



The ICFAI University, Tripura

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Ref:

Date: 28/08/2017

Minutes of the Meeting of the Board of Studies (BOS) held on 28th August 2017 at 11:00 AM in Board Room regarding the programme of BCA, BCA-MCA (Integrated) course

Members Present in the meeting -

1. Prof. Biplab Halder, Pro-Vice Chancellor, ICFAI University, Tripura (Chairperson).
2. Dr. P.R. Borthakur (Coordinator, Faculty of Science and Technology, ICFAI University, Tripura).
3. Prof. B.V. Srikanth (HoD, Computer Science and Engineering, ICFAI University, Tripura).
4. Prof. Abhijit Biswas (Internal member, Assistant Professor, Computer Science and Engineering, ICFAI University, Tripura).
5. Dr. T. K. Basu (External member, Retired Professor, IIT Kharagpur), joined through video conferencing.

Agenda -

- I. Modification of syllabus for BCA, BCA-MCA (Integrated) course.
- II. List of elective papers to be included in the aforesaid programme.
- III. Credit distribution for BCA, BCA-MCA (Integrated) course.
- IV. Any other with the approval of the chair.

Minutes of meeting -

- I. The chairperson welcomed the members and introduced external BOS member to the board and further internal members introduced themselves.
- II. Chairperson advised the coordinator of FST to proceed with the meeting as per the agendas.
- III. HoD, CSE made a presentation on the proposed curriculum for BCA, BCA-MCA (Integrated) course and discussed the new courses which need to be introduced in the Programme.
- IV. It was unanimously resolved that the modification (refer Annexure I) of the syllabus in the existing programme was approved by the members of BOS and it was decided that the said revision will be sent to the Academic Council of the university for the final approval.
- V. It was resolved that the course-specific outcome and program outcome should be well defined and should get integrated into the current syllabus.
- VI. Regarding the list of elective courses, the list of elective courses was produced by the HoD, CSE which would be offered for the programme.
 - Elective Courses for BCA, BCA-MCA(Integrated) course

Course Code	Course Title	L P U
CS423T	Network Programming	3 0 3
CS423P	Network Programming Practical	0 3 2
CS417T	Structured Query Language and Database Applications	3 0 3
CS417P	Structured Query Language and Database Applications Practical	0 3 2


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MCIC405T	Advanced Operating System	3 0 3
MCIC405P	Advanced Operating System Practical	0 3 2
MCIC409T	Advanced Computer Networks	3 0 3
MCIC409P	Advanced Computer Networks Practical	0 3 2
MCIC407T	Advanced Data Structure	3 0 3
MCIC407P	Advanced Data Structure Practical	0 3 2
CS430T	Multimedia Computing	3 0 3
CS430P	Multimedia Computing Practical	0 3 2
CS403T	Parallel Computing	3 0 3
CS403P	Parallel Computing Practical	0 3 2


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CS443T	Unix and Shell Programming	3 0 3
CS443P	Unix and Shell Programming	0 3 2
CSE424T	Advance Database Management System	3 0 3
CSE424P	Advance Database Management System Practical	0 3 2
CS438	E-Commerce	3 0 3
MCIC303	Software Testing and Quality Management	3 0 3
CS413	Real Time Systems	3 0 3
CS422	Design Patterns	3 0 3
CS427	Software Testing Methods	3 0 3
CS430	Software Process & Project Management	3 0 3
CS420	Parallel Programming	3 0 3
EC432	Fiber Optics & Opto Electronics	3 0 3

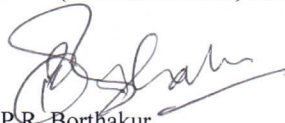
- VII. With regards to the number of credits for courses, all members of the board agreed that each theory course offered by the BCA, BCA-MCA(Integrated) course should be worth 3 credits and each practical course should be worth 2 credits.
- VIII. Course codes of a few courses were modified.
- IX. The meeting got successfully concluded with a Vote of Thanks from the chairperson.



