DEVI AHILYA VISHWAVIDYALAYA, INDORE
INSTITUTE OF ENGINEERING & TECHNOLOGY
Faculty of Engineering · Khandwa Road, Indore – 452017 (M.P.) INDIA
www.ietdavv.edu.in

NAAC A+

ADMISSIONS 2026 – 2027

M.Sc.

Applied Mathematics

with Specialization in

Computing & Informatics

2 Years	4 Semesters	30 Seats	CBCS
Duration	Structure	Intake	Scheme

■ ELIGIBILITY

B.Sc. / B.C.A. / B.A. / B.E. / B.Tech. with Mathematics · Minimum 50% aggregate

(5% relaxation for SC/ST candidates)

CORE AREAS

Algebra · Real Analysis · Discrete Mathematics · Numerical Analysis
Graph Theory · Operations Research · Algorithms · Cryptography · Probability

■	■15K	100%	TCS/Infosys
Dr. Shankar Dayal Sharma Gold Medal	Dr. Chandwani Scholarship (Topper)	Fee Waiver for Reserved Category	Campus Placements

PROGRAMME HIGHLIGHTS

- M.Sc. (Applied Mathematics) — 2 Years, 4 Semesters
- CBCS Scheme — Choice Based Credit System
- Core subjects: Algebra, Analysis, Graph Theory, OR
- Lab courses: MATLAB, Java, Web Technology
- Elective tracks: Cryptography, Modelling, VLSI, Unix
- Optional Dissertation / Seminar in Semester IV
- Placements: TCS, Infosys, PCS, Tech Mahindra
- Alumni at IITs, DAVV, and colleges across M.P.

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📌 Rationale

The last decade has witnessed unprecedented growth in information science, communication, and computing. Several core and abstract areas are continually challenged by newer problems that demand solutions grounded in rigorous mathematical reasoning. There is a growing need for synergy across disciplines so that critical problems receive innovative solutions.

Keeping the current and future needs of industry and academia in view, IET DAVV initiated the **M.Sc. (Applied Mathematics) with Specialization in Computing & Informatics** in **2006.** The course structure ensures that graduates are not only masters of mathematical modelling and simulation concepts, but are also capable of interplaying Mathematics with Applications in computing and informatics. Graduates may pursue employment, M.Phil., or Ph.D. after completion.

🎯 Programme Objectives

- Develop basic skills for solving problems in an efficient and effective way.
- Explore computer science to promote research & development.
- Develop manpower for problem solving at a mathematical level and support information technologists.
- Strengthen the foundation for careers in fast-growing software and web development industries.
- Provide placement opportunities for BSc / BCA / BE enthusiasts in IT / software sectors.
- Transform graduate enthusiasts into specialists.

📋 Programme at a Glance

DEGREE **M.Sc. (Applied Mathematics)**	SPECIALISATION **Computing & Informatics**
DURATION **2 Years (4 Semesters)**	SCHEME **CBCS (Choice Based Credit System)**
TOTAL SEATS **30 Seats**	RESERVATION **50% for MP Domiciles + SC/ST/OBC/Female norms**
MODE **Full-time, On-campus**	AFFILIATION **DAVV, Indore (NAAC A+)**

✅ Eligibility Criteria

B.Sc. / B.C.A. / B.A. / B.E. / B.Tech. (with Mathematics as one subject) passed with minimum **50%** marks in aggregate. The candidate should have passed Class XII with Mathematics. *A relaxation of 5% marks in Mathematics is applicable for SC/ST candidates.*

📚 Curriculum Overview

A proportionate mix of theoretical and applied aspects of Mathematics with Computer Science and Information Technology is taught under the CBCS Scheme. Theoretical study, supplemented with laboratory work, enhances problem-solving skills. Dissertation work (Optional) in the final semester provides a platform for independent research.

— SEMESTER I (20 ACTUAL + 4 VIRTUAL CREDITS) —

CODE	SUBJECT NAME	CREDITS (L-T-P)	TYPE
AM1PC1	Algebra	3-1-0	Core
AM1PC2	Discrete Mathematics	3-1-0	Core
AM1PC3	Numerical Analysis / Integral Equations	3-1-0	Core
AM1SS1	Advanced Communication Skills	2-0-0	Skill
AM1GEx	Generic Elective I (Computer Architecture / Advanced Special Functions / Financial Accounts)	3-1-0	Generic
AM1PR1	Computer Lab-I (MATLAB)	0-0-2	Practical
AM1CV1	Comprehensive Viva I	0-0-4	Viva

— SEMESTER II (20 ACTUAL + 4 VIRTUAL CREDITS) —

CODE	SUBJECT NAME	CREDITS (L-T-P)	TYPE
AM2PC1	Real Analysis / Measure Theory	3-1-0	Core
AM2PC2	Advanced Differential Equations	3-1-0	Core
AM2PC3	Theory of Computation	3-1-0	Core
AM2ECx	Discipline Elective I	3-0-0	Disc. Elec.
AM2EMx	Discipline Elective II	3-0-0	Disc. Elec.
AM2PR2	Computer Lab-II (of Discipline Elective-I)	0-0-2	Practical
AM2CV2	Comprehensive Viva II	0-0-4	Viva

