

Career Awareness Handbook

Read the information below in Assamese, Bengali, Gujarati, Hindi, Kannada, Malayalam, Marathi, Meiteilon (Manipuri), Nepali, Odia (Oriya), Punjabi (Gurmukhi), Sanskrit, Tamil, Telugu, or Urdu by selecting your preferred language using the translation tool in the top left corner of the screen.

<https://www.youtube.com/embed/uCoDsQg3dQw?si=AsUBtBEfO29mOnDY>

<https://www.youtube.com/embed/SxZ4a0y6r8A?si=unecDIPvWzAxfnWQ>

https://www.youtube.com/embed/Eqxq56l8TPQ?si=T0cEDVy_tzLA-2lg

Top Courses

Sciences	Commerce	Neutral Careers
Engineering	Chartered Accountant	Hotel Management
Medical Sciences	Finance and Banking	Legal Services
Architecture/Planning	Management	Media & Communication
Agri/Food Sciences	Sales and Marketing	Design
Allied & Para Medical		Humanities and Social Sciences
Science & Mathematics		Government/ Civil Services

Engineering Specializations

Computer Science — Artificial Intelligence / Data science / Machine Learning / Business Systems / Cloud computing / Block Chain / Internet of Things

Electronics — IoT / Cloud Computing / Networking / Cyber security / Gaming Technology / VLSI design / Optics and Opto Electronics / Mechatronics

Mechanical — Mechatronics / AI / Robotics / Additive Manufacturing / Electric Vehicle / Smart Manufacturing

Electrical — Power System / Energy / Environmental Management / Smart and Sustainable Energy

Civil — Civil & rural / Structural / Planning / Geological Techno / Geophysical Technology / Environmental

Aeronautical — Aero Space / Airline Management / Aircraft maintenance

Agriculture — Agriculture Technology / Smart Agritech / Dairy Technology

Bio — Technology / Genetic Engineering / Regenerative medicine / Pharma Technology / Bioinformatics / Bioelectronics

Medical & Sciences

Medicine —

- Specialist / Surgeon / ...ologist / Scientist
- Dentist
- Veterinarian

Allied & Para Medical —

- AYUSH – Ayurveda / Yoga / Unani / Siddha / Homeopathy
- Physiotherapy / Pharma
- Radiology / Laboratory / Anesthesia / Cardiac Perfusion / Dialysis / Operation Theatre / Optometry / Audio & Speech Language Pathology
- Nursing – Adult & Geriatric / Auxiliary / Cardiothoracic / Surgical / Neonatal / Oncology / Midwife / Orthopedic / Operation Theatre

Agri/Food Sciences — Food Scientist / Forestry / Horticulture / Soil Scientist

Architecture/Planning — Architect / Urban Planner / Design

Science & Mathematics — Astronomer / Bacteriologist / Botanist / Chemist / Entomologist / Ergonomist / Fisheries / Virologist / Wildlife / Cartographer

Commerce

Chartered Accountant — Tax / Financial / Management Accountant, Auditor, Budget Analyst

Finance and Banking — Accountant, Banker, Insurance Professional, Microfinance Professional, Investment Banker, Risk Manager, Cost & Management Accountant, Stockbroker etc.

Management — Business Executive, Human Resource / Supplychain / Operations / Production Manager, Logistics / Management Analyst, Entrepreneur, Waste Management etc.

Sales and Marketing — Sales / Brand / International Marketing Manager, Digital Marketing, Growth Hacker, Direct Marketing, Media Planner

Neutral

Hotel Management — Front Office / Accommodation / House Keeping / Food & Beverages / Hospitality and Tourism

Legal Services — Civil / Corporate / Cyber / Human rights / Intellectual Property Lawyer / Public Prosecutor / Judge / Medical / Maritime lawyer

Media & Communication — Journalist / Public Relations / Media / Advertising / Cinematographer / Blogger / Film Editor / Social Media

Design — Fashion / Jewellery / Interior / Textile / Visual Communication

Humanities and Social Sciences —

- International relations expert / Public Affairs and Policy Expert / Development / Social scientist / Social worker
- Psychology – Clinical / Organisational / Child / Social / Sports / Rehabilitation

Government / Civil Services —

- IAS / IFS / IRS / IPS / IES
 - Armed forces – Navy / Airforce / Army
 - Income Tax Officer
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Entrance Test 1

Joint Entrance Exam - JEE —

- Twice a year – Jan, Apr / CBT
- 31 NITs, JEE Adv, IITs, IIITS, CFITS

Karnataka Common Entrance Exam Test - KCET —

- Once a year – April / Paper and Pen-OMR
- All Govt Colleges / Govt seats in Pvt. Colleges

