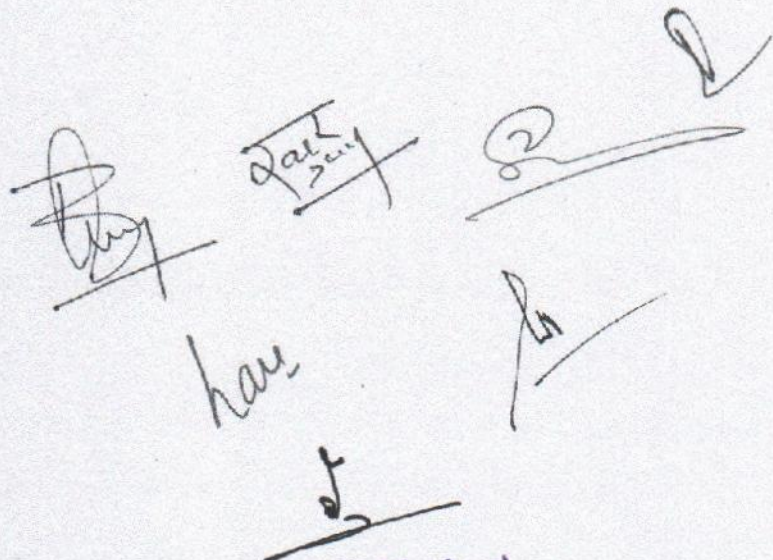
- The introduction of new programme and syllabus of BCA with specialization in Cyber Security was discussed and approved.
- The introduction of new course 'Theory of Computation' in MCA was discussed and approved

III. To discuss and approve the introduction of new scheme and syllabus of 2-year MCA programme as per the office order 'F. No. AICTE/AB/MCA/2020-21' dated 03.07.2020 by All India Council for Technical Education (AICTE).

RESOLUTION
[No.: BOS/SCSS/2020/3]

In an effort to give advantage to all the students who aspire to pursue Master in Computer Applications from all background, AICTE has issued new guidelines to reduce the total time period of the course to 2 years from 3 years. Earlier the students coming from BCA or other IT background was given lateral admission in third semester. Students from all other backgrounds had to pursue three years MCA programme.

Dr. Harvir Singh, Director briefed about the idea behind the introduction of proposed scheme and syllabus. The Board unanimously resolved the introduction of new courses and new scheme of 2-year MCA programme. The syllabus was also discussed and was approved with the suggested changes, subject to the final approval of the Academic Council. The following will be the structure of courses and schemes for the forthcoming session of MCA programme.



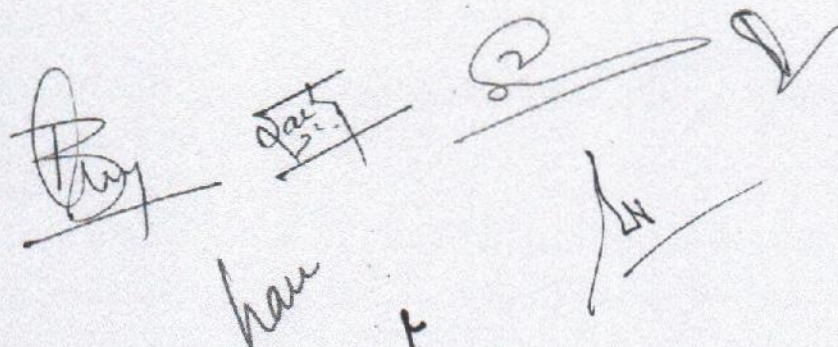
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I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	NCAOJ101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	NCADE102	Database Management System	3	1	0	20	10	70	100
3	NCAOG103	Computer Graphics	3	1	0	20	10	70	100
4	NCAEN104	Information and Network Security	3	1	0	20	10	70	100
5	NCAZO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
6	NCAES106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100
PRACTICALS									
7	NCAOJ107P	Object Oriented Programming with C++ and Java Lab	0	0	3	20	10	70	100
8	NCADE108P	Database Management System	0	0	3	20	10	70	100
9	NCAOG109P	Computer Graphics Lab	0	0	3	20	10	70	100
10	NCAEN110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
Total Contact Hrs./ Total Marks			18	4	10	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	NCAFC201	Theory of Computation	3	1	0	20	10	70	100
2	NCASE202	Software Engineering	3	0	0	20	10	70	100
3	NCAWT203	Web Technology	3	0	0	20	10	70	100
4	NCAEB204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	NCAAP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
6	NCAEC206	E-Commerce and Digital Marketing	3	1	0	20	10	70	100
PRACTICALS									
7	NCASE207P	Software Engineering Lab	0	0	3	20	10	70	100
8	NCAWT208P	Web Technology Lab	0	0	3	20	10	70	100
9	NCAAP209P	Microprocessor Lab	0	0	3	20	10	70	100
10	NCAEN210P	Seminar	0	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			18	4	10	200	100	700	1000



