



# B.Sc. Computer Applications



**Your Digital Journey Starts Here....**

## **B.Sc. Computer Applications**

**Empowering Progress through Technology**

Information is a vital factor for our existence. Information and knowledge of information technology is a necessary input for achieving our goals to learn, to help each other and to be a part of society. Information Technology offers tremendous opportunities to become more competitive and for the industry to supply a worldwide marketplace. Information Technology is breaking old barriers and building new connections in the emerging Global Village.

Keeping this fact in mind, Tilak Maharashtra Vidyapeeth has introduced the programme of B.Sc. Computer Applications. The syllabus of this programme has been designed in a logical sequence which covers the fundamentals of Information Technology.

The programme structure covers the history of computers, basics of Information Technologies, software concepts, database management. Communication, network concepts and applications of information technology. The contents of the programmes are surely bound to kindle the flame of knowledge about information technology in the heart and minds of students and lead them towards running themselves with the pace of the information technology revolution.

B.Sc. Computer Application is an under graduate degree program. B.Sc.CA is one of the popular degrees among students who want to make their career in the IT (Information Technology) field. The Programme – B.Sc.Computer Applications — aim to provide a strong knowledge of Computer Fundamentals, Programming Basics, Logical and Numerical Methods, Networking (Internet & Intranet), Database and Applications Packages, Cyber Security, Android and Cloud Technology.

## Course Object

- To disseminate the advance knowledge of information technology.
- To develop core competencies in Computer Applications.
- To create efficient professional in IT industries.

## Eligibility

- 12th passed with minimum 50 % marks from any stream (Arts/Commerce/ Science) or its equivalent (MCVC, NCTVT).

## Direct-SY.B.Sc.CA

- First Year passed in B.Sc CA, BCS, B.Sc. Computer, and B.Sc. (I.T) from any recognized University.
- A student who has passed 03 years' Govt. Recognized Diploma in computer, IT, E&TC after 10th STD. A student who has passed 02 years' Govt. recognized Diploma in computer, IT, & E&TC after 12th std.

## Direct-TY.B.Sc.CA

- First Year & Second Year passed in B.Sc.CA from TMV.

## Medium

- English

## **Duration for B.Sc.Computer Applications Degree Programme**

Once you are registered for the B.Sc.CA Degree Programme, you can complete the B.Sc.CA degree program in a period of minimum 3 - 4 years or maximum 7 years.

Semester system provides you, two attempts (May & December) every year for completion of Backlog of previous semester.

## **Fees Structure University + Program Learning Fees**

FY.B.Sc.CA 2025-26	
Online Registration Fees	200/-
Online Admission Processing Fees	500/-
University Fees	28000/-
Program Learning Fees	40000/-

## **How much fees need to pay at the time of admission.**

Student need to pay FY.B.Sc.CA University fees and Installment-I of Program Learning Fees. Student can pay FY.B.Sc.CA Installment-II of Program Learning fees in the Month of November 2025

# About NEP 2020 Policy

## Introduction :

Higher education plays an extremely important role in promoting human as well as societal well-being and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. Higher education significantly contributes towards sustainable livelihoods and economic development of the nation. As India moves towards becoming a knowledge economy and society, more and younger Indians are likely to aspire for higher education.

NEP 2020 focuses on five pillars: Affordability, Accessibility, Quality, Equity, and Accountability – to ensure continual learning. It has been crafted consistent with the needs of the citizens as a demand for knowledge in society and the economy called for a need to acquire new skills regularly. Thus, providing quality education and creating lifelong learning opportunities for all, leading to full and productive employment and decent work as enlisted in United Nations Sustainable Development Goals 2030, forms the thrust of NEP 2020. The global education development agenda reflected in Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030.

**Understanding the importance of NEP 2020, Vidyapeeth is going to implement the NEP 2020 Policy from this academic year 2023-24.**

- Undergraduate education can be of 3 or 4 years with multiple exit options and appropriate certification at different stages.
- Opportunity for learners to choose the courses of their interest in all disciplines.
- As per the NEP 2020, the students will now have options of multiple exits during their UG programme. For example, a student can exit just after 1<sup>st</sup> year of graduation with a certificate in hand. If he/she opts to exit after the second year, Diploma will be awarded for 2 years of successful completion of the study. As usual, the 3<sup>rd</sup> year of UG completion will result in a Bachelor's Degree and 4<sup>th</sup> year of UG completion will be awarded a Bachelor's degree with Honors.
- **NEP 2020- UG Exit Options**

Option No.	Options	Academic Recognition
01	After 1st year of the UG programme	Certificate
02	After 2nd year of the UG programme	Advanced Diploma
03	After 3rd year of the UG programme	Bachelor's Degree
04	After 4th year of the UG programme	Bachelor's degree with Honors

- Multidisciplinary and holistic education across the sciences, social sciences, arts, humanities, and sports for a multidisciplinary world to ensure the unity and integrity of all knowledge.



