

Degree Courses in Punjab and Their Career Scope

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Abstract

Education plays a consequential role for the development of any economy. This paper highlights that in India there are sundry degree courses provided by sundry inculcative institutes. At present the desideratum has been raised and the cull of courses has additionally been raised. In this paper, the sundry courses and their further scope has been discussed.

Keywords: Management Education, Education research, Skill Sets, Course recommendation system

Introduction

Before independence, the Britishers ruled over India; the major reason for that was illiteracy of Indian people. After independence, the major thing which policy makers thought was needed for the development and raising the living standard of India was education. Education plays a major role for the development of every country. Educated people have a different outlook for every situation than uneducated people. It is education that teaches us cause and effect relationship. Education helps us in raising our standard of living. At present, education is the need of the time. Today in 21st century, uneducated people cannot survive for long. For a good life, one must be educated. Today, all countries are growing so fast; the main reason for their success is they have educated human capital. Education saves us from orthodox misconceptions. Educated people know the importance of time. There are as usual 24 hours in a day. But in 21st century, it seems like time has been decreased. Only educated people can optimally utilize their time and scarce economic resources. Education also helps in personality development, brain growth, removing social evils such as female feticide, theft, drug addiction, unemployment, gambling, frauds, insecurity of women, increasing population, economic inequality, orthodoxy, etc.

Present Scenario

Children's Access to and Use of Internet

Internet is also playing a major role for imparting education

in India (Table 1). There are various internet-based courses also.

Table 1. Percentage of Children Aged 3 to 18 Who Use Internet from Home³

S. No.	Age group	2013	2015
1	3 and 4 year olds	31%	39%
2	5 to 10 year olds	50%	54%
3	11to14 year olds	65%	65%
4	15 to 18 year olds	77%	76%

Courses Available in India

According to the need of time, there are various technical, professional, IT-based, graduation and post-graduation courses available in India, such as management courses, science courses, engineering courses, medical courses, commerce courses, non-medical courses, humanities courses, computer courses, IT-based courses, film and TV courses, etc. There are various government and private institutes providing these courses. Today, we are living in a modern century. The need of education is much more at this time than ever before. Even the concept of education is not same as it was many years ago. Today, there are various courses, degree courses, professional courses, technical courses, etc. There are various practical courses and training programs also. Various schools, colleges, technical institutes, professional institutes are there to impart education. The government is also playing a major role for the development of education by providing scholarships, free education, opening government education institutes,

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etc. The government also plays a major role for imparting education in rural areas, providing special schemes for girl child, free education facilities, etc. According to national center for education statistics report 2018, the percentage of recent high school graduates enrolled in colleges is 70% in 2016 that was 69% in 2015. Students have a variety of choice, so one can choose the course according to one's interest. The scope of these courses is given below.

Engineering Courses

The scope of engineering courses is very vast such as mechanical engineering, electrical engineering, mining engineering, chemical engineering, computer science engineering, etc. Due to various public sector and private sector job opportunities in engineering sector, the education system of the country has evolved. There are various world sphere and private sector institutions that provide engineering science pedagogy to the students and help them in making their bright toter. Following are some of the most popular branches of engineering in India.

Mechanical Engineering

Mechanical engineering is the discipline that applies engineering, physics, engineering mathematics, and materials science principles to design, analyze, manufacture, and maintain mechanical systems. It is the branch of engineering that involves the design, production, and operation of machinery.

Job Description

Mechanical engineers research, design, develop, build, and test mechanical and thermal devices, including tools, engines, and machines.

Mechanical engineers typically do the following:

- Analyze problems to see how mechanical and thermal devices might help solve the problem.
- Design or redesign mechanical and thermal devices using analysis and computer-aided design.
- Develop and test prototypes of devices they design.
- Analyze the test results and change the design as needed.
- Oversee the manufacturing process for the device.