COMEDK - UGET —

- Once a year – April / CBT
- For Pvt. Colleges

National Eligibility cum Entrance Test - NEET UG —

- Once a year – May / Pen and Paper-OMR
- MBBS, BDS, AYUSH – BAMS, BNYS, BUMS, BSMA, BHMS

Common University Entrance Test - UG —

- Once a year – May / CBT

- Central Universities – All undergraduate courses

Entrance Test 2

Common Law Admission Test - CLAT —

- Once a year – Dec / Paper pen test
- 22 National Law Universities

Law School Admission Test - LSAT —

- Twice a year – Jan, Apr / CBT
- Private Universities

Undergraduate Common Entrance Exam for Design - UCEED —

- Once a year – Jan / CBT & Drawing
- IITs, Some seats in Pvt. Universities

Design Aptitude Test - NID-DAT —

- Once a year – Feb / CBT & Drawing
- 7 National Institutes of Design

Integrated Program for Management - IPMAT —

- Once a year – May / CBT + Interview
- IIM Indore / Rohtak / Ranchi / Jammu / Bodh Gaya

Careers Around You

1. IT & ITES - Information Technology

Careers

- Engineers – Computer Science, Software, IT
- Call Centre/Contact/Data Centres – Business Process Outsourcing (BPO), Knowledge Process Outsourcing (KPO), Electronic Data Interchange (EDI), Customer Support, Data Processing, Technical Support
- Web Developer, Computer Operator & Program Analyst, Software Testing, Data Entry Operator

Courses

- BTech/BE/Diploma – CS, ECE, EEE, Mechanical and related courses
- Graduation – Any graduation with basic Computer Skills
- Certification courses, ITI courses – Data entry, Web design, Digital marketing, Software testing, Office automation, Coding languages (C, C++, Python...), IT

Subjects & Skills

- Math
- Science
- Computer Science
- Coding Skill
- Logical and reasoning abilities

2. Electronics, Electricals & Hardware

Careers

- Engineers – Electrical, Electronics
- Technician – AC & Refrigeration, Sales & Service, Computer Hardware/Networking, CCTV Installation, Mobile Repairing, Broadband Technician, TV/DTH Repair, Solar Panel
- Electrician, Plumber, Fitter, Machinist, Welder

Courses

- BTech/BE – CS, Electronics, Electrical, Mechanical, Civil
- Diploma from Polytechnics, ITI – CS, Electronics, Electrical, Mechanical, Civil, Embedded Systems

- Certificate courses on – Hardware, Networking, Mobile Phone Technology, Machinist, Fitter, Welder, Electrician, Plumber, Wiring and Electronics

Subjects & Skills

- Basic Maths
- English/any language
- Technical subjects if any*

3. Automobiles & Transport

Careers

- Mechanical Engineer, Automotive Engineer, Maintenance, Aerospace, Railways
- Manufacturing Plants - Plant Manager, Supervisor, Quality control, Tool Room, Mixing, Shifting

Courses

- BTech/BE - Mechanical, Civil
- Diploma from Polytechnics, ITI - Mechanical, Civil, Embedded Systems, Motor Vehicle, Heavy Machines
- Certificate courses on - Machinist, Fitter, Welder, Metal Works & Tinkering, Diesel Mechanism

Subjects & Skills

- Basic Maths
- English/any language
- Technical subjects if any*

4. Construction

Careers

- Architect, Civil Engineer, Construction Engineer
- Carpenter, Draughtsperson, Scaffolder, Cartographer
- Painter, Foreman, Mason, Bar bender, Tile Laying

Courses

- BTech/BE - Civil Engineering, B Arch, B Planning
- Diploma in Civil Draughtsperson, Building Design, Land Survey, Revit Architecture, Architectural technology
- Certificate Courses - Painter, Foreman, Mason, Bar bender, Tile Laying, Land Survey Assistant, Autocad, Revit

Subjects & Skills

- Basic Maths
- Drawing (2D & 3D)

5. Medical, Allied & Paramedical Sciences

Careers

- Medical Sciences - Allopathy Doctors (General Physician, Orthopedician, Gynecologist, Oncologist, Dentist, ENT), Ayurveda, Yoga, Naturopathy, Unani, Siddha and Homeopathy
- Allied & Para Medical – Nurse, Physiotherapist, Nutrition and Dietician, Medical Lab Pathologist, Chiropractor
- Technician - Ophthalmic, Dental, Anesthesia, X ray, Ultrasound, Dialysis, Speech Therapist

