



B. C. A. Science (First Year) (w.e.f. 2018)
Trimester – I

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment, Marks			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-1101	Fundamentals of Computer	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-1102	Programming in C	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-1103	Business Mathematics	Core	3	1		2		50		50	100
4	MIT-WPU-BCA-1104	Introduction to Logical Circuit & Digital Design	Core	3	1		2		50		50	100
5	MIT-WPU-BCA-1105	Lab on C	Core			3		2		50	50	100
6	WPC1	World famous Philosophers, Saints/Sages and great Kings	SEC	3			2		50		50	100
		Total :		15	04	03	10	02	250	50	300	600

Weekly Teaching Hours: 22
Total Credits Trimester I: 12

**Assessment Marks are valid only if Attendance criteria are met

* CCA: Class Continuous Assessment

* LCA: Laboratory Continuous Assessment

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B. C. A. Science (First Year) (w.e.f. 2018)
Trimester – II

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks **			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-1201	Advanced C	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-1202	Applied Mathematics	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-1203	Database Management System	Core	3	1		2		50		50	100
4	MIT-WPU-BCA-1204	Calculus & matrices	Core	3	1		2		50		50	100
5	MIT-WPU-BCA-1205	Lab on Advanced C & DBMS	Core	3		3		2		50	50	100
6		Professional Certification I	Elect.			3		2	50	50		100
		Total :		15	04	06	08	04	250	100	250	600

**Assessment Marks are valid only if Attendance criteria are met

Weekly Teaching Hours: 25
 Total Credits Trimester II: 12

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 * LCA : Laboratory Continuous Assessment

NOTE: Every student will also complete the Professional Certification approved by Department.

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B. C. A. Science (First Year) (w.e.f. 2018)
Trimester – III

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-1301	Data Structures using C	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-1302	Computer Organization & Microprocessor	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-1303	Relational Database Management System	Core	3	1		2		50		50	100
4	MIT-WPU-BCA-1304	Software Engineering	Core	3	1		2		50		50	100
5	MIT-WPU-BCA-1305	Lab on Data Structure & RDBMS	Core			3		2		50	50	100
6	WPC2	Study of languages, Peace in Communications and Human Dynamics	SEC	3			2		50		50	100
		Total :		15	04	03	10	02	250	50	300	600

Weekly Teaching Hours: 22
 Total Credits Trimester III: 12

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B. C. A. Science (Second Year) (w.e.f. 2018)
Trimester – IV

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-2101	Object Oriented Programming using C++	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-2102	System Programming & Operating System	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-2103	Computer Networks	Core	3	1		2		50		50	100
4		Elective I	Elective	3	1		2		50		50	100
5	MIT-WPU-BCA-2104	Lab on C++	Core			3		2		50	50	100
		Total :		12	04	03	08	02	200	50	250	500

Weekly Teaching Hours: 19
Total Credits Trimester IV: 10

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B. C. A. Science (Second Year) (w.e.f. 2018)
Trimester – V

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-2201	Object Oriented Software Engineering	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-2202	Dot Net Framework	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-2203	Numerical Method	Core	3	1		2		50		50	100
4		Elective II	Elective	3	1		2		50		50	100
5	MIT-WPU-BCA-2204	Lab on Dot NET	Core			3		2		50	50	100
6	WPC4	Philosophy of Science and Religion/Spirituality	SEC	3			2		50		50	100
		Total :		15	04	03	10	02	250	50	300	600

Weekly Teaching Hours: 22
Total Credits Trimester V: 12

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B. C. A. Science (Second Year) (w.e.f. 2018) **Trimester – VI**

Sr. No	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-2301	Design & Analysis of Algorithms	Core	3	1	--	2		50		50	100
2	MIT-WPU-BCA-2302	UNIX Programming	Core	3	1		2		50		50	100
3		Elective III (MOOC)	Elective				2					
4		Open Elective I	Elective	3	1		2		50		50	100
5	MIT-WPU-BCA-2303	Lab on Shell Script	Core	3	1	3		2		50	50	100
6		Professional Certification II	Elective			3		2	50	50		100
		Total :		12	04	06	08	04	200	100	200	500

Weekly Teaching Hours: 22

Total Credits Trimester VI: 12

NOTE: Every student will also complete the Professional Certification II approved by Department.

