

B.C.A. with Cyber Security (464)

The Programme - BCA with Cyber Security aims to provide strong knowledge of computer fundamentals, programming basics, logical and numerical methods, networking and internet, database and applications packages.

Course Objectives

- To disseminate the advance knowledge in Information Technology.
- To develop core competencies in Computer Applications.
- To create efficient professionals in IT industries.

Eligibility : 12th passed with minimum 55% marks or its equivalent & Clearance in the Entrance examination (MHB-CET/TMV CET)

Duration : 3 years + 1 years (Hon.) (Eight Semesters)

Student Intake : 30

Fee Structure for the academic year 2025-26 :

B.C.A. with Cyber Security (464)

Academic Year	Eligibility	Admission	Examination	Tuition	Laboratory / Practical	Library	PCP	Total
First Year	1,000	2,000	3,000	43,000	20,500	500	-	70,000
Second Year	-	2,000	3,000	47,000	20,500	500	-	73,000
Third Year	-	2,000	3,000	50,000	20,500	500	-	76,000
Honours	-	2,000	3,000	52,000	20,500	500	-	78,000

Library Deposit 2000/-

Caution Deposit 5000/-

Late admission fee 1500/- after 16th Aug. 2025

- Opportunities at exit point** :
- 1) In IT as a Software Professional
 - 2) Software / Hardware / Technical Support in Multi-National Companies
 - 3) Can run own Business for Hardware/Technical support
 - 4) In Teaching Field
 - 5) As Web Designer / Developer
 - 6) Software Testing
 - 7) Higher Education - MCA / MSC / MBA / Other PG Qualification

Academic Prizes & Awards for Meritorious Students :

Extra ordinary merit must be recognized, respected & duly honored. This creates a healthy competition amongst the students. TMV has been fortunate enough in receiving excellent support from Trustee and other respected personalities, who have come forward and installed some awards and prizes. The prize for BCA students is as follows -

Award :

Every year an award is given in memory of Late Mrs. Gauri Deepak Tilak - to the student securing the highest marks in BCA Programme.

COURSE STRUCTURE

Semester - I

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-101	C Programming	Core	3	-	60	40	-	-	100
46425-102	Mathematics	Core	4	-	60	40	-	-	100
46425-103	Computer & Network Fundamentals	Interdisciplinary	3	-	60	40	-	-	100
46425-104	Operating System	DSC	3	-	60	40	-	-	100
46425-105 46425-106	English OR Japanese - I	AECC	2	-	30	20	-	-	50
VAC105 VAC109	Nitishataka Purvardha (Marathi) OR Gender Perspectives	Open Elective	2	-	-	50	-	-	50
46425-107	Logic Development	DSC	2	-	-	50	-	-	50
46425-108	C Programming (PR)	Core-LAB	-	1	-	-	30	20	50
Total			20						600

Programme Details



Semester - II

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-201	Object Oriented Programming using C++	Core	3	-	60	40	-	-	100
46425-202	Statistics	Core	4	-	60	40	-	-	100
46425-203	Structured System Analysis and Design	DSC	3	-	60	40	-	-	100
46425-204	Basics of Ethical Hacking	Core	3	-	60	40	-	-	100
46425-205	Communication Skills	AECC	2	-	30	20	-	-	50
46425-206 OR VAC207 OR VAC211	Yoga OR Nitishataka Uttarardha (Marathi) OR Moral Values	Open Elective	-	2	30	20	-	-	50
			2	-	-	50	-	-	
			2	-	-	50	-	-	
IKS24	Indian Knowledge System - Generic	IKS- Generic	2	-	-	50	-	-	50
46425-207	Object Oriented Programming using C++ (PR)	Core-Lab	-	1	-	-	30	20	50
Total			20						600

Programme Details



Semester - III

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-301	Advanced Web Designing	Core	3	-	60	40	-	-	100
46425-302	Database Management System (DBMS)	Core	3	-	60	40	-	-	100
46425-303	Environmental Studies	Value Added Course	4	-	-	100	-	-	100
46425-304	Application and Network Attacks	Core	3	-	60	40	-	-	100
46425-305 46425-306	Marathi OR Japanese - II	AECC	2	-	30	20	-	-	50
SEC301	Advanced Excel	Skill Enhancement Course	2	-	-	50	-	-	50
46425-307	Cyber Security Analysis and Countermeasures	DSC	2	-	-	50	-	-	50
46425-308	Advanced Web Designing (PR)	Core-Lab	-	1	-	-	30	20	50
Total			20						600