- An Academic Bank of Credit (ABC) shall be established, which would digitally store the academic credits earned from various recognized Higher Education Institutions so that the degrees from a Higher Education Institution can be awarded taking into account credits earned.
- In honestly and faithfully implementing the NEP 2020 Policy, the authorities of TMV have tentatively prepared an action plan that will be implemented in a phased manner to achieve the goals/objectives of the NEP 2020 Policy.
- The Vidyapeeth will continue to issue the necessary directions/ instructions to all the concerned for this purpose.
- For further details, all the concerned are requested to refer to the NEP 2020 Policy laid down by the Government of India.

### **Examination Department NEP Rules for Academic Year 2023-24**

- **Awarding of UG Certificate** : Students who opt to exit after completion of the first year and have secured 40 credits will be awarded a UG certificate if, in addition, they complete one skill course of 4 credits and 6 internship/job related/ based credits at an **additional cost** \*decided by the Vidyapeeth during the summer vacation of the first year. These students are allowed to re-enter the degree programme within three years and complete the degree programme within the stipulated maximum period of seven years.
- **Awarding UG Diploma** : Students who opt to exit after completion of the second year and have secured 80 credits will be awarded the UG diploma if, in addition, they complete one vocational course of 4 credits and 6 internship/job related/ based credits at an additional cost \*decided by the Vidyapeeth during the summer vacation of the second year. These students are allowed to re-enter within a period of three years and complete the degree programme within the maximum period of seven years.
- **Validity of PRN** : In any case after opting for multiple entry /exit the validity of PRN will not be more than 7 years. After 7 years a student shall take a readmission and start fresh.
- **The maximum duration to allow re-entry** : Re-entry for a program is allowed a maximum of up to 3 years once in the duration of 7 years of validity of a PRN. (PRN validity table attached)
- **Lateral entry** : A student joining from another university/institute to complete a particular program at TMV under multiple entry/exit of NEP would be required to undertake an introductory course which will be a pass-or-fail course with no credits. Please refer to the respective academic department for such requisites.

- **Credit validity from other HEI :** The procured credits in any semester by the student from another HEI would be valid and granted provided the student submits a certificate duly signed by the competent authorities of that HEI. The certificate should mention the grade on 10 point scale. The such original certificate should be submitted to the Academic Department not after (Latest by) the 15 days of the last day of the semester-end examination of that Academic Department. TMV would not be liable or responsible for any academic loss of a student if the other HEI could not issue the course completion certificate on time.
- **Charging fees after re-entry :** A student re-entering a particular program after a gap would be charged fees as per that particular Academic Year and not as per the batch year fee of the student to which he was admitted.
- **ABC Enrolment :** A student should enrol for ABC at the time of enrolment and submit his ABC ID to the Academic department. Admission will not be confirmed without submission of ABC ID.
- **Rules for altering NEP guidelines :** Such guidelines are subject to change and amendments without notice.

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## Benefits Of National Education Policy



Holistic development of students



Focus on skill-based education



Promotes flexibility and choice



Inclusiveness and equity



Technology-enabled learning

# Course Structure

**As per UGC norms Choice Based Credit System is implemented**

## **SEMESTER I**

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal	Total	
BSC24-101	C programming	Core	60	40	100	3
BSC24-102	Mathematics	Core	60	40	100	4
BSC24-103	Computer Fundamentals & Networking	Interdisciplinary	60	40	100	3
BSC24-104	Operating System	DSC	60	40	100	3
BSC24-105	English	AECC	30	20	50	2
BSC24-107	Logic Development	DSC	---	50	50	2
BSC24-108	C Programming (PR)	Core-Lab	30	20	50	1
VAC109	Gender Perspectives	Value Added Course	---	50	50	2
	Total		300	300	600	20

## **SEMESTER II**

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal	Total	
BSC24-201	Object Oriented Programming using c ++	Core	60	40	100	3
BSC24-202	Statistics	Core	60	40	100	4
BSC24-203	Structured System Analysis& Design	DSC	60	40	100	3
BSC24-204	Principles and Practice of Management -I	Multidisciplinary	60	40	100	3
BSC24-205	Communication Skills	AECC	30	20	50	2
BSC24-207	OOPS using c ++(PR)	Core-Lab	30	20	50	1
VAC211	Moral Values	Value Added Course	----	50	50	2
IKS24	Indian Knowledge System(IKS)	IKS	----	50	50	2
	Total		300	300	600	20



