



D Y PATIL
DEEMED TO BE
UNIVERSITY
— **ONLINE** —
NAVI MUMBAI



UGC
Entitled



NAAC 'A++'
Grade Accredited



Online MCA

Master of Computer Applications

CONNECTING EDUCATION AND BRILLIANCE



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About Us

D Y Patil (Deemed-to-be-University), School of Online, is designed to meet the needs of today's learners while equipping them with industry-relevant knowledge and skills. Our online programs blend the strengths of traditional teaching with modern, technology-driven methodologies to create a flexible and effective learning experience.

The programs are carefully curated to build strong managerial and leadership skills, bridging the gap between academic learning and industry expectations. The curriculum focuses on real-world applications, including business case studies and examples.

Students gain not only the theoretical foundation but also the practical exposure needed to explore diverse career opportunities and stand out in competitive placement scenarios.

Recognized by the UGC and accredited by NAAC and AICTE, our programs reflect a high academic standard, trusted pedagogy, and industry-recognized credentials—ensuring your degree carries weight with employers worldwide.



Program Overview



Duration

2 Y



Mode of Instruction

Online

The Online Master of Computer Applications (MCA) is a 2-year postgraduate program built for graduates ready to advance or pivot their tech careers. Covering key areas like software development, data analytics, cloud computing, and emerging technologies, this UGC-recognized degree blends academic rigor with real-world relevance. Whether you're looking to upskill, switch to tech, or grow into leadership roles, the Online MCA gives you the flexibility and future-focused training to get there.

Flexible Learning

Live Masterclass

Cutting-edge Curriculum

Adherence to 4 Quadrants of UGC

Why Choose Us?



Expert Faculty

Learn from our distinguished faculty members and industry experts



Your Learning, Your Time, Your Place!

Best-in-Class Learner Mobile App- Learning at your fingertips



Engaging Virtual Classroom Experience

Immerse yourself in an interactive virtual classroom environment



New-age Course Offerings

Explore industry relevant and contemporary courses across specializations



Comprehensive Support Services

Receive continuous support throughout your journey, assistance with academic & non-academic queries



Convenient Online Exams

Schedule exams at your convenience, pick your preferred time even over the weekends!

Corporate Leaders as Guest Faculty



Hetal Sonpal

TedX Speaker,
24+ years experience



Praveen Malla

Board of Directors, IIT Bombay Alumni
Association, 20+ years experience



Sushant Mathur

Director, Product Management for
Sabre India, 20+ years of experience



Vikash Singh

Senior Data Scientist, AP Moller Maersk
24+ years experience



Joydeep Sen

Group Product Manager, YouTube,
15+ years of experience



Nipun Mudaliar

Senior Legal Counsel at Global Investment
Bank, 15+ years of experience



Dr. Farooq Sheikh

Faculty, NM College of Commerce,
10+ years experience

**10+ More
Guest Faculties**

Industry Leader Masterclasses

Gain practical tips and actionable insights directly from top industry leaders and experts.



