

Programme Overview

The B Sc (Honours) programmes offered at AGI are of three years duration. The curriculum of the programmes are designed and aimed at developing advanced theoretical and research skills in areas of contemporary science. These programmes provide a platform for an advanced professional or academic career.

At AGI B Sc (Hons) is offered in following streams:

- **Physics**
- **Chemistry**
- **Mathematics**

Why these programmes are preferred:

• This is a most desired route for students who want to continue to Master of Science (M Sc) or Doctor of Philosophy (Ph D) and a research or academic career

Through these programmes, students are provided with the opportunity to pursue an independent research project in an area of her/his interest under the supervision of a faculty in the Institute. This is likely to enhance student's employability across a broad range of careers

Employment Opportunities:

Students of these programmes are also suitable for employment opportunities such as:

Scientist, Teaching, Research, Product Testing and Development, Agricultural Research Services, Astronomy, Engineering Industry, laboratories, Pyrotechnics Manufacturers, Hospitals, Cryptography, Defence and protective services, Civil services, Banking, Business Analyst, Indian Economics, Mathematical Modelling, Computer Sciences, actuarial sciences and statistics, etc.

The Career Perspective:

The B.Sc Honours candidates are now sought for government as well as private sector too for various positions and the salary for these positions in the government organizations varies from INR 10,000 to 30,000 per month and in the private sector the package after B.Sc. (Hons) varies from INR 2,00,000 to 8,00,000 per annum.

The Science of today is Technology of Tomorrow.

-Edwards Teller

B Sc (Hons) Physics

Physics is the most fundamental of the sciences. New Concepts are introduced at degree level such as quantum mechanics and relativity etc. in order to understand nature at the deepest level. These theories have profound philosophical implications because they challenge our view of the everyday world and take us ahead towards technological revolution.

Physics degrees are highly prized in the flexible labour market of today and our graduates have excellent career opportunities in academic research, industrial research and development, teaching, computing, business etc.

B Sc (Hons) Chemistry

If you love chemistry and want to keep your future career options open, this programme offers a solid grounding in all aspects of chemistry, while allowing you to incorporate some non-chemical options to broaden your education.

Practical sessions will provide more challenge than the 'instructional' sessions encountered in the first two years and may involve you conducting mini-projects. Emphasis will be placed upon the applicability of the chemistry that you have studied to the modern world, including educational aspects.

B Sc (Hons) Mathematics

If you enjoyed studying Mathematics at school and would like to study the subject in more depth and that gives you a stronger reason why should consider this programme.

The programme provides an excellent foundation for a wide range of careers. Students who opt for this programme are well placed to embark on a PhD or to take a research post in industry after graduation.

Mathematics is the branch of structure, space, quantity and change. B.Sc. Math Honours course provides in-depth knowledge about trigonometry, geometry, calculus and numerous other theories in Mathematics or respective disciplines, for example, computer science or statistics additionally to study of the normal Bachelor of Science subjects such as Physics and Chemistry.



COURSE	DURATION	ELIGIBILITY	AFFILIATION/ APPROVAL	FEE (In RS) PER SEMESTER
Bachelor of Science (Honours) B.Sc.(H)	3 Years	10+2 with PCM & 50%	Uttarakhand Technical University & approved by AICTE	19,950

Scholarships for meritorious students:

75-79.99%	-	Rs. 2500/- per semester
80-84.99%	-	Rs. 5000/- per semester
85%-89.99%	-	Rs. 7500/- per semester
90% and above	-	Rs. 10000/- per semester
Additional Annual Scholarship for toppers		- Rs. 5000/- Year

Note: The above scholarships are on the basis of qualifying examinations, are granted annually. For subsequent semesters students need to perform and upscale their percentage to avail the same as it's on the basis of academic performance and need to maintain minimum 75% attendance.

Students availing any form of fee concession are not entitled for scholarships.

Assistance in procuring educational loans from banks

The AGI Advantage

Fulfil your potential in a supported environment

We take students from a wide variety of educational backgrounds and we work hard to give everyone the opportunity to shine. Features such as the peer-assisted study scheme where Year Two and upwards students assist first years with problems as well as small first-year tutorial groups and supportive environment.

Put Learning into Practice through our innovative outreach programme

We encourage all our students to get involved in our extensive outreach programme with schools in the area and beyond. This is a particularly valuable experience for those interested in a career in teaching, but for all students it is a brilliant opportunity to build transferable skills. Activities include joining a visit to a local school to help out with an interactive learning session.