### SEMESTER III

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal	Total	
BSC24-301	Advanced Web Designing	Core	60	40	100	3
BSC24-302	Database Management System(DBMS)	Core	60	40	100	3
BSC24-303	Environmental Studies	Value Added course	60	40	100	4
BSC24-304	Principles and Practice of Management -II	Multidisciplinary	60	40	100	3
BSC24-305	Marathi	AECC	30	20	50	2
BSC24-307	Introduction to IOT	DSC	---	50		2
BSC24-308	Advanced Web Designing(PR)	Core-Lab	30	20	50	1
SEC301	Advance Excel	Skill Enhancement course	---	50		2
	Total		300	300	600	20

### SEMESTER IV

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal	Total	
BSC24-401	Advanced Database Management System	Core	60	40	100	3
BSC24-402	Java Programming	Core	60	40	100	3
BSC24-403	Software Testing & Quality Assurance	DSC	60	40	100	3
BSC24-404	UML	DSC	60	40	100	3
BSC24-405	Content Writing	Skill Enhancement Course	30	20	50	2
BSC24-406	Soft Skills	Skill Enhancement Course	----	50	50	2
BSC24-407	Java Programming(PR)	Core-Lab	30	20	50	1
BSC24-408	Advanced Database Management System(PR)	Core-Lab	30	20	50	1
VAC406	Understanding India	Value Added Course	---	50	50	2
	Total		330	320	650	20

## SEMESTER V

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal		
BSC24-501	Python Programming	Core	60	40		4
BSC24-502	Linux	Core	60	40		4
BSC24-503	C#	DSC	---	50		4
BSC24-504	E-Commerce	Interdisciplinary	60	40		4
BSC24-505	Data Mining	DSC	---	50	50	2
BSC24-506	Basics Business Application	Interdisciplinary	30	20	50	2
BSC24-507	Management Information System	Multidisciplinary	60	40	100	
BSC24-508	Python Programming(PR)	Core-Lab	30	20	50	
BSC24-509	Linux(PR)	Core Lab	30	20	50	
	Total		330	300	650	20

## SEMESTER VI

Course Code	Course Name	Category of Course	Marks			Credit
			External	Internal	Total	
BSC24-601	Android Programming	Core	60	40	100	3
BSC24-603	Virtulisation & Cloud Technology	DSC	60	40	100	3
BSC24-604	Project	Core	60	40	100	4
BSC24-605	Organizational Behaviour	Interdisciplinary	30	20	50	2
BSC24-606	Internship	Internship	----	100	100	4
BSC24-608	Android Programming(PR)	Core-Lab	30	20	50	1
BSC24-608	Virtulisation & Cloud Technology(PR)	Core-Lab	30	20	50	1
SEC401	Digital Marketing	Skill Enhancement Course	----	50	50	2
	Total		270	330	600	20





## Exam Pattern

- Credit Choice Based Internal (Online/Assignment) & External (Theory/Practical).
- 40% Passing for each Internal & External Exam
- ATKT pattern is there in B.Sc.CA.
- A student **can be promoted to SY.B.Sc.CA** even if they have **ATKT in all subjects** of FY.B.Sc.CA.
- To be eligible for admission to **TY.B.Sc.CA**, the student **must** have cleared all FY.B.Sc.CA subjects.



## Admission Process of B.Sc.CA

- Admission process of B.Sc.CA degree program is online.

## List of required documents for B.Sc.CA Admission

- Passport size photo
- SSC & HSC Mark sheet
- Leaving Certificate
- Aadhar Card
- University and Collage fee's transaction slip
- ABCID





## Admission Related FAQ's



- **Is Math's Subject Compulsory in HSC?**  
For B.Sc.CA admission process Math's subject in HSC is NotCompulsory.
- **Is there, any Entrance Exam for B.Sc.CA?**  
We have selection process as per student merit percentage for admission. There is no Entrance Exam for B.Sc.CA,
- **Is there any quota for SC/ST and PWD candidates?**  
Reserved Candidates will get 3% benefit of their University Tuition Fees (Student has to do all coordination with University).
- **Procedure for cancellation of admission?**  
Refund of fee for the cancellation of admission as per UGC norms will be considered after submission of a written application only, within 15 days from the date of admission. No request of refund of fees will be considered later.  
**(Rs. 1000/- will be deducted by University for admission cancellation process)**
- **From where, I can get Textbook of all B.Sc.CA Subject?**  
TextBooks for all Subjects will be provided by University for each semester to every enrolled student. Student do not have to purchase text books from outside.
- **Do you provide hostel facility and travelling concession (Railways/Bus)?**  
No.
- **Is Laptop compulsory for B.Sc.CA Degree Program?**  
Yes.
- **Can I do Dual Degree with B.Sc.CA?**  
Yes.
- **Do you have Master's Degree (MCA/MMS) in your Campus**  
Yes.
- **Form which University, I can do B.Sc.CA Program?**  
Tilak Maharashtra Vidyapeeth Pune.
- **Can I get a admission after a gap during B.Sc.CA**  
It is depend on the availability of Seats
- **Do you have any facility for physically challenged Students**  
No.