(Prof. D K Mathur)
 Registrar
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 Jaipur

After completion of Semester – II, students are required to undergo Summer Training.

III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCAAD301	Compiler Design	3	1	0	20	10	70	100
2	MCAAD302.1	Advanced Database Concepts	3	0	0	20	10	70	100
	MCAIT302.2	Internet of Things							
3	MCAAP303	Android Programming	3	0	0	20	10	70	100
4	MCAAF304	NET Framework and ASP.NET	3	1	0	20	10	70	100
	MCAAI304	Introduction to Artificial Intelligence and Machine Learning							
5	MCAED305.1	Big Data Analytics	3	1	0	20	10	70	100
	MCAEC305.2	Mobile Computing							
	MCAOC305.3	Cloud Computing							
	MCAHC305.4	Human Computer Interaction							
6	MCAHV306	Human Values & Professional Ethics	3	1	0	20	10	70	100
PRACTICALS									
7	MCAED307.1P	Advanced Database Concepts Lab	0	0	3	20	10	70	100
	MCAIT307.2P	Internet of Things Lab							
	MCAAP307.3P	Android Programming Lab							
8	MCAAF308P	NET Lab	0	0	3	20	10	70	100
9	MCAAI309P	Artificial Intelligence Lab using Python Lab	0	0	2	20	10	70	100
10	MCACS310P	Communication & Soft Skills	0	0	2	20	10	70	100
11	MCAST311S	Summer Training	0	0	0	80		200	200
Total Contact Hrs./ Total Marks			18	4	10	280	100	820	1200

IV SEMESTER

S.No.	Course Code	Subject	Evaluation Scheme		
			Sessional Exams	ESE	Subject Total
			200	300	500
1	MCAIT401D	Industrial Project	40	60	100
2	MCAAP402P	Research Paper Publication	240	360	600
Total Contact Hrs./ Total Marks					

- IV. To discuss and approve the introduction of new Programme and syllabus of MCA with specialization in Artificial Intelligence & Machine Learning.

RESOLUTION [No.: BOS/SCSS/2020/4]

The Board unanimously resolved that the MCA with specialization in Artificial Intelligence & Machine Learning program should be introduced as per the need of industry. Mr. Vishal Jain, CEO and Founder Samatrix Consulting Pvt. Ltd., showcased that the syllabus proposed for the specialization program in AIML was completely project based, and the students from I semester itself will be involved in live projects which will make them industry ready by the time they finish the course. The syllabus was discussed and approved with the suggested changes, subject to the final approval of the Academic Council. The following will be the structure of courses and schemes for the forthcoming session of MCA with specialization in Artificial Intelligence & Machine Learning programme.

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Jaipur National University
Jaipur

I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCIOJ101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	MCIDB102	Database Management System	3	1	0	20	10	70	100
3	MCICG103	Computer Graphics	3	1	0	20	10	70	100
4	MCIDA104	Overview of Data Science, AI, Ethics and Foundation of Data Analysis	2	0	2	20	10	70	100
5	MCDMO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
6	MCIDS106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100
PRACTICALS									
7	MCIOJ107P	Object Oriented Programming with Java Lab	0	0	3	20	10	70	100
8	MCIDB108P	Database Management System	0	0	2	20	10	70	100
9	MCICG109P	Computer Graphics Lab	0	0	2	20	10	70	100
10	MCIDS110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
Total Contact Hrs./ Total Marks			17	3	12	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCITC201	Theory of Computation	3	1	0	20	10	70	100
2	MCISE202	Software Engineering	3	0	0	20	10	70	100
3	MCITW203	Web Technology	3	0	0	20	10	70	100
4	MCICE204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	MCIDP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
6	MCIDP206	Data Analysis using Python	2	0	2	20	10	70	100
7	MCIPM207	Probabilistic Modelling and Reasoning with Python	2	0	2	20	10	70	100
PRACTICALS									
8	MCISE208P	Software Engineering Lab	0	0	3	20	10	70	100
9	MCITW209P	Web Technology Lab	0	0	3	20	10	70	100
10	MCIMP210P	Microprocessor Lab	0	0	2	20	10	70	100
Total Contact Hrs./ Total Marks			19	3	12	200	100	700	1000