Prof. B.V. Srikanth
(HoD, CSE, FST)



Prof. Abhijit Biswas
(Internal Member, CSE, FST)



Dr. P.R. Borthakur
(Co ordinator, FST)



Chairperson
Board of Studies
Computer Science and Engineering
Faculty of Science and Technology
ICFAI University, Tripura

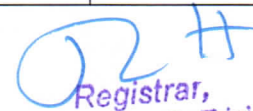


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Annexure I


**Existing Program Structure of BCA, BCA-MCA(Integrated) up to July 2018
(Program Code – FST008)**

1 st Year							
SEM I				SEM II			
SL No	Course Code	Course Title	L P U	SL No	Course Code	Course Title	L P U
1	EGL111	English Language Skills I	3 0 3	1	EGL122	English Language Skills II	3 0 3
2	BCAC101T	C Programming	3 0 3	2	MGT122	Fundamentals of Finance & Accounting	3 0 3
3	BCAC101P	C Programming Practical	0 3 2	3	MATH102	Mathematics II	3 0 3
4	MATH101	Mathematics I	3 0 3	4	BCAC103T	Object Oriented Programming through C ++	3 0 3
5	MATH111	Probability and Statistics	3 0 3	5	BCAC103P	Object Oriented Programming through C ++ Practical	0 3 2
6	MGT102	Principles of Management	3 0 3	6	ECN101	Principles of Economics	3 0 3
7	BCAC102	Computer Organization	3 0 3	7	BCAC104	Information Technology Trends	3 0 3
			Unit=20			Unit=20	
BCAIP101 SUMMER PROJECT-I [Units = 5]							
2 nd Year							
SEM I				SEM II			
SL No	Course Code	Course Title	L P U	SL No	Course Code	Course Title	L P U
1	CS325T	Data Communication & Computer Networks	3 0 3	1	SSU244	Soft Skills-I	3 0 3
2	CS325P	Data Communication & Computer Networks Practical	3 0 2	2	BCAC206	Software Engineering	3 0 3
3	CS429T	Web Technologies	3 0 3	3	CS312T	Java Programming	3 0 3
4	CS429P	Web Technologies Practical	0 3 2	4	CS312P	Java Programming Practical	0 3 2
5	CS313T	Operating Systems	3 0 3	5	MATH303	Operations Research	3 0 3
6	CS313P	Operating Systems Practical	0 3 2	6	ENV222	Environmental Studies	3 0 3
7	EGL233	Technical Report Writing	3 0 3	7	CS311T	Database Management Systems	3 0 3
8	BCAC201	System Analysis and Design	3 0 3	8	CS311P	Database Management Systems Practical	0 3 2
9	CS314T	Data Structures & Algorithms	3 0 3				
10	CS314P	Data Structures &	0 3 2				


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		Algorithms Practical					
			Unit=26				Unit=22
3rd Year							
SEM I				SEM II			
SL No	Course Code	Course Title	L P U	SL No	Course Code	Course Title	L P U
1	BCAC304T	Advance Java Programming	3 0 3	1	CS440T	Smartphone Computing and Applications	3 0 3
2	BCAC304P	Advance Java Programming Practical	0 3 2	2	CS440P	Smartphone Computing and Applications Practical	0 3 2
3	BCAC305T	Computer Graphics	3 0 3	3	BCAC308	IT Project	6 0 6
4	BCAC305P	Computer Graphics Practical	0 3 2	4	CSA323T	Compiler Design	3 0 3
5	CS428	Theory of Computation	3 0 3	5	CSA324T	PHP with MySql	3 0 3
6	BCAC351T	Windows Applications using Dot Net Technologies	3 0 3	6	CSA324P	PHP with MySql Practical	0 3 2
7	BCAC351P	Windows Applications using Dot Net Technologies Practical	0 3 2	7	CSA325T	Web Applications using Dot Net Technologies	3 0 3
8	BCAC352T	Python Programming	3 0 3	8	CSA325P	Web Applications using Dot Net Technologies Practical	0 3 2
9	BCAC352P	Python Programming Practical	0 3 2	9	CSA326T	Internet of Things	3 0 3
10		Elective I	3 0 3	10		Elective II	3 0 3
			Unit=26				Unit=30

4th Year							
Sl. No.	Course No.	Semester-I	L P U	Sl. No.	Course No.	Semester-II	L P U
1	CS421T	Data Warehousing and Data Mining	3 0 3	1	CS225T	Object Oriented Analysis and Design with Unified Modeling Language	3 0 3
2	CS421P	Data Warehousing and Data Mining Practical	0 3 2	2	CS225P	Object Oriented Analysis and Design with Unified Modeling Language Practical	0 3 2
3	BCAC305T	Computer Graphics	3 0 3	3	SSU485	Soft Skills-II	3 0 3
4	BCAC305P	Computer Graphics Practical	0 3 2	4	CS405T	Artificial Intelligence	3 0 3
5	CS437	Cloud Computing	3 0 3	5	CS405P	Artificial Intelligence Practical	0 3 2