Courses

- MBBS, AYUSH, B.Sc Nursing, GNM
- B.Sc Homesciences/ Nutrition
- BPT, BOT, BMLT
- B.Opt
- Dentist

Subjects & Skills

- Maths
- Science
- Languages
- Reasoning and Logical thinking

- Decision Making

6. BFSI - Banking, Finance, Securities and Insurance

Careers

- Insurance/Mutual Fund Agents
- Tally Professional
- Bank Clerk Accountant, Cashier
- Investment Advisor, Stock Broker
- Micro Finance Executive

Courses

- B.Com, BBA, BMS, BA/BSc Economics/Maths, Any graduation
- CA-Chartered Accountant, CMA-Certified Management Accountant, CFA-Chartered Financial Analyst, CS-Company Secretary
- Certification courses – Tally, Stock Broker, SAP, GST

Subjects & Skills

- Basic Maths
- Accounts
- Reasoning Skills

7. Business, Sales and Marketing

Careers

- Marketing/Sales/Brand Manager
- Digital/Direct Marketing Professional
- Sales Executive - Automobile, Retail etc
- Business Process Executive
- Media Planner

Courses

- BBA, BMS, BBS, BMMS, IPM, BA Economics, B.Com, BTech

- B.Vocation in Sales and Marketing, Retail Assistant
- NSQF Skill Courses - Sales and Retail Representative, Business Finance Investment and Tax Planning, Marketing & Management, Marketing Financial Products

Subjects & Skills

- Basic Maths
- English
- Leadership
- Communication

8. Hospitality, Tourism and Transport

Careers

- Commercial Pilot, Cabin Crew, Flight attendant, Air Traffic Controller, Airline Cargo Assistant, Airline Services Executive
- Hotel management - Housekeeping, Front Desk, Chef, Kitchen Staff, Catering
- Travel and Tourism Professional - Travel Agent, Tour Operator, Tour Manager

Courses

- BBA in Hotel Management, Certificate
- BA in Travel and Tourism, B.Voc in Travel and Tourism
- National Skill Qualification Framework (NSQF) certification courses
- Food Preservation, Catering, Housekeeping, Culinary, Food Production, Snack Production, Beverage Service

Subjects & Skills

- Basic Maths
- Languages
- Communication

9. Animation & Graphic Design

Careers

- Web/Graphic/Game/Multimedia Designer

- Animator
- UI/UX designer
- Multimedia Technologies

Courses

- B Design, B.Sc CS/BCA
- B.Voc - Multimedia and Graphics, Multimedia Animation and Spl. Effects
- Diploma in Design, Multimedia and Graphics, Web Design, Auto CAD, 3D Animation, 3D painting, Audio/Video Editing
- Certification - Multimedia Animation and Spl. Effects, Adobe Photoshop, Corel Draw

Subjects & Skills

- Basic Math
- Languages
- Communication
- Drawing basics
- Computer basics

10. Defence & Government Services

Careers

- Police, Firefighter, Security Guard
- Armed Forces - Army, Navy and Airforce - Agnipath
- Government Service: IAS, IPS, Income Tax Officer, Indian Foreign Services

Courses

- 10th, 12th Graduation - Open to all streams
- Graduation for UPSC (Union Public Service Commission) or SPSC (State Public Service Commission) exams

Subjects & Skills

- Basic Maths
- English

- General Knowledge
- Reasoning and Logical Ability

11. Media and Mass Communication/ Entertainment

Careers

- Advertising Professional/ Journalist - Print and Electronic
- Public Relations Manager/ Media Manager
- Blogger/ Vlogger/ YouTuber
- Cartoonist/ Illustrator
- Radio Jockey

Courses

- BA Journalism, Mass Communication, B.Voc
- BA in Media and Communication
- Diploma in Media and Communication

Subjects & Skills

- Languages
- Proficiency in Reading, Writing, Speaking
- General Knowledge
- Current Affairs

12. Education and Teaching

Careers

- Teacher: Primary, Middle, High and Senior Secondary, Lecturer, Professor
- Elementary teacher, Early Childhood Development Worker, Anganwadi workers, etc.
- Foreign Language Teacher, Counsellor, Translator, Sports Coach, Special Education etc.

Courses

- Bachelor of Education - BA/BSc B.Ed, BP.Ed.
- Diploma in Preschool Education/ Education - D.Ed, Anganwadi worker, Supervisor
- Montessori Teacher Training, Nursery Teacher Training etc.