Mohua Das Gupta

Chief Revenue Officer, Peepul Group



XLRI JAMSHEDPUR



Prashanth Balasubramanian

Head of Strategy & Operations, Facebook



IIM BANGALORE



Rakesh Godhwani

Ex Adjunct Professor, IIM Bangalore



IIM BANGALORE



Dr Sharan Kumar Shetty

HOD Management Studies, AJIIT Mangalore



VTU BELGAUM

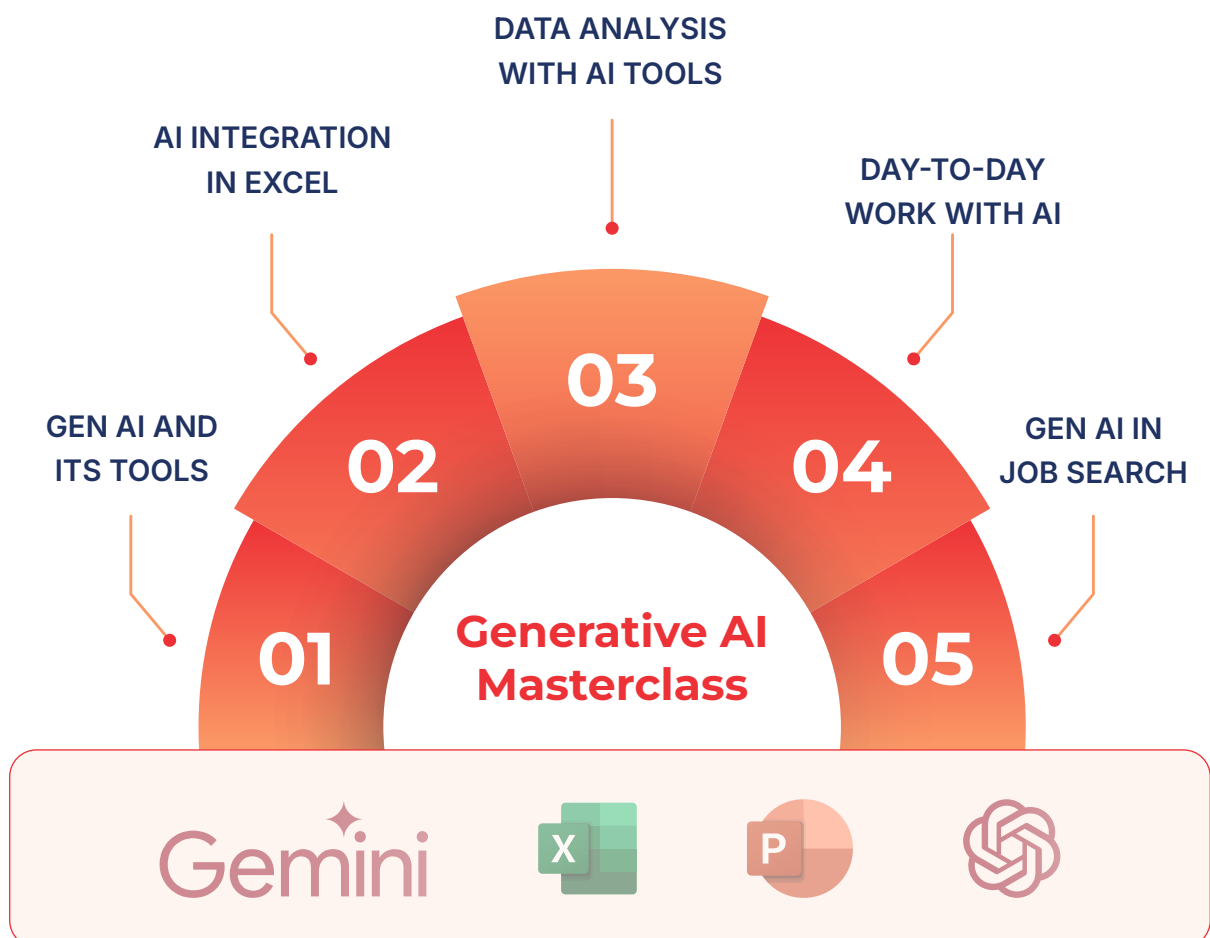
Many more industry experts

Gen AI Foundational Course

A series of 5 live sessions on how to leverage Gen AI in the professional journey. From automating daily tasks and enhancing data analysis to simplifying Excel functions and optimizing job search strategies, each session offers hands-on guidance and real-world applications. Ideal for professionals looking to boost productivity, creativity, and efficiency using cutting-edge AI tools.

Separate Offering

Lay the groundwork for your tech-enabled career with this short course designed for practical fluency. On completion earn an industry-recognized certificate from Microsoft



Career-Oriented Upskilling

Pick from in-demand skills that set you apart in today's job market.

Access To Analytical Tool Learning Videos

Get trained in analytical and data visualization tools to master data analysis, design & storytelling so you are equipped with valuable skills to stand out in the tech industry.



Data Analysis and Visualisation:



MS Excel



Tableau



Power BI

Soft Skills Development

Access 34+ hours of expertly curated video content developed by industry professionals, covering essential soft skills such as Interview Skills, Communication Skills, and Problem-Solving. Available to the learner right from the first semester.



Comprehensive Career Assistance

We provide career assistance to help learners confidently step into the job market. From ATS scoring to intuitive tools that help you build a standout LinkedIn profile, every element is designed to make you hire-ready. Learners can also access job readiness assessments to evaluate and enhance their skills, ensuring they meet industry standards and expectations.



Turn Theory into Application

1. Portfolio-Building Projects

Work on progressive, real-world projects.

- Apply theory to practice through industry-relevant project topics.
- Build a strong portfolio in areas like web development, e-commerce, cloud, data analytics, and AI/ML.
- Graduate with experience that showcases your capabilities to employers.

2. Competitive Programming

Sharpen your coding and problem-solving skills.

- Learn from industry experts in competitive coding.
- Improve logical thinking and algorithmic efficiency.
- Build a strong foundation for diverse coding challenges.

3. Hackathons

Collaborate, innovate, and solve real problems.

- Work in teams on live industry challenges.
- Turn challenges into impactful outcomes.
- Gain exposure to real-world problem-solving and teamwork dynamics.