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6	MCAC452	Parallel and Distributed Database Systems	3 0 3	6	CS441	Big Data Analysis	3 0 3
7	MCAC451	Natural Language Processing and Machine Translation	3 0 3	7	CSA426T	Enterprise Application development using Java	3 0 3
8	CSA324T	PHP with MySql	3 0 3	8	CSA426P	Enterprise Application development using Java Practical	0 3 2
9	CSA324P	PHP with MySql Practical	0 3 2	9	CSA425T	Digital Image Processing	3 0 3
		TOTAL UNITS	24 Units			TOTAL UNITS	24 Units

5th Year

Sl. No.	Course No.	Semester-III	L P U	Sl. No.	Course No.	Semester-IV	L P U
1	CS223	Design and Analysis of Algorithm	3 0 3	1	MCIC503	Major Information Technology Project	0 0 22
2	SSP243	Soft Skills-III	3 0 3	2			Unit=22
3		Elective 1 (Theory)	3 0 3	3			
4		Elective 1 (Practical)	0 3 2	4			
5		Elective 2 (Theory)	3 0 3	5			
6		Elective 2 (Practical)	0 3 2	6			
7		Elective 3 (Theory)	3 0 3	7			
8		Elective 3 (Practical)	0 3 2	8			
9		Elective 4	3 0 3	9			
			Unit=24				

Revised Program Structure of BCA with effect from August 2018

	Semester – I			Semester – II		
	Course Code	Course Title	L P U	Course Code	Course Title	L P U
1st Year	EGL111	English Language Skills I	3 0 3	EGL122	English Language Skills II	3 0 3
	TA121T	C Programming	3 0 3	MGT122	Fundamentals of Finance & Accounting	3 0 3
	TA121P	C Programming Practical	0 3 2	MATH102	Mathematics II	3 0 3
	MATH101	Mathematics I	3 0 3	CS212T	Object Oriented Programming through C ++	3 0 3
	MATH111	Probability and Statistics	3 0 3	CS212P	Object Oriented Programming through C ++ Practical	0 3 2
	MGT102	Principles of Management	3 0 3	ECN101	Principles of Economics	3 0 3
	BCAC104	Information Technology Trends	3 0 3	CS314T	Data Structures & Algorithms	3 0 3
				CS314P	Data Structures & Algorithms Practical	0 3 2


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		Unit=20		Unit=22		
BCAIP101 SUMMER PROJECT-I [Units = 5]						
2nd Year	Semester – I			Semester – II		
	Course Code	Course Title	L P U	Course Code	Course Title	L P U
	CS325T	Data Communication & Computer Networks	3 0 3	SSU244	Soft Skills-I	3 0 3
	CS325P	Data Communication & Computer Networks Practical	3 0 2	CS429T	Web Technologies	3 0 3
	CS311T	Database Management Systems	3 0 3	CS429P	Web Technologies Practical	0 3 2
	CS311P	Database Management Systems Practical	0 3 2	BCAC206	Software Engineering	3 0 3
	CS313T	Operating Systems	3 0 3	CS312T	Java Programming	3 0 3
	CS313P	Operating Systems Practical	0 3 2	CS312P	Java Programming Practical	0 3 2
	EGL233	Technical Report Writing	3 0 3	MATH303	Operations Research	3 0 3
	BCAC201	System Analysis and Design	3 0 3	ENV222	Environmental Studies	3 0 3
	CS323	Computer Organization and Architecture	3 0 3			
			Unit=24			Unit=22
BCAIP201 SUMMER PROJECT-II [Units = 5]						
3rd Year	Semester – I, 2021-22			Semester – II, 2021-22		
	Course Code	Course Title	L P U	Course Code	Course Title	L P U
	CS428	Theory of Computation	3 0 3	MCIC306T	Multimedia Systems	3 0 3
	MISE306	Management Information Systems	3 0 3	MCIC306P	Multimedia Systems Practical	0 3 2
	BCAC304T	Advance Java Programming	3 0 3	MCIC309	Mini Information Technology Project	6 0 6
	BCAC304P	Advance Java Programming Practical	0 3 2	ES209	Digital Electronics and Micro Processors	3 0 3
	CS424T	Network Security	3 0 3	CSA323T	Compiler Design	3 0 3
	CS424P	Network Security Practical	0 3 2	CS440T	Smartphone Computing and Applications	3 0 3
	BCAC352T	Python Programming	3 0 3	CS440P	Smartphone Computing and Applications Practical	0 3 2
	BCAC352P	Python Programming Practical	0 3 2	CSA325T	Web Applications using Dot Net Technologies	3 0 3
	BCAC351T	Windows Applications using Dot Net Technologies	3 0 3	CSA325P	Web Applications using Dot Net Technologies Practical	0 3 2
	BCAC351P	Windows Applications using Dot Net Technologies Practical	0 3 2	CSA326T	Internet of Things	3 0 3
		Unit=26			Unit=30	

