



Swami Rama Himalayan University

NAAC A+, UGC-Entitled, NIRF #101-150

MCA

Type

Pg Program

Mode

Online

Duration

2 Years

Total fees

₹ 69,000

Swami Rama Himalayan University

Swami Rama Himalayan University (SRHU), located in Dehradun, Uttarakhand, is a multidisciplinary institution dedicated to academic excellence, innovation and holistic development. The University offers programs across management, healthcare, science, technology, humanities and other professional disciplines. It combines quality teaching with research, practical learning and industry-oriented education to prepare students for evolving career opportunities. Supported by experienced faculty and modern learning resources, SRHU encourages ethical leadership, entrepreneurship and social responsibility. Through campus-based and online education, the University strives to make meaningful, career-focused learning accessible to students from diverse backgrounds.

MCA

Highlights

- ◆ A structured online learning format that helps learners pursue computer applications, programming, and IT systems with continuity and manageable academic progress.
- ◆ Subject areas such as Advanced Data Structures, Discrete Mathematics, Advanced Computer Architecture, and Data Communication and Computer Networks make the course relevant to learners comparing similar programmes.
- ◆ Designed to strengthen both conceptual understanding and communication in discipline-specific contexts.
- ◆ Focuses on practical interpretation, case-based thinking, and problem-solving linked to software requirements, data workflows, and user-facing digital systems.
- ◆ Supports academic progression and career exploration across Software Architect, Data Scientist, and Systems Analyst and related software support, application development, IT operations, and systems-related roles without making unsupported placement claims, with added focus on strategic perspective.

Learning outcomes

- ◆ Within MCA from SRHU Online, understand how Advanced Data Structures, Discrete Mathematics, Advanced Computer Architecture, and Data Communication and Computer Networks shape practice within computer applications, programming, and IT systems.
- ◆ Apply concepts to interpret software requirements, data workflows, and user-facing digital systems and respond to practical questions.
- ◆ Review technology choices that consider usability, performance, and maintainability using evidence, context, and logic, accuracy, security awareness, and user focus.
- ◆ Build programs, database designs, web pages, and technical documentation that support effective communication and problem-solving.
- ◆ Demonstrate readiness to pursue deeper learning or relevant roles connected to Software Architect, Data Scientist, and Systems Analyst and related software support, application development, IT operations, and systems-related roles, while strengthening strategic perspective.

Eligibility Criteria

The candidate must have Passed BCA/ B.Sc. (Computer Science)/ B.Sc. (IT) / B.E. (CSE)/ B.Tech. (CSE) / B.E. (IT) / B.Tech. (IT) or equivalent Degree ₹ OR ₹ Passed any graduation degree (B.E. / B.Tech. / B.Sc / B.Com. / B.A./ B.Voc./ etc.,) preferably with Mathematics at 10+2 level or at Graduation level Note: And has obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in qualifying examination.

The Candidate possessing a minimum of 02(two) years of work experience is required to hold a Bachelor's degree, or an equivalent qualification, in any discipline preferably with Mathematics at 10+2 level or at Graduation level from a recognized HEI/University.

Curriculum Overview

Semester I (5 subjects)

- ◆ OLMCA111 - Advanced Data Structures
- ◆ OLMCA112 - Discrete Mathematics
- ◆ OLMCA113 - Advanced Computer Architecture
- ◆ OLMCA114 - Data Communication and Computer Networks
- ◆ OLMCA115 - Software Engineering & Project Management



Curriculum Overview (continued)

Semester II (6 subjects)

- ◆ OLMCA121 - Advanced Data Base Management Systems
- ◆ OLMCA122 - Advanced Java Programming
- ◆ OLMCA123 - Advanced Operating Systems
- ◆ OLMCA124 - Theory of Automata
- ◆ OLMCE121/OLMCE122 - Discipline Specific Elective-I
- ◆ OLMCE123/OLMCE124 - Discipline Specific Elective-II

Semester III (6 subjects)

- ◆ OLMCA231 - Design and Analysis of Algorithms
- ◆ OLMCA232 - Compiler Design
- ◆ OLMCA233 - Advanced Python Programming
- ◆ OLMCA234 - Full Stack Development
- ◆ OLMCE231/OLMCE232 - Discipline Specific Elective-III
- ◆ OLMCE233/OLMCE234 - Discipline Specific Elective-IV

Semester IV (1 subject)

- ◆ OLMPW241 - Project Work / OLMRD241 - Research Work

Discipline Specific Elective I (2 subjects)

- ◆ OLMCE121 - Cryptocurrency and Blockchain Technologies
- ◆ OLMCE122 - Computer Based Optimization Techniques



Curriculum Overview (continued)

Discipline Specific Elective II (2 subjects)

- ◆ OLMCE123 - DevOps and Microservices
 - ◆ OLMCE124 - Social Network Analytics
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Discipline Specific Elective III (2 subjects)

- ◆ OLMCE231 - Cryptography
 - ◆ OLMCE232 - Artificial Intelligence
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Discipline Specific Elective IV (2 subjects)

- ◆ OLMCE233 - Data Visualization Techniques
- ◆ OLMCE234 - Digital Forensics

Fee Structure

Fee heads	Year 1	Year 2	Total
Registration/Application Fee	₹ 1,000	—	₹ 1,000
Program Fee	₹ 30,000	₹ 30,000	₹ 60,000
Exam Fee	₹ 4,000	₹ 4,000	₹ 8,000
Total	₹ 35,000	₹ 34,000	₹ 69,000

Career & Placement highlights



99.03%

of graduates placed