

Mahakaushal University, Jabalpur (M.P.)



Scheme & Syllabus

For

B.Sc (Computer Science)

**with Research/honors Faculty of
Computer Science and Applications**

2022-23

Duration of Course: 4 Years

Examination Mode: Semester

Examination System: CBCS

**Mahakaushal University
Village-Aithakheda, Mukunwara Road, Post- Tilwara
Jabalpur(M.P.)482003**

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Credit Distribution

SEMESTERSYSTEM						CreditsRequired					
			Sem	MJ	MI	DSE	GEC/ OEC	AECC	SEC SB/VB	FW	Total Credit
Level5	Certificate	1 st Year Pass (SemI+SemII)	I	6	6		4	4			20
			II	6	6		4	4			20
Level6	Diploma	2 nd Year Pass (SemIII+SemIV)	III	6	6		4		4		20
			IV	6	6		4		4		20
Level7	Degree	3 rd Year Pass (SemV+SemVI)	V	6		4			4	6	20
			VI	6		8				6	20
Level8	Honors/ Research	4 th YearPass (SemVII+SemVIII)	VII	6	4	4				6	20
			VIII	6	4					10	20
	Total Credit			48	32	16	16	8	12	28	160

SEMESTER SYSTEM					Credits Required					
			MJ	MI	DSE	GEC/ OEC	AECC	SEC SB/VB	FW	Total Credit
Level 5	Certificate	1 st Year Pass	12	12		8	8			40
Level 6	Diploma	2 nd Year Pass	12	12		8		8		40
Level 7	Degree	3 rd Year Pass	12		12			4	12	40
Level 8	Honors/ Research	4 th Year Pass	12	8	4				16	40
Total Credit			48	32	16	16	8	12	28	160

For Regular Students Course Duration:

Min . Years for Completing UG Degree	3 Years
Min Years for Completing UG(Hons.) Degree	4 Years
Maximum Years for Completing UG Degree	6 Years
Max Years for Completing UG(Hons.) Degree	8 Years

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Faculty of Computer Application									
Major/Minor :B.sc(CS)									
Sem	Major	Minor	DSE	Open Elective/ Generic Elective	AECC	SEC		FW	Total Credits
						Skill Based	Value Based		
1	MJ-I(4+2)	MN-I(4+2)		OEC-I (4)	AECC-I(4)				20
2	MJ-II(4+2)	MN-II (4+2)		OEC-II(4)	AECC-II(4)				20
3	MJ-III(4+2)	MN-III (4+2)		OEC-III(4)		SECSB-I(4)			20
4	MJ-IV(4+2)	MN-IV (4+2)		OEC-IV (4)		SECSB-II(4)			20
5	MJ-V(4+2)		DSE-I(4)				SECVB (4)	FieldWork (6)	20
6	MJ-VI(4+2)		DSE-II(4) DSE-III (4)					Internship (6)	20
7	MJ-VII(4+2)	MN-V(4)	DSE-IV(4)					Minor Project(6)	20
8	MJ-VIII(4+2)	MN-VI (4)						Major Research Project(10)	20
Total Credits	48	32	16	16	8	8	4	28	160