4th year					
Semester – I, 2022-23			Semester – II, 2022-23		
Course Code	Course Title	L P U	Course Code	Course Title	L P U
CS421T	Data Warehousing and Data Mining	3 0 3	CS225T	Object Oriented Analysis and Design with Unified Modeling Language	3 0 3
CS421P	Data Warehousing and Data Mining Practical	0 3 2	CS225P	Object Oriented Analysis and Design with Unified Modeling Language Practical	0 3 2
BCAC305T	Computer Graphics	3 0 3	SSU485	Soft Skills-II	3 0 3
BCAC305P	Computer Graphics Practical	0 3 2	CS405T	Artificial Intelligence	3 0 3


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* CS437	Cloud Computing	3 0 3	CS405P	Artificial Intelligence Practical	0 3 2
MCAC452	Parallel and Distributed Database Systems	3 0 3	CS441	Big Data Analysis	3 0 3
MCAC451	Natural Language Processing and Machine Translation	3 0 3	CSA426T	Enterprise Application development using Java	3 0 3
CSA324T	PHP with MySql	3 0 3	CSA426P	Enterprise Application development using Java Practical	0 3 2
CSA324P	PHP with MySql Practical	0 3 2	CSA425T	Digital Image Processing	3 0 3
		Unit=24	CSA425P	Digital Image Processing Practical	0 3 2
					Unit=26

5th year

Semester – I, 2023-24			Semester – II, 2023-24		
Course Code	Course Title	L P U	Course Code	Course Title	L P U
CS223	Design and Analysis of Algorithm	3 0 3	MCIC503	Major Information Technology Project	0 0 22
SSP243	Soft Skills-III	3 0 3			Unit=22
	Elective 1 (Theory)	3 0 3			
	Elective 1 (Practical)	0 3 2			
	Elective 2 (Theory)	3 0 3			
	Elective 2 (Practical)	0 3 2			
	Elective 3 (Theory)	3 0 3			
	Elective 3 (Practical)	0 3 2			
	Elective 4	3 0 3			
		Unit=24			

List of Electives 1, 2 & 3			List of Elective 4		
Course Code	Course Title	L P U	Course Code	Course Title	L P U
CS423T	Network Programming	3 0 3	CS438	E-Commerce	3 0 3
CS423P	Network Programming Practical	0 3 2	MCIC303	Software Testing and Quality Management	3 0 3
CS417T	Structured Query Language and Database Applications	3 0 3	CS413	Real Time Systems	3 0 3
CS417P	Structured Query Language and Database Applications Practical	0 3 2	CS422	Design Patterns	3 0 3
MCIC405T	Advance Operating System	3 0 3	CS427	Software Testing Methods	3 0 3
MCIC405P	Advance Operating System Practical	0 3 2	CS430	Software Process and Project Management	3 0 3
MCIC409T	Advance Computer Networks	3 0 3	CS420	Parallel Programming	3 0 3
MCIC409P	Advanced Computer Networks Practical	0 3 2	EC432	Fiber Optics & Opto Electronics	3 0 3
MCIC407T	Advance Data Structures	3 0 3		Bio-Informatics	3 0 3
MCIC407P	Advance Data Structures Practical	0 3 2		Program Paradigms	3 0 3
CS430T	Multimedia Computing	3 0 3			
CS430P	Multimedia Computing Practical	0 3 2			
CS403T	Parallel Computing	3 0 3			
CS403P	Parallel Computing Practical	0 3 2			
CS443T	Unix and Shell Programming	3 0 3			
CS443P	Unix and Shell Programming Practical	0 3 2			
CSE424T	Advance Database Management System	3 0 3			
CSE424P	Advance Database Management System Practical	0 3 2			
	Linux and Unix System	3 0 3			


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	Administration				
	Linux and Unix System Administration Practical	0 3 2			
	Rich Internet Application	3 0 3			
	Rich Internet Application Practical	0 3 2			


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