— SEMESTER III (20 ACTUAL + 4 VIRTUAL CREDITS) —

CODE	SUBJECT NAME	CREDITS (L-T-P)	TYPE
AM3PC1	Graph Theory & Combinatorics	3-1-0	Core
AM3PC2	Operations Research-I	3-1-0	Core
AM3PC3	Probability & Statistics	3-1-0	Core
AM3ECx	Discipline Elective III	3-0-0	Disc. Elec.
AM3GEx	Generic Elective II (OS/Microprocessor / Integral Transforms / Financial Management)	3-1-0	Generic
AM3PR3	Computer Lab-III	0-0-2	Practical
AM3CV3	Comprehensive Viva III	0-0-4	Viva

— SEMESTER IV (20 ACTUAL + 4 VIRTUAL CREDITS) —

CODE	SUBJECT NAME	CREDITS (L-T-P)	TYPE
AM4PC1	Complex Analysis	3-1-0	Core
AM4PC2	Analysis of Algorithms	3-1-0	Core
AM4PC3	Functional Analysis	3-1-0	Core
AM4ECx	Discipline Elective III* (Advanced Java / Unix-Linux Admin / Internet & Web Technology)	3-0-0	Disc. Elec.
AM4EMx	Discipline Elective IV* (Operations Research-II / Mathematical Modelling / Cryptography)	3-0-0	Disc. Elec.
AM4Dxx	Discipline Elective V* — Dissertation (Minor) OR Seminar	0-2-4	Diss./Sem.
AM4PR4	Computer Lab-IV (of Discipline Elective-III)	0-0-2	Practical
AM4CV4	Comprehensive Viva IV	0-0-4	Viva

** Students select either Discipline Elective III & IV, or Discipline Elective V (Dissertation / Seminar). Internal evaluation for Dissertation is based on monthly progress seminars and attendance.*

🏅 Awards, Scholarships & Achievements

₹15,000
Dr. Manohar Chandwani Scholarship (Topper)

🥇
Dr. Shankar Dayal Sharma Gold Medal at Convocation

100%
Academic Fees Waived for Reserved Category Students

- Batch 2020–22 had 4 selections in TCS and Infosys; Batch 2021–23 had 1 selection in TCS.
- Several alumni have cleared GATE, GRE, and Bank PO / Clerical examinations.
- Alumni are teaching as regular or visiting faculty in renowned colleges across M.P.
- Several students are pursuing or have completed higher degrees (M.Tech., Ph.D.) from DAVV and IIT Indore.
- 3 students cleared the written exam of the Azim Premji Foundation of Education.
- A student developed salary-slip software implemented at the Institute as an MSc project.
- A student completed her MSc project at CAT; others worked under senior DAVV professors and researchers.

🗓️ Admission Process

Applicants seeking direct admission in the second round must apply **offline** and pay the application form fee. Forms are available at www.ietdavv.edu.in. Filled forms are to be submitted in the **M Block** of the Institute to **Mr. Govind Aske**. Graduates whose final-year / semester result is awaited may also apply on the basis of their previous-year / semester result.

- Check eligibility: BSc/BCA/BA/BE/BTech with Mathematics, 50% aggregate (45% SC/ST).
- Obtain and fill the application form from the Institute / website.
- Attach certified copies of all marksheets, category certificate, and passport photograph.
- Submit completed form to M Block with the prescribed fee before the last date.
- Appear for the DAVV entrance test as notified.
- Attend counselling/merit-list round and complete fee payment to confirm admission.

🏛 About IET DAVV

The Institute of Engineering & Technology (IET), a University Teaching Department (UTD) set up in **1996** by DAVV under the Faculty of Engineering, offers B.E. programmes in six engineering branches, M.E. in six specialisations, and Ph.D. programmes in Engineering and Applied Sciences. Located on Khandwa Road adjacent to Ring Road, IET has grown into one of the best centres for technical education in Central India. Giant companies such as TCS, Infosys, PCS, CSC, and Tech Mahindra have been recruiting in mass from IET — MSc Applied Mathematics students are direct beneficiaries.

Devi Ahilya Vishwavidyalaya (DAVV) was established in **1964** at Indore — the pride city of Malwa. A state university supported by the Government of M.P. and the UGC, it is a Model University declared by the Government of Madhya Pradesh and is listed in the Commonwealth Year Book. With 30+ teaching departments, 250+ affiliated colleges, and collaborations with IITs, foreign universities, and research organisations, DAVV holds **NAAC A+ accreditation**.

Apply for Admission 2026–2027

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