# Tilak Maharashtra Vidyapeeth Pune



## A rich legacy of 100 years in the field of education

INDIA'S STRUGGLE for freedom was a dynamic process in which a nation was punctuating, became conscious of new aspirations and realized its best self. Among the individuals who initiated and accelerated this process, the late Lokmanya Tilak was one of the foremost. He does not, however, belong to the past. His words and deeds are a part of the personality of India even.



## Education

Tilak established New English School in 1880 & Fergusson College in 1885 along with his friends. Education according to them was a very good platform for implementing their ideas of national education and to mould generation which will help build modern and strong India.

The origin of the Vidyapeeth dates back to pre-independence period - 1921 when immediately after the demise of Lokmanya Bal Gangadhar Tilak, his follower Mahatma Gandhi mooted the idea of establishing an university in his memory.

## UGC Recognition



### NAAC Reaccredited (Third Cycle) with 'B++' grade Legacy of 100 years in the field of education

Though late, i.e. after 66 years of establishment of Vidyapeeth, it was only in the year 1987 that the UGC (University Grants Commission) took cognizance of significant work of TMV in the fields of Sanskrit, Ayurveda, Social Sciences and Distance Education and thereby on its recommendations, the Government of India conferred the "Deemed to be a University" status upon Tilak Maharashtra Vidyapeeth. With this conferment of "Deemed to be a University" status, the Vidyapeeth gained recognition at the national level.

The Vidyapeeth at present offers post graduate education through MBA, MSW, MJ, B.Lib.I.Sc., M.Lib.I.Sc., M.A. or M.A.-(Social Sciences, Marathi, Hindi, English, Japanese, Sanskrit, Indology), M.A. in Classical Dance, M.SC



Nutrition & Ayurveda, M.A.M.C., Mass Communication and M.Com. along with ,B.Sc.Computer Applications, BCA, BBA, B.A. - Animation, VFX, Game Designing, BHMCT, BBA (Hotel Management), BPT, B.Sc. Nursing, B.Com, B.A. department under Mass Communication & Journalism. There are programme like B.A.J.M.C., B.A. - Sound, Film Making, Photography. B.A. or B.A. - Journalism and Mass Communication and Ph.D. in Management, Sanskrit, Indology, Ayurveda, Journalism and Mass Communication, Social Work, Social Science, Interdisciplinary.

As per the guidelines of UGC, the Choice Based Credit System has been adapted and Under graduate courses.

## Vision

To impart national education, through fine blend of traditional and modern knowledge as well as to democratize quality higher education by empowering the masses and reaching the unreached.

## MISSION

- ❖ To create analyzing creative and practical intelligence.
- ❖ To equip and update with skills and knowledge for employability and entrepreneurship.
- ❖ To instill social accountability, serving community and civil ethics

## Message from the Chancellor



Since inception. The Vidyapeeth has focused on imparting national education that would equip students to contribute productively towards the development of the nation. During the long period of 100 years the Vidyapeeth has constantly created to the changing needs of the society and nation without compromising on quality and its prime focus.

The last five years have witnessed an expansion in the infrastructure, technology, courses and research activities. Alternative up gradation of the resources, conduct of National and International Conferences, Se, Workshops. Research Publication are demonstration of our fortified resolve to perform better

Our works have attained international recognition and accolades in the fields of Sanskrit and Indology, Ayurveda, Mass Media, Journalism and Japanese. Research in Ayurveda has been applauded national level. Establishment of Japanese department in the collaboration with Japanese government

TMV prepares the students for upcoming challenges; and enables them to contribute towards national development which will ultimately lead to the fulfilment of Lokmanya's dream of building a strong and modern India.

welcome you to TMV family to create your autonomous. Creative, analyzing intelligence as well as learn some additional skills and development your career to face global challenges.

Dr. Deepak J. Tilak

Chancellor.

# Information Centre Details



## ➤ Location.

DESMumbai Campus, Kriti College Road, Off, SVSRd, Dadar(W), Mumbai 400028, Maharashtra(India).