Bring your learning to life through our Virtual Learning Environment

We will integrate e-learning into teaching alongside traditional teaching methods. Our Virtual Learning Environment (VLE) will support all aspects of your studies and will be available via smart phone as well as PC, ensuring the resources you need are always at your fingertips. You'll find lecture notes and supporting material, recorded lectures, pre-laboratory information, problems and practice questions, assessed work, marking/feedback and vacation revision discussions on the VLE.

Be part of a supportive community working together to do great science

Our open-door approach enables us to offer you a friendly and supportive learning environment.

Learn in a culture of research excellence

Our excellence in research in other allied fields will strongly influence our teaching and ensures that you are engaged in optional modules and in project work.

Prepare for your professional career

The courses are designed to provide skill sets necessary for the growing industrial and environmental careers related to science. The skills developed in all courses can be applied in many careers and you will have many options after graduating.



Our Other Courses

COMMERCE & BUSINESS MANAGEMENT

- MBA - Master of Business Administration
- BBA - Bachelor of Business Administration
- B.Com. (H) - Bachelor of Commerce (Honours)

COMPUTER SCIENCE & APPLICATIONS

- MCA - Master of Computer Applications
- MCA 2nd Year Direct - Master of Computer Applications (Lateral Entry)
- BCA - Bachelor of Computer Application

HOSPITALITY MANAGEMENT

- BHMCT - Bachelor of Hotel Management & Catering Technology
- BHM - Bachelor of Hotel Management
- DHMCT - Diploma in Hotel Management & Catering Technology
- DHM - Diploma in Hotel Management

EDUCATION

- B. Ed. - Bachelor of Education

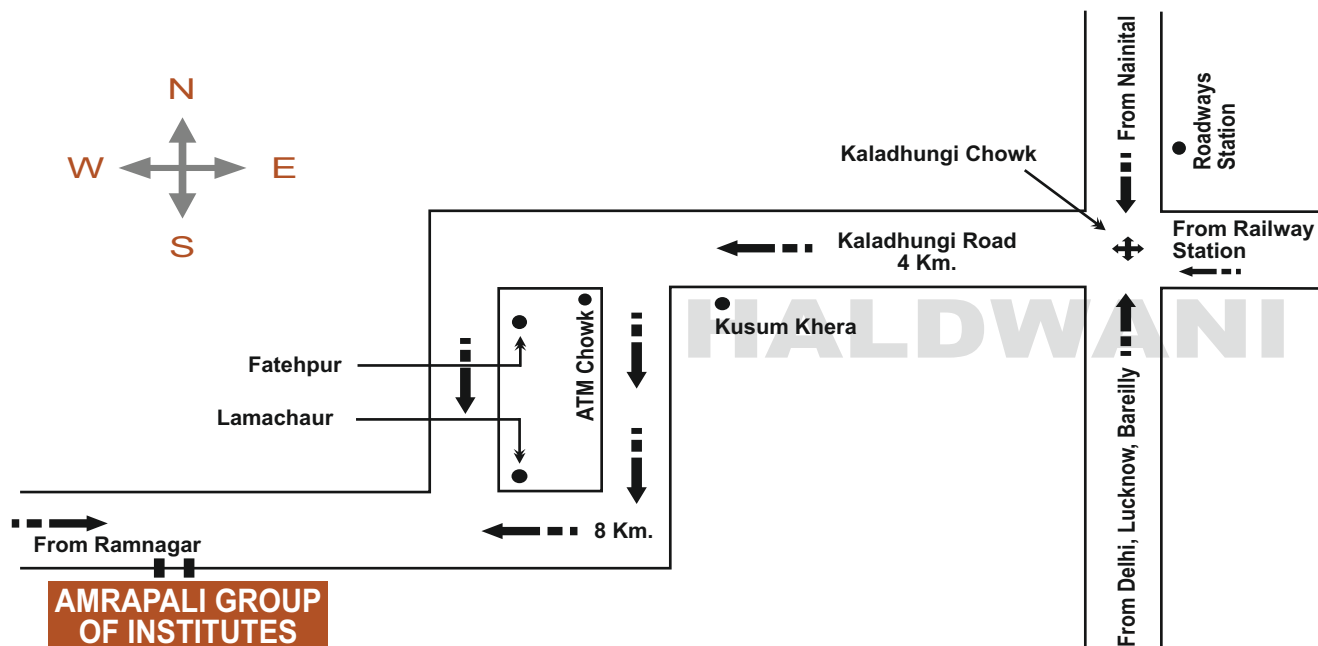
TECHNOLOGY & SCIENCES

B. Tech

- Electronics & Communication Engineering
- Electrical & Electronics Engineering
- Computer Science Engineering
- Mechanical Engineering

Diploma

- Mechanical Engineering
- Electrical Engineering



Faculty of Technology & Sciences B. Sc. (Hons)



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Application form can be downloaded from our website.