 (Prof. D.K. Mathur)
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 Jaipur

After completion of Semester – II, students are required to undergo Summer Training.

III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme		
			L	T	P	Sessional Exams		Subject Total
						CT	TA	
1	MCICD301	Compiler Design	5	1	0	20	10	70
2	MCICD302.1	Advanced Database Concepts	3	0	0	20	10	70
	MCICD302.2	Internet of Things						
3	MCICD302.3	Android Programming	3	0	0	20	10	70
4	MCINF303	NET Framework and ASP.NET	3	0	0	20	10	70
5	MCIMP304	Machine Learning and Pattern Recognition	2	0	2	20	10	70
6	MCIDB305.1	Big Data Analytics	3	1	0	20	10	70
	MCIMC305.2	Mobile Computing						
	MCICC305.3	Cloud Computing						
	MCIMC305.4	Human Computer Interaction						
7	MCIRV306	Human Values & Professional Ethics	5	1	0	20	10	70
8	MCIRP307	R Programming for Data Science and Analysis	2	0	2	20	10	70
PRACTICALS								
9	MCIDB308.1P	Advanced Database Concepts Lab	0	0	3	20	10	70
	MCICD308.2P	Internet of Things Lab						
	MCICD308.3P	Android Programming Lab						
10	MCINF309P	NET Lab	0	0	3	20	10	70
11	MCICD310P	Communication & Soft Skills	0	0	2	20	10	70
12	MCIRV311S	Summer Training	0	0	0	80	200	200
Total Contact Hrs. / Total Marks			19	3	12	280	100	820

IV SEMESTER

S.No.	Course Code	Subject	Evaluation Scheme		
			Sessional Exams	ESE	Subject Total
1	MCIT401D	Industrial Project	200	300	500
2	MCIRP402P	Research Paper Publication	40	60	100
Total Contact Hrs. / Total Marks			240	360	600

- V. To discuss and approve the introduction of new Programme and syllabus of MCA with specialization in Cyber Security

RESOLUTION

[No.: BOS/SCSS/2020/5]

The Board unanimously resolved that the MCA with specialization in Cyber Security program should be introduced as per the need of industry. The syllabus was also discussed and approved with the suggested changes, subject to the final approval of the Academic Council. The following will the structure of courses and schemes for the forthcoming session of MCA with specialization in Cyber Security programme.

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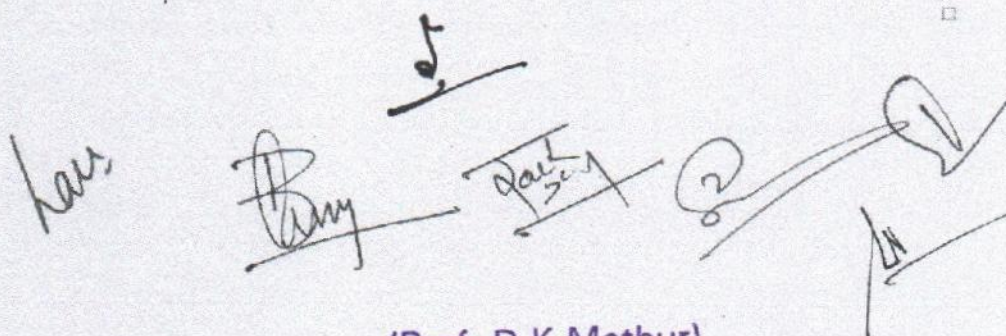
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Jaipur

I SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MC80J101	Object Oriented Programming with C++ and JAVA	3	0	0	20	10	70	100
2	MC8DB102	Database Management System	3	1	0	20	10	70	100
3	MC8CG103	Computer Graphics	3	1	0	20	10	70	100
4	MC8CS104	Introduction to cyber security	2	0	2	20	10	70	100
5	MC8MO105	Management Process and Organizational behavior with Environmental Ethics	3	0	0	20	10	70	100
6	MC8DS106	Advance Data Structure and Algorithm Analysis	3	1	0	20	10	70	100
PRACTICALS									
7	MC80J107P	Object Oriented Programming with C++ and Java Lab	0	0	3	20	10	70	100
8	MC8DB108P	Database Management System	0	0	2	20	10	70	100
9	MC8CG109P	Computer Graphics Lab	0	0	2	20	10	70	100
10	MC8DS110P	Advance Data Structure and Algorithm Analysis Lab	0	0	3	20	10	70	100
Total Contact Hrs. Total Marks			17	3	12	200	100	700	1000

II SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MC8TC201	Theory of Computation	3	1	0	20	10	70	100
2	MC8SE202	Software Engineering	3	0	0	20	10	70	100
3	MC8WT203	Web Technology	3	0	0	20	10	70	100
4	MC8CB204	Computer Based Optimization Techniques	3	1	0	20	10	70	100
5	MC8MP205	Microprocessor & Assembly Language Programming	3	1	0	20	10	70	100
6	MC8EC206	E-Commerce and Digital Marketing	3	1	0	20	10	70	100
7	MC8NV207	Network Security Design & Implementation	2	0	2	20	10	70	100
PRACTICALS									
8	MC8SE208P	Software Engineering Lab	0	0	3	20	10	70	100
9	MC8WT209P	Web Technology Lab	0	0	3	20	10	70	100
10	MC8MP210P	Microprocessor Lab	0	0	2	20	10	70	100
Total Contact Hrs. Total Marks			20	4	10	200	100	700	1000



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After completion of Semester – II, students are required to undergo for Summer Training.

III SEMESTER

S.No.	Course Code	Subject	Periods			Evaluation Scheme			
			L	T	P	Sessional Exams		ESE	Subject Total
						CT	TA		
1	MCSAD301	Compiler Design	3	1	0	20	10	70	100
2	MCSAD302	Advanced Database Concepts	3	0	0	20	10	70	100
	MCSIT303	Internet of Things							
3	MCSAP304	Android Programming	3	0	0	20	10	70	100
4	MCSNF305	NET Framework and ASP.NET	3	0	0	20	10	70	100
	MCSAI304	Introduction to Artificial Intelligence and Machine Learning							
5	MCSBD305	Big Data Analytics	3	1	0	20	10	70	100
	MCSAC305	Mobile Computing							
	MCSOC305	Cloud Computing							
	MCSHC305	Human Computer Interaction							
6	MCSHV306	Human Values & Professional Ethics	3	1	0	20	10	70	100
*	MCSIA307	Application Security Testing and Audit	2	0	2	20	10	70	100
PRACTICALS									
8	MCSDB308	Advanced Database Concepts Lab	0	0	3	20	10	70	100
	MCSIT308	Internet of Things Lab							
	MCSAP308	Android Programming Lab							
9	MCSNF309	NET Lab	0	0	3	20	10	70	100
10	MCSCE310	Communication & Soft Skills	0	0	2	20	10	70	100
11	MCSST311	Summer Training	0	0	0	80		120	200
Total Contact Hrs./ Total Marks			20	4	10	250	100	820	1200

IV SEMESTER

S.No.	Course Code	Subject				Evaluation Scheme		
						Sessional Exams	ESE	Subject Total
1	MCSIT401D	Industrial Training				200	300	500
2	MCSRP402P	Research Paper Publication				40	60	100
Total Contact Hrs./ Total Marks						240	360	600

- VI. To discuss and approve the introduction of new Programme and syllabus of BCA with specialization in Artificial Intelligence & Machine Learning.

RESOLUTION

[No.: BOS/SCSS/2020/6]

The Board unanimously resolved that the BCA with specialization in Artificial Intelligence & Machine Learning program should be introduced as per the need of industry. The syllabus was discussed and approved with the suggested changes, subject to the final approval of the Academic Council. The following will be the structure of courses and schemes for the forthcoming session of BCA with specialization in Artificial Intelligence & Machine Learning.