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Major/Minor

Course Code	Category	Paper	Credits
BBCS0101-T	MJ	PROGRAMMING IN C	4
BBCS0101-P	MJ	PROGRAMMING IN C Lab	2
BBCS0102-T	MN	PC PACKAGES	4
BBCS0102-P	MN	PC PACKAGES Lab	2
BBCS0201-T	MJ	OBJECT ORIENTED PROGRAMMING WITH C++	4
BBCS0201-P	MJ	C++ Lab	2
BBCS0202-T	MN	DISCRETE MATHEMATICS	6
BBCS0301-T	MJ	Object Oriented Concepts using JAVA	4
BBCS0301-P	MJ	JAVA Lab	2
BBCS0302-T	MN	COMPUTER GRAPHICS	4
BBCS0302-P	MN	COMPUTER GRAPHICS LAB	2
BBCS0401-T	MJ	DIGITAL ELECTRONICS AND COMPUTER ORGANIZATION LAB	4
BBCS0401-P	MJ	DIGITAL ELECTRONICS LAB	2
BBCS0402-T	MN	MACHINE LEARNING TECHNIQUE	4
BBCS0402-P	MN	MACHINE LEARNING LAB	2
BBCS0501-T	MJ	PYTHON PROGRAMMING	4
BBCS0501-P	MJ	PYTHON PROGRAMMING Lab	2
BBCS0601-T	MJ	WEB PROGRAMMING AND PHP	4
BBCS0601-P	MJ	WEB PROGRAMMING AND PHP Lab	2
BBCS0701-T	MJ	ASSEMBLY LANGUAGE PROGRAMMING	4
BBCS0701-P	MJ	ASSEMBLY LANGUAGE PROGRAMMING Lab	2
BBCS0702-T	MN	SOFTWARE ENGINEERING	3
BDSC0702-P	MN	SOFTWARE ENGINEERING Lab	1
BBCS0801-T	MJ	FREEANDOPENSOURCESOFTWARES(FOSS)	4
BBCS0801-P	MJ	FREEANDOPENSOURCESOFTWARES(FOSS) lab	2
BBCS0802-T	MN	MOBILE APPLICATION DEVELOPMENT	4
BBCS0802-P	MN	MOBILE APPLICATION DEVELOPMENT Lab	2

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Department Specific Elective

BBCS0101D-T	DSE	Digital marketing analysis	4
BBCS0102D-T	DSE	Information Security	4
BBCS0103D-T	DSE	Distribution Computing	4
BBCS0104D-T	DSE	Mobile Computing	4
BBCS0105D-T	DSE	Statistics and Data Analytics	4
BBCS0106D-T	DSE	Soft Computing	4
BBCS0107D-T	DSE	Data Mining	4
BBCS0108D-T	DSE	Data Compression	4

Skill Enhancement Course (Skill Based) (Any Two)

Course Code	Category	Paper	Credits
BBCS0101SB-T	SEC-SB	Internet of Things	4
BBCS0102SB-T	SEC-SB	Ethical Hacking	4
BBCS0103SB-T	SEC-SB	Embedded system	4
BBCS0104SB-T	SEC-SB	Social Network Analytics	4
BBCS0105SB-T	SEC-SB	Fundamental of PHP	4

Open Elective Compulsory Course /Generic Elective Compulsory Course

Course Code	Category	Paper	Credits
OECC0101-T	OECC	Fundamental of Computer	4
OECC0102-T	OECC	Environmental Studies	4
OECC0103-T	OECC	Entrepreneurship	4
OECC0104-T	OECC	Principle of Management	4
OECC0105-T	OECC	Nutrition and Fitness	4
OECC0106-T	OECC	Current Concerns in Public Health Nutrition	4
OECC0107-T	OECC	Travel and Tourism	4
OECC0108-T	OECC	Tourism Operation Software Skills	4

Ability Enhancement Compulsory Course

CourseCode	Category	Paper	Credits
AECC0101-T	AECC	English Language-I	4
AECC0102-T	AECC	English Language-II	4

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Skill Enhancement Course(Value Based) (Any One)

Course Code	Category	Paper	Credits
SECVB0101-T	SEC-VB	Constitution of India	4
SECVB0102-T	SEC-VB	Yoga in Life	4
SECVB0103-T	SEC-VB	National Service Scheme (NSS)	4
SECVB0104-T	SEC-VB	Health & Wellness	4
SECVB0105-T	SEC-VB	Sports	4

Course Code	Category Paper	Credits
ENVT0101-T	Environmental Education	0

Field Work

Course Code	Category	Paper/Description	Credits
BFWF-0501-P	FW	Field work is the process of observing and collecting data about people, cultures, and natural environments.	6
BFWI-0601-P	FW	The aim of the internship provides a direction to the activities, helps to focus on a result, and to assess the result achieved.	6
BFWP-0701-P	FW	The objective of the minor project is to provide an opportunity for students to undertake short research training outside the classroom to solve real-world issues.	6
BFWR-0801-P	FW	Project objectives describe the desired outcome of a project, which is often a tangible object. It's beneficial to create objectives for your project because creating a specific goal for you helps everyone know what they're supposed to be working toward.	10

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