Subjects & Skills

- Languages
- Basic Math,
- Being organised
- Active listening

13. Social Development Sector

Careers

- Social Development: Social Scientist, Social Worker, Public Affairs & Policy Expert, Sociologist, International Relations Specialist, Philosopher
- Early Childhood Development Worker, Anganwadi workers etc.
- Foreign Language Teacher, Counsellor, Translator, Spl. Education etc.

Courses

- Bachelor/Masters - BA Sociology, Social Dev., Philosophy, BSW
- Diploma in Preschool Education/ Education - D.Ed, Anganwadi worker, Supervisor
- Early Childhood Dev. Worker, Special Education, Community Health Worker

Subjects & Skills

- Languages
- Basic Math
- Biology
- Empathetic
- Being organised
- Active listening

14. Legal Services

Careers

- Lawyer - Corporate, IP, Criminal, Cyber, Maritime, Medical, Civil, Human Rights, Judge, Public Prosecutor
- Paralegal
- Legal Assistants

Courses

- Bachelor/Masters - BA /BSc/ BBA/ LLB, Graduation + LLB, LLB + LLM(Integrated)
- Diploma in Paralegal

Subjects & Skills

- Languages
- Basic Math
- Reasoning
- Investigative
- Effective Communication
- Persuasion

15. Fitness and Wellbeing

Careers

- Nutritionist
- Sports Manager, Sports Psychologist
- Beautician, Hair Stylist, Makeup Artist
- Pet Groomer
- Beauty and Wellness Advisor etc.

Courses

- BA in Food and Nutrition, BA in Nutrition and Dietetics, B.Sc Food Science and Technology
- BBA in Sports Management, Business Management
- BA in Psychology, BA in Behavioural Psychology etc.
- Certification courses that are offered by various institutes

Subjects & Skills

- Science
- Languages
- Analytic Skills

16. Textile & handloom/ Apparel & Accessories/ Art & Design

Careers

- Fashion/ Interior/ Jewellery/ Textile/ Footwear Designer
- Tailoring
- Sewing Machine Technician, Machine/Hand Embroidery etc

Courses

- B Design -Textile, Product, Apparel, Interior, Communication
- Diploma - Fashion Design
- Advanced Diploma in Fashion Design, Jewellery Design

Subjects & Skills

- Basic Maths
- Drawing
- Painting
- Art & Craft

17. New Age Careers

Medical Scientists

- Research the causes of disease. They also look for ways to prevent and cure them.
- BSc. Biology/ Chemistry/ Medical Science/ MBBS
- PhD is required

Data Scientist/Analyst

- Use mathematical and statistical methods to solve many challenges for businesses, governments, NGOs, scientists
- BSc. Statistics/Physics/Applied Mathematics/Economics/Computer Science or Eng in CS/Electronics or BBA/MBA
- PG is required to grow

Forensic Scientists

- Collect evidence from the crime scene

- BSc. Physics/Chemistry/Biology/Math

Cyber Security

- Secures/protects a country's armed forces', police forces', organizations' and individuals' computer systems and networks
- BCA/Btech/Digital Forensics/Information Science/Network Admin
- Security/Diploma in Ethical Hacking
- Certifications such as CIPTI, CCNA and CHFI

Digital Marketing

- BBA/BMS/B.com with a focus on Digital Marketing
- Certificate courses from Coursera, Udemy, etc.

UX/UI Designer

- A UI/UX designer creates the interface for the best user experience for a mobile application or a website
- Diploma/BCA/BTech/BSc in Computer Application/Information Technology/Web Design

Sports Management

- Specialize in business-related matters related to sports
- BBA/BBA in Sports Management
- PG is required to grow

Chartered Accountant

- Audit and certify financial accounts of companies
- CA Foundation→ CA intermediate→ ICITSS and ICAI Orientation course → CA Article ship (2 years)→ CA Final exam
- Bcom/BBA/BMS/BBM from a regular college and doing CA is advised as it takes a minimum of 5 to 6 years to complete CA and to increase employability

Actuary

- Evaluate, manage, and advise on financial risks

- Actuarial Common Entrance Test→ Core Principles (7 subjects), Core Practices (3 subjects), Specialist Principles (7 optional subjects out of which any 2 compulsory), Specialist Advanced (5 optional subjects out of which 1 compulsory)
- Graduate or postgraduate students in Maths/Stats/Eng./Mgmt. and related subjects or CAs have direct entry without entrance exams

Indian/State Civil Services

- Runs the Government's administration - both for the Central or Federal Government and the State or Provincial Governments. State level officers are only at the state level
- After any Graduation one can appear for UPSC exam or SPSC exam

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