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Syllabus Outline

Semester-I

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCICP101	Introduction to Problem Solving using 'C'	DSC	3	3	0	0	1	-----
2	BCIPC102	Fundamentals of Computers and PC Tools	DSC	3	3	0	0	1	-----
3.	BCIEN103	Elementary Mathematics	DSC	4	3	1	0	1	-----
4	BCIDE104	Digital Electronics	DSE	3	3	0	0	1	-----
5	BCICP106P	C Programming Lab	DSC	2	0	0	4	-----	2
6	BCIOA107P	Office Automation Tool Lab	DSC	2	0	0	4	-----	2
7	BCIDE108P	Digital Electronics Lab	DSE	2	0	0	4	-----	2
8	BCIEN105	English-I	AEC	2	2	0	0	1	-----
9	BCIFA109	Overview of Artificial Intelligence, Ethics and Foundation of Data Analytics	SEC	3	2	0	2	1	-----
Total				24	31			-----	

Semester - II

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1	BCIDB201	Database Management System	DSC	3	3	0	0	1	-----
2	BCIDM202	Discrete Mathematics	DSC	4	3	1	0	1	-----
3	BCIDS203	Analysis of Algorithms and Data Structures	DSC	4	3	1	0	1	-----
4	BCIES204	Environment Science	AEOC	2	2	0	0	1	-----
5	BCIHP205	HTML Programming	SEC	3	3	0	0	1	2
6	BCIHP206P	Human Values and Professional Ethics	AEOC	2	2	0	0	1	-----
7	BCIDB207P	Database Management System Lab	DSC	2	0	0	4	-----	2
8	BCIDS208P	Data Structures Using 'C' Lab	DSE	2	0	0	4	-----	2
9	BCIHP209P	HTML Programming Lab with projects	SEC	2	0	0	2+2	-----	2
10	BCIDD210	Data Analysis and Data Visualization using Python	SEC	3	2	0	2	1	-----
Total				27	34			-----	

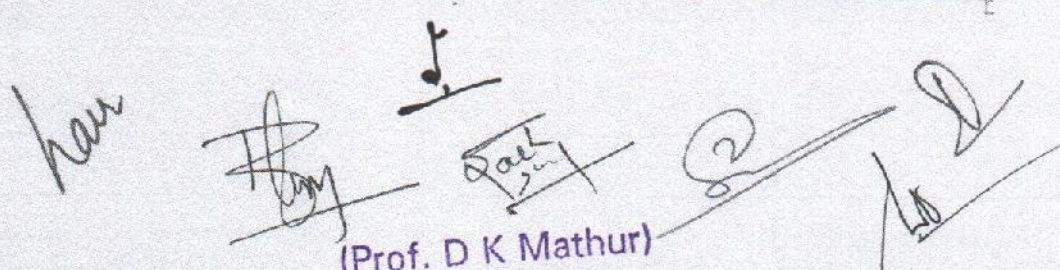
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Semester-III

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCIOS301	Operating System	DSC	3	3	0	0	1	----
2.	BCIOO302	OOPS Using C++	DSC	3	3	0	0	1	----
3.	BCISE303	Software Engineering	DSC	3	3	0	0	1	----
4.	BCICN304	Computer Networks	DSE	4	3	1	0	1	----
5.	BCIPL305	MySQL (SQL PL-SQL)	SEC	3	3	0	0	1	----
6.	BCIOS306P	Operating Systems Lab	DSC	2	0	0	4	0	2
7.	BCIOO307P	OOPs Using C++ Lab	DSC	2	0	0	4	0	2
8.	BCISE308P	Software Engineering Lab	DSC	1	0	0	2	0	2
9.	BCIPL309P	MySQL (SQL PL-SQL) Lab with Projects	SEC	1	0	0	2	0	2
10.	BCIRP310	R Programming for Data Analytics	SEC	3	2	0	2	1	----
Total				25	32				