## ➤ Lecture Time.

B.Sc.CA lectures are scheduled from Monday to Saturday in Afternoon Session.



## ➤ Division.

Only 60 students in one division

## ➤ Practicalis getting conducted.

In Computer Lab's each lab with 60 Desktops & one student/computer.

## ➤ Lecturemode

Offline



## ➤ Library

Learning Management System is provided to students with individual student login

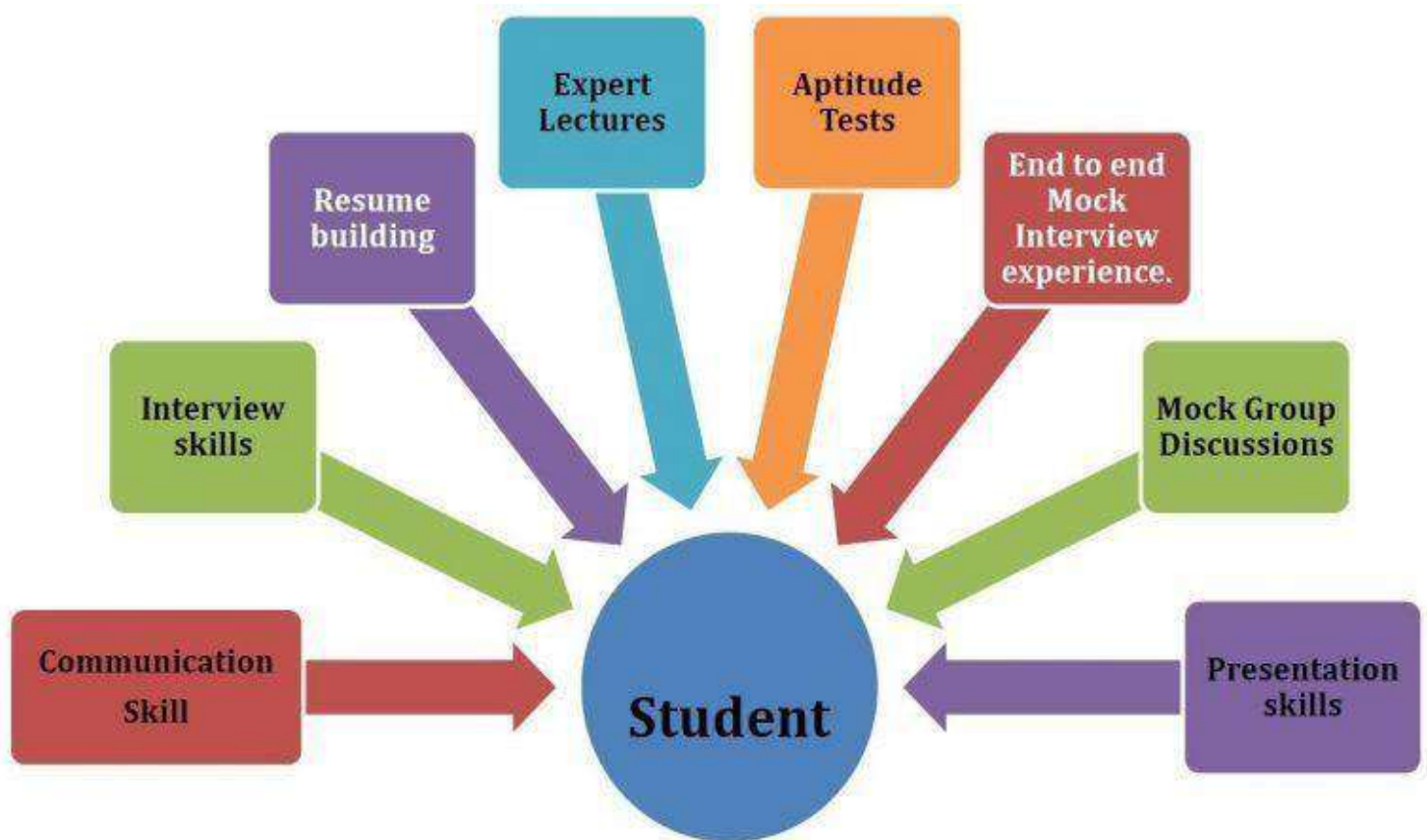
## ➤ Extra Curricular Activity

Internal Group Software Projects.

Guidance about Masters MCA/MMS/PGDFM.



# Placement Assistance



## PrePlacement Talk

PrePlacement Talk by our industry experts is a complete solution to a placement preparation and profile building for our students preparing for campus and off-campus placement opportunities. Click here for more info:-

<https://www.bcaeducation.com/student/our-placed-students>