Program Structure

SEMESTER 1 (COMPUTING FOUNDATIONS)	CREDITS
▪ Python for AI and Data Science	4
▪ Data Structures and Algorithms	4
▪ Database Management Systems	4
▪ Computer Networks and Web Services	4
▪ Developer Tools, Version Control and AI Literacy	2
▪ Mathematical Foundations for Computing	4
Total	22

SEMESTER 2 (SOFTWARE ENGINEERING AND AI FOUNDATIONS)	CREDITS
▪ Analysis of Algorithms	4
▪ Artificial Intelligence and Machine Learning	4
▪ Project Management	4
▪ Natural Language Processing	4
▪ Enterprise Resource Planning	4
▪ Big Data Analytics	4
Total	24

Note: Student to select any one Elective Bucket in Sem 3 (the same continuous in Sem 4)

SEMESTER 3 (APPLIED AI AND MODERN COMPUTING)	CREDITS
▪ Applied Data Analytics with Python	4
▪ Cloud-Native DevOps and Infrastructure	4
▪ NLP and Generative AI Applications	4
▪ Applied Cloud Computing	4
▪ Applied Machine Learning Projects	4
Total	20

Program Structure

SEMESTER 4 (APPLIED AI AND MODERN COMPUTING)	CREDITS
▪ Production AI Systems and MLOps	4
▪ AI for Industry	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

SEMESTER 3 (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	CREDITS
▪ Advanced Machine Learning and Optimisation	4
▪ NLP and Generative AI Applications	4
▪ Deep Learning and Computer Vision	4
▪ Large Language Model Systems	4
▪ AI Application Development	4
Total	20

SEMESTER 4 (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	CREDITS
▪ MLOps and AI Production Pipelines	4
▪ AI for Industry Applications	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

Program Structure

SEMESTER 3 (CLOUD COMPUTING)	CREDITS
▪ Frontend Web Development HTML, CSS & JavaScript	4
▪ Designing User Interfaces and Experiences (UI/UX)	4
▪ DevOps Foundations: Version Control & CI/CD Tools	4
▪ Principles of Software Architecture	4
▪ Rapid Prototyping for Web Applications	4
Total	20

SEMESTER 4 (CLOUD COMPUTING)	CREDITS
▪ Google Cloud Platform and Multi-Cloud Strategy	4
▪ Cloud Security and DevSecOps	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

SEMESTER 3 (FULL STACK DEVELOPMENT)	CREDITS
▪ Modern Frontend Development (React and TypeScript)	4
▪ Designing User Interfaces and Experiences (UI/UX)	4
▪ Full Stack DevOps and Deployment	4
▪ Software Architecture and System Design	4
▪ AI-Integrated Web Applications	4
Total	20

Program Structure

SEMESTER 4 (FULL STACK DEVELOPMENT)	CREDITS
▪ Modern Web Services: REST APIs, React and Node.js	4
▪ Advanced DevOps: Automation and SRE	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

SEMESTER 3 (DATA ANALYTICS)	CREDITS
▪ Applied Data Analytics with Python	4
▪ Advanced SQL and Data Warehousing	4
▪ Data Visualisation and Business Storytelling	4
▪ AI-Powered Analytics and Predictive Modelling	4
▪ Big Data Processing and Real-Time Analytics	4
Total	20

SEMESTER 4 (DATA ANALYTICS)	CREDITS
▪ Statistical Modelling and Experimentation	4
▪ Data-Driven Decision Making	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

Program Structure

SEMESTER 3 (CYBER SECURITY)	CREDITS
▪ Foundations of Cybersecurity	4
▪ Network Security and Protocols	4
▪ Cryptography and Secure Communication	4
▪ Ethical Hacking, Penetration Testing and AI Security	4
▪ Cyber Law, Digital Forensics and Data Privacy	4
Total	20

SEMESTER 4 (CYBER SECURITY)	CREDITS
▪ Cloud Security and Risk Management	4
▪ Security Operations and Incident Response	4
▪ Software Testing and Quality Assurance	4
▪ Research Methods, Technical Writing and Communication	2
▪ Capstone Project	8
Total	22

TOTAL CREDITS	88
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* Common core courses will be offered to all students during Semesters 1 and 2.

* Students are required to choose any one elective bucket at the beginning of Semester 3 and continue with the same specialization in Semester 4.

Admission Process

STEP 01



Register

Fill the application form and pay registration fees.

STEP 02



Documentation & Payment

Submit mandatory documents & pay course fees via Debit/ Credit card /UPI/Net Banking.

No Cost EMI Available

STEP 03



Welcome Onboard

Get confirmation of admission & access course material via LMS

ELIGIBILITY CRITERIA

- Passed BCA / bachelor's degree in Comp. Science Engg. or equivalent or passed B.Sc/ B.Com / BA / BCom with mathematics at 10+2 level or at Graduation level;
- 40%+ in 10th from recognized board / SSC mandatory
- Either 40%+ in 12th from recognized board or overall 50%+ in 3 years of Polytechnic Diploma from recognized Board
- Overall 40%+ in bachelor's degree from recognized University (For 10 + 2 + Regular Graduation)

Note: Documents must be attested (true copies with self-declaration)



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