Semester-IV

			Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCICA401	Computer Architecture	DSC	4	3	1	0	1	----
2.	BCIPJ402	Programming in Java	DSC	3	3	0	0	1	----
3.	BCIHW403	Internet and Web Design	DSE	3	3	0	0	1	----
4.	BCIEC404	E-Commerce Technologies	DSE	4	3	1	0	1	----
5.	BCISA405	System Administration and Network Maintenance	SEC	3	3	0	0	1	2
6.	BCIHP407P	Java Programming Lab	DSC	2	0	0	4	0	2
7.	BCIHW408P	Internet and Web Design Lab	DSC	2	0	0	2	0	2
8.	BCIEN406	English-II	AEC	2	2	0	0	1	
9.	BCISA409P	System Administration and Maintenance Lab	SEC	1	0	0	2	----	2
10.	BCIML410	Foundation of Machine Learning	SEC	2	2	0	0	1	----
11.	BCIML411P	Machine Learning Lab Using Python	SEC	1	0	0	2	----	2
Total				27	31				


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 Registrar
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Semester-V

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCDIA501	Multimedia Applications	DSC	3	3	0	0	1	----
2.	BCIPD502	Programming in .NET	DSC	3	3	0	0	1	----
3.	BCIDM503	Data Warehousing and Data Mining	DSC	3	3	0	0	1	----
4.	BCIMO504	Mobile Applications	DSE	3	3	0	0	1	----
5.	BCIAP505	Android Programming	SEC	3	3	0	0	1	2
6.	BCIMO506	Management Process & Organization Behavior	SEC	2	2	0	0	1	---
7.	BCDIA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCIPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9.	BCIAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	---
10.	BCINN510	Foundation of Neural Network and Deep Learning	SEC	3	2	0	2	1	---
11.	BCIDV511	Data Visualization	SEC	3	2	0	2	1	---
Total				23	35			-----	

S. No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCIPH601	PHP Programming	DSC	3	3	0	0	1	----
3.	BCICC602	Cloud Computing	DSE	3	3	0	0	1	----
4.	BCIST603	Software Testing Concepts	DSE	4	3	1	0	1	----
4.	BCIRP604	'R' Programming and Python Programming	SEC	3	3	0	0	1	2
5.	BCIPH605P	PHP Lab	DSC	2	0	0	4	0	2
6.	BCICC606P	Cloud Computing Lab	DSC	2	0	0	4	0	2
7.	BCIST607P	'R' Programming and Python	SEC	2	0	0	4	0	2
8.	BCIAP608P	AI/ML Project	DSC	4	0	0	4	1	----
Total				23	19			-----	

VII. To discuss and approve the introduction and Implementation of new courses in existing BCA Programme and approval of its syllabus.

- HTML Programming Lab with projects(BCAHP209P)
- Human Values and Professional Ethics(BCAHP206)
- MySQL (SQL/PL-SQL) Lab with Projects(BCAPL309P)
- System Administration and Maintenance Lab(BCASA409P)
- Management Process & Organization Behavior(BCAMO506)
- Android Programming Lab & Minor Project(BCAAP509P)
- 'R' Programming and Python Programming Lab(BCAST607P)

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RESOLUTION
[No.: BOS/SCSS/2020/7]

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The Board unanimously resolved newly introduced courses and structure of the below mentioned courses is appreciated and approved with the suggested changes, subject to the final approval of the Academic Council. The following is list of new courses.

- HTML Programming Lab with projects(BCAHP209P)
- Human Values and Professional Ethics(BCAHP206)
- MySQL (SQL/PL-SQL) Lab with Projects(BCAPL309P)
- System Administration and Maintenance Lab(BCASA409P)
- Management Process & Organization Behavior(BCAMO506)
- Android Programming Lab & Minor Project(BCAAP509P)
- 'R' Programming and Python Programming Lab(BCAST607P)

VIII. To discuss and approve the revised curriculum of the following course in BCA Programme.

- 'R' Programming and Python Programming (BCARP604)

RESOLUTION
[No.: BOS/SCSS/2020/8]

The Board unanimously resolved that the revised structure of the below mentioned course is revised to include python programming, subject to the final approval of the Academic Council. The following changes were suggested in the courses.

Old name of the Course with code	New name of the Course with code	Changes/ revision carried out
'R'-Programming (2018-BCASE-605)	'R' Programming and Python Programming (BCARP604)	Python programming was also included in revised curriculum

IX. To discuss and approve the introduction and Implementation of new course in existing BCA (Cyber Security) Programme and approval of its syllabus.

