

Mahakaushal University, Jabalpur (M.P.)



Scheme & Syllabus

For

B.Sc (CYBER SECURITY)

with Research/honors Bachelor of
Computer 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						Credits Required					
			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

SEMESTERSYSTEM			CreditsRequired							
			MJ	MI	DSE	GEC/ OEC	AECC	SEC SB/VB	FW	Total Credit
Level5	Certificate	1 st YearPass	12	12		8	8			40
Level6	Diploma	2 nd YearPass	12	12		8		8		40
Level7	Degree	3 rd YearPass	12		12			4	12	40
Level8	Honors/ Research	4 th YearPass	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	3Years
Min Years for Completing UG(Hons.)Degree	4Years
Maximum Years for Completing UG Degree	6Years
Max Years for Completing UG(Hons.)Degree	8Years

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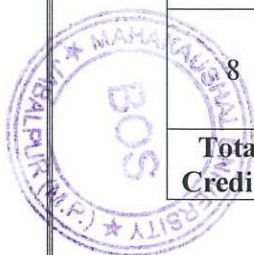
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Faculty of Computer Application									
Major/Minor: B.s.c CYBER SECURITY									
Sem	Major	Minor	DSE	Open Elective/ Generic Elective	AECC	SEC		FW	Total Credits
						Skill Based	Value Based		
1	MJ-I(4+2)	MN-I(4+2)		OEC-I (4)	AECC-I(4)				20
2	MJ-II(4+2)	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
BCYS0101T	MJ	PROGRAMMING IN C	4
BCYS0101P	MJ	PROGRAMMING IN C Lab	2
BCYS0102T	MN	DATA BASE MANAGEMENT SYSTEM	4
BCYS0102P	MN	DBMS Lab	2
BCYS0201T	MJ	OBJECT ORIENTED PROGRAMMING WITH C++	4
BCYS0201P	MJ	C++ Lab	2
BCYS0202T	MN	DISCRETE MATHEMATICS	6
BCYS0301T	MJ	Object Oriented Concepts using JAVA	4
BCYS0301P	MJ	JAVA Lab	2
BCYS0302T	MN	INTRODUCTION TO CYBER SECURITY	4
BCYS0302P	MN	CYBER SECURITY Lab	2
BCYS0401T	MJ	Cyber Defense Strategies	4
BCYS0401P	MJ	Cyber Defense Strategies Lab	2
BCYS0402T	MN	Cyber Laws and IPR	4
BCYS0402P	MN	Cyber Laws and IPR LAB	2
BCYS0501T	MJ	Python Programming	4
BCYS0501P	MJ	Python Programming Lab	2
BCYS0601T	MJ	Network Security	4
BCYS0601P	MJ	Network Security Lab	2
BCYS0701T	MJ	Secure Software Development	4
BCYS0701P	MJ	Secure Software Development Lab	2
BCYS0702T	MN	Digital Forensics	3
BCYS0702P	MN	Digital Forensics Lab	1
BCYS0801T	MJ	Web Technologies	4
BCYS0801P	MJ	Web Technologies Lab	2
BCYS0802T	MN	Data Collection and Cleaning	4
BCYS0802P	MN	Data Collection and Cleaning LAB	2

Department Specific Elective

BCYS0101D-T	DSE	Digital marketing analysis	4
BCYS0102D-T	DSE	Forms of Cyber Crime	4
BCYS0103D-T	DSE	Mobile and Web Application Security	4
BCYS0104D-T	DSE	Cryptography	4
BCYS0105-T	DSE	Advanced networking and communication protocols	4
BCYS0106D-T	DSE	Cyber forensic analytics	4
BCYS0107D-T	DSE	Fundamental of criminology and cyber criminology	4
BCYS0108D-T	DSE	Cyber risk management	4

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Skill Enhancement Course (Skill Based))(Any Two)

Course Code	Category	Paper	Credits
BCYS0101SB-T	SEC-SB	INTERNET OF THINGS	4
BCYS0102SB-T	SEC-SB	ETHICAL HACKING	4
BCYS0103SB-T	SEC-SB	CRIMINAL LAWS AND CYBERCRIMES	4
BCYS0104SB-T	SEC-SB	CYBER LAWS AND INTELLECTUAL PROPERTY RIGHTS	4
BCYS0105SB-T	SEC-SB	INFORMATION SECURITY AND AUDIT	4

Open Elective Compulsory Course / Generic Elective Compulsory Course

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

Ability Enhancement Compulsory Course

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

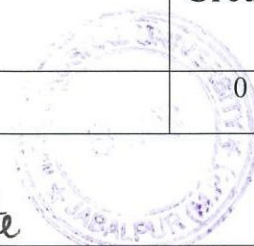
Skill Enhancement Course (Value Based)(Any One)

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	Credits
ENVT0101-T	Environmental Education	0

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FieldWork

Course Code	Category	Paper/Description	Credits
BFWF-501-P	FW	Field work is the process of observing and collecting data about people, cultures, and natural environments.	6
BFWI-601-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-701-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-801-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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