Programme Details



Semester - IV

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-401	Advanced Database Management System	Core	3	-	60	40	-	-	100
46425-402	Java Programming	Core	3	-	60	40	-	-	100
46425-403	Vulnerabilities Analysis & Penetration Testing	DSC	2	-	30	20	-	-	50
46425-404	Unified Modeling Language(UML)	DSC	3	-	60	40	-	-	100
46425-405 OR 46425-406	Soft Skills OR Content Writing & Technical Writing	Open Elective	1	1	-	50	-	-	50
			2	-	-				
46425-407	IT Act & DPDP Act	DSC	3	-	60	40	-	-	100
46425-408	Indian Knowledge System - Computer Science	IKS-DSC	2	-	-	50	-	-	50
46425-409	Java Programming (PR)	Core-LAB	-	1	-	-	30	20	50
46425-410	Advanced Database Management System (PR)	Core-Lab	-	1	-	-	30	20	50
Total			20						650

Programme Details



Semester - V

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-501	Python Programming	Core	3	-	60	40	-	-	100
46425-502	Data acquisition and forensics	Core	3	-	60	40	-	-	100
46425-503	C# Basics	DSC	2	-	-	50	-	-	50
46425-504	E-Commerce	Interdisciplinary	3	-	60	40	-	-	100
46425-505	Cyber Crime Investigation	Core	3	-	60	40	-	-	100
46425-506	Future Trends in Cyber Security	DSC	3	-	60	40	-	-	100
46425-507	Python Programming (PR)	Core-Lab	-	1	-	-	30	20	50
46425-508	Cyber Crime Investigation (PR)	Core-Lab	-	1	-	-	30	20	50
46425-509	Data acquisition and forensics (PR)	Core-Lab	-	1	-	-	30	20	50
		Total	20						700

Programme Details



Semester - VI

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-601	Mobile Audit & Forensics	Core	3	-	60	40	-	-	100
46425-602	Blockchain Technology	DSC	2	-	30	20	-	-	50
46425-603	Cloud Technology & Security	Core	3	-	60	40	-	-	100
46425-604	Project	Core	-	4	-	-	60	40	100
46425-605	MOOC - I	MOOC	2	-	-	50	-	-	50
46425-606	Internship	Internship	-	4	-	-	-	100	100
46425-607	Cloud Technology & Security (PR)	Core-Lab	-	1	-	-	30	20	50
46425-608	Mobile Audit & Forensics (PR)	Core-Lab	-	1	-	-	30	20	50
		Total	20						600

Semester - VII

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-701	Data Structure using python	Core	3	-	60	40	-	-	100
46425-702	Green Computing	DSC	3	-	60	40	-	-	100
46425-703	Discrete Mathematics	Core	3	-	60	40	-	-	100
46425-704	Advanced Linux & Server Security	DSC	3	-	60	40	-	-	100
46425-705	Infrastructure Audit and Security	DSC	3	-	60	40	-	-	100
46425-706	Research Methodology	DSC	4	-	60	40	-	-	100
46425-707	MOOC - II	MOOC	-	1	-	50	-	-	50
46425-708	Data Structure using python (PR)	Core-Lab	-	1	-	-	30	20	50
46425-709	Advanced Linux & Server Security (PR)	DSC-Lab	-	1	-	-	30	20	50
		Total	22						750

Programme Details



Semester - VIII

Course Code	Course Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Theory	Practical	External	Internal	External	Internal	
46425-801	Social Media Analytics & Security	Core	3	-	60	40	-	-	100
46425-802	Advanced Computer Network	DSC	3	-	60	40	-	-	100
46425-803	Django Web Framework	DSC	3	-	60	40	-	-	100
46425-804	Project (Red Team Audit)	Core	-	6	-	-	-	200	200
46425-805	Internship	Internship	-	4	-	-	-	100	100
46425-806	MOOC - III	MOOC	2	-	-	-	-	100	100
46425-807	Django Web Framework (PR)	DSC-LAB	-	1	-	-	30	20	50
		Total	22						750