- Introduction to Cyber Security (BCSIC109)

RESOLUTION
[No.: BOS/SCSS/2020/9]

To provide an enhanced learning experience to the students enrolled in specialization programme of Cyber Security, the board unanimously resolved to introduce the specialized subjects from the first semester itself. Earlier the specialization subjects were starting from the II Semester. The syllabus was appreciated and approved with the suggested changes, subject to the final approval of the Academic Council. The following course was introduced in the first semester of BCA with specialization in Cyber Security.

Introduction to Cyber Security (BCSIC109)

X. To discuss and approve the introduction and Implementation of new courses in existing MCA Programme and approval of its syllabus.

- Information and Network Security(MCANS104)
- Management Process and Organizational behavior with Environmental Ethics(MCAMO105)
- E-Commerce and Digital Marketing(MCAEC206)

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- Internet of Things(MCAIT302.2)
- Big Data Analytics(MCABD305.1)
- Human Computer Interaction(MCAHC305.4)
- Human Values & Professional Ethics(MCAHV306)
- Artificial Intelligence Lab using Python Lab(MCAAI309P)
- Research Paper Publication(MCARP402P)

RESOLUTION
[No.: BOS/SCSS/2020/10]

The Board unanimously resolved newly introduced courses and structure of the below mentioned courses. The syllabus was also approved with the suggested changes, subject to the final approval of the Academic Council. The following is list of new courses in MCA.

- Information and Network Security(MCANS104)
- Management Process and Organizational behavior with Environmental Ethics(MCAMO105)
- E-Commerce and Digital Marketing(MCAEC206)
- Internet of Things(MCAIT302.2)
- Big Data Analytics(MCABD305.1)
- Human Computer Interaction(MCAHC305.4)
- Human Values & Professional Ethics(MCAHV306)
- Artificial Intelligence Lab using Python Lab(MCAAI309P)
- Research Paper Publication(MCARP402P)

XI. To discuss and approve the revised curriculum and syllabus of the following courses of MCA.

- Object Oriented Programming with C++ and JAVA(MCAOJ101)
- Object Oriented Programming with C++ and Java Lab(MCAOJ107P)
- Introduction to Artificial Intelligence and Machine Learning(MCAAI304)

RESOLUTION
[No.: BOS/SCSS/2020/11]

The Board unanimously resolved that the revised structure of the below mentioned courses is appreciated and approved with the suggested changes, subject to the final approval of the Academic Council. The following changes were suggested in the courses.

Old name of the Course with code	New name of the Course with code	Changes/ revision carried out
Object Oriented Programming(MCA-301)	Object Oriented Programming with C++ and JAVA(MCAOJ101)	Java was also included in revised curriculum
Object Oriented Programming Lab(MCA-351)	Object Oriented Programming with C++ and Java Lab(MCAOJ107P)	Java Programs were also included in revised curriculum
Artificial Intelligence(MCA-304)	Introduction to Artificial Intelligence and Machine Learning(MCAAI304)	Machine Learning related topics were added in unit-4 & unit-5.

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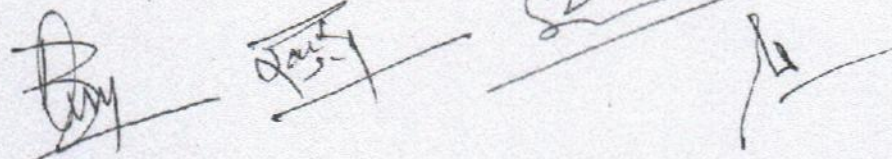
General Discussions:

1. Dr. Nistha Keswani suggested that a bunch of courses can be included as elective courses to provide the ease for the students and faculty members to select the courses as per the availability of faculty members.
2. Prof.(Dr.) K P Jayant suggested that project based learning should be emphasized specially in the specialization Programmes of MCA and BCA to impose more experiential and participative learning experience to the students.
3. Workshops and Seminars on latest industry trends should be conducted on a regular basis.
4. Students should join online webinar/ STTP to enhance their knowledge on current technology.
5. BoS external members suggested that following value added courses should be organized for the students as per the availability of course trainer and students interest.
 - Python Boot Camp for beginners and Intermediates
 - Cloud Technologies- Open Stack Administration
 - Microsoft certified Ethical Hacking

Board of Studies recommended the above resolutions to be presented in the Academic Council for further final approval. The meeting ended with the vote of thanks to the Chair.