For Elective III every student has to earn two credits by completing MOOC from approved list.

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**Assessment Marks are valid only if Attendance criteria are met

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B. C. A. Science (Third Year) (w.e.f. 2018)
Trimester – VII

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-3101	Java Programming	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-3102	Web Programming using PHP	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-3103	Software Testing and Quality Assurance	Core	3	1		2		50		50	100
4		Elective IV	Elective	3	1			2	50	50		100
5		Elective V	Elective	3	1		2		50		50	100
6	MIT-WPU-BCA-3104	Lab on Java and PHP	Core			3		2		50	50	100
7	WPC5	Indian Culture and Heritage	SEC	3			2		50		50	100
		Total :		18	05	03	10	04	300	100	300	700

Weekly Teaching Hours: 26
Total Credits Trimester VII: 14

**Assessment Marks are valid only if Attendance criteria are met
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B. C. A. Science (Third Year) (w.e.f. 2018)
Trimester – VIII

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-3201	Advanced Java Programming	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-3202	Grid & Cloud Computing	Core	3	1		2		50		50	100
3	MIT-WPU-BCA-3203	Optimization Techniques	Core	3	1		2		50		50	100
4		Elective VI	Elective	3	1			2	50	50		100
5		Elective VII	Elective	3	1		2		50		50	100
6	MIT-WPU-BCA-3204	Lab on Adv. Java	Core			3		2		50	50	100
			Total :	15	05	03	08	04	250	100	250	600

Weekly Teaching Hours: 23
Total Credits Trimester VII: 12

**Assessment Marks are valid only if Attendance criteria are met

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B. C. A. Science (Third Year) (w.e.f. 2018)
Trimester – IX

Sr. No.	Course Code	Name of Course	Type	Weekly Workload, Hrs			Credits		Assessment Marks**			
				Theory	Tutorial	Lab	Th	Lab	CCA*	LCA*	End Term Test	Total
1	MIT-WPU-BCA-3301	Artificial Intelligence	Core	3	1		2		50		50	100
2	MIT-WPU-BCA-3302	Information Security	Core	3	1		2		50		50	100
3		Elective VIII	Elective	3	1			2	50	50		100
4		Elective IX(MOOC)	Elective				2					
5		Open Elective II	Elective	3	1		2		50		50	100
6	MIT-WPU-BCA-3303	Lab on Artificial Intelligence	Core			3		2		50	50	100
7		Professional Certification III	Elective			3		2	50	50		100
8	WPC 6	Humanities-Ethical, Moral and Social Sciences	SEC	3			2		50		50	100
Total :				15	04	06	10	06	300	150	250	700

**Assessment Marks are valid only if Attendance criteria are met

Weekly Teaching Hours: 25

Total Credits Trimester IX: 16

* CCA : Class Continuous Assessment

* LCA : Laboratory Continuous Assessment

NOTE: Every student will also complete the Professional Certification III approved by Department.

For Elective IX every student has to earn two credits by completing MOOC from approved list.

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Elective Courses:

Sr. No	Course code	Course Name
1	ELE-BCA-01	Theory of Computer Science
2	ELE-BCA-02	Problem Solving Techniques
3	ELE-BCA-03	Computer Organization
4	ELE-BCA-04	Software project Management
5	ELE-BCA-05	Network Security
6	ELE-BCA-06	E-Commerce
7	ELE-BCA-07	Cyber Law
8	ELE-BCA-08	Supply Chain Management and Logistics
9	ELE-BCA-09	Business Communication
10	ELE-BCA-10	Management Information System
11	ELE-BCA-11	Advanced Data Base Management System
12	ELE-BCA-12	Cloud Computing
13	ELE-BCA-13	Minor Project I
14	ELE-BCA-14	Minor Project II
15	ELE-BCA-15	Minor Project III

Professional Certification Course:

Sr. No	Course code	Course Name
1	PC-BCA-01	Object orientated programming concepts
2	PC-BCA-02	Structured Query Language
3	PC-BCA-03	JAVA Certification
4	PC-BCA-04	Oracle Certified Professional
5	PC-BCA-05	Networking Certification
6	PC-BCA-06	DBA Certification
7	PC-BCA-07	Dot Net Certification
8	PC-BCA-08	Software Testing Certification

****Professional Certification course will be conducted & certified by department***

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