(Prof. (Dr.) H.N Verma)
Chairperson

(Prof. D.K Mathur)
Registrar
Jaipur National University
Jaipur


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I. As per the suggestions received from the External BOS Committee Members, the syllabi of BCA, BCA specialization in Cyber Security and BCA specialization in Artificial Intelligence and Machine Learning was suggested and approved under the elective scheme.

The following courses were introduced as Discipline Specific Elective Courses in V Semester:

- Advanced Data Structures and Algorithms (BCAAS506.1) ← Newly Introduced
- Internet of Things (BCAIT506.2) ← Newly Introduced
- Data Warehousing and Data Mining (BCADM506.3)

The revised schemes of V Semester in respective Programmes are placed herewith:

Semester-V									
S. No.	Course Code	Course Nomenclature	Course Category (Core/ Elective)	Credit	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCAMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCAPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCAMO503	Management Process & Organization	SEC	2	2	0	0	1	---
4.	BCAMO504	Mobile Applications	DSC	4	3	1	0	1	-----
5.	BCAAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCAAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCAIT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCADM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCAMA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCAPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9.	BCAAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
Total				27	32			-----	

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Semester-V

S.No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCSMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCSPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCSMO503	Management Process &	SEC	2	2	0	0	1	---
4.	BCSMO504	Mobile Applications	DSE	4	3	1	0	1	-----
5.	BCSAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCSAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCSIT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCSDM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCSMA507P	Multimedia (FLASH as a multimedia SAV) Lab	DSC	2	0	0	4	0	2
8.	BCSPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9.	BCSAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
10.	BCSSR510	Software Reverse Engineering and Cyber Forensics	SEC	3	2	0	2	1	1
Total				30	31			-----	

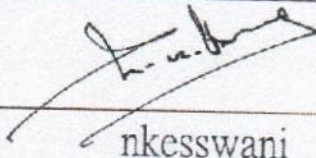


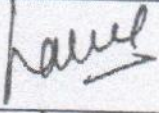
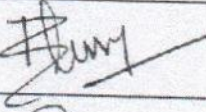



Semester-V

S.No.	Course Code	Course Nomenclature	Course Category (Core/Elective)	Credits	Contact-Per Week			Class Duration	
					L	T	P	Theory	Practical
1.	BCIMA501	Multimedia Applications	DSC	4	3	1	0	1	-----
2.	BCIPD502	Programming in .NET	DSC	4	3	1	0	1	-----
3.	BCIMO503	Management Process & Organization Behavior	SEC	2	2	0	0	1	---
4.	BCIMO504	Mobile Applications	DSE	4	3	1	0	1	-----
5.	BCIAP505	Android Programming	SEC	4	3	1	0	1	2
6.	BCIAS506.1	Advanced Data Structures and Algorithms	DSE	4	3	1	0	1	-----
	BCHT506.2	Internet of Things	DSE	4	3	1	0	1	-----
	BCIDM506.3	Data Warehousing and Data Mining	DSE	4	3	1	0	1	-----
7.	BCIMA507P	Multimedia (FLASH as a multimedia SAV)	DSC	2	0	0	4	0	2
8.	BCIPD508P	.NET Programming Lab	DSC	2	0	0	4	0	2
9.	BCIAP509P	Android Programming Lab & Minor Project	SEC	1	0	0	2	0	
10.	BCINN510	Foundation of Neural Network and Deep Learning	SEC	3	3	0	0	1	---
11.	BCIDV511	Data Visualization	SEC	3	3	0	0	1	---
Total				33	36			-----	

Note: Syllabus attached as Annexure

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**Attendance of the Board of Members for the BOS Meeting of SCSS held on
5th September 2020**

S. No.	Name	Signature
1.	Prof. H.N Verma	
2.	Dr. Nistha Keswani	nkesswani
3	Prof. (Dr.) K.P Jayant	
4.	Mr. Vishal Jain	
5.	Prof. Dr. Harvir Singh	
6.	Dr. Blessy Thankachan	
7.	Dr. Vishnu Sharma	
8.	Mr. Sachin Jain	
9.	Mr. Vikram Singh	


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