Mechanical engineers design and oversee the manufacturing of many products ranging from medical devices to new batteries. They also design power-producing machines such as electric generators, internal combustion engines, and steam and gas turbines as well as power-using machines, such as refrigeration and air-conditioning systems.

Like other engineers, mechanical engineers use computers to help create and analyze designs, run simulations, and

test how a machine is likely to work.

Electrical Engineering

Electrical engineers work in a very wide range of industries and the skills required are likewise variable. These range from basic circuit theory to the management skills required of a project manager. The tools and equipment that an individual engineer may need are similarly variable, ranging from a simple voltmeter to a top-end analyzer to sophisticated design and manufacturing software.

Job Description

The job profile or positions of electrical engineers can be relegated into control engineer, reliability engineer, test engineer, etc.

Job Opportunities

In an astronomically populated country like India, the requirement of energy is never ending. In recent years, the country has witnessed astronomically immense requirement of electric energy and this has engendered numerous opportunities for electrical engineers.

Government Taking Sector of Electrical Engineers

The most regime sectors for electrical engineers are the potency plants of every type, power systems, and thermal plants. The electrical engineers are required in virtually every sector, let that be public or private, for instance, railways, electrical design and consultancy firms, electricity boards, all types of manufacturing industries, utility companies, etc.

Mining Engineering

is an engineering discipline that applies science and technology to the extraction of minerals from the earth. Mining engineering is associated with many other disciplines, such as geology, mineral processing and metallurgy, geotechnical engineering, and surveying.

Mining Engineering: Salary

Mining engineering salaries are usually determined by the level of skill required, where the position is, and what kind of organization the engineer is working for. When comparing salaries from one region to another, cost of living and other factors need to be taken into consideration.

Mining engineers in India earn relatively high salaries in comparison to many other professions, with an average salary of \$15,250. However, in comparison to mining engineer salaries in other regions, such as Canada, the United States, Australia and the United Kingdom, Indian salaries are low.

Chemical Engineering

Chemical engineering is a branch of engineering that uses principles of chemistry, physics, mathematics, and economics to efficiently use, produce, transform, and transport chemicals, materials, and energy. A chemical engineer designs large-scale processes that convert chemicals, raw materials, living cells, microorganisms, and energy into useful forms and products.

Chemical engineers are involved in many aspects of plant design and operation, including safety and hazard assessments, process design and analysis, control engineering, chemical reaction engineering, construction specification, and operating instructions.

Government Sectors Taking Chemical Engineers include thermal power industry, atomic power, automobile industry, air conditioning and refrigeration industry

Commerce and Management Courses

These courses provide the cognition of methods of accounting, economics, business, management, mathematics, banking, etc., such as Bachelor of Commerce (B.Com), Bachelor of Business Studies (BBS), Bachelor of Business Management (BBM), Bachelor of Business Administration (BBA), and Bachelor of Management Studies (BMS).

Bachelor of Commerce (B. Com)

The Bachelor of Commerce course guides students about the general idea of buying and selling of goods, cost factors, profit maximization with service motive. The B.Com degree can help establish a career in finance, accounts, economics, business, etc., based upon the course specification.

Bachelor of Management Studies (BMS)

The Bachelor of Management Studies degree helps students in gaining practical experience, which they studied during class room sessions. It helps the students in application of class room learnt theories in practical life. It has a more practical significance as compared to other courses.

Some of the subjects studied in this course include business mathematics, operational research, managerial economics, business ethics and corporate social responsibility, corporate governance, human resource management, training and development, etc.

Bachelor of Business Studies (BBS)

This course provides the students with specialized knowledge in a particular class of business. A student can choose the stream according to his interest. This course provides practical knowledge to the learner.

Bachelor of Business Administration (BBA)

This is one of the most important management courses. One can do this course in air travel management, HR, finance and accounting, marketing and sales, hotel and tourism management, information technology and international business, and banking and insurance.

Bachelor of Business Management (BBM)

Bachelor of business management is a program that is aimed at both practical and theoretical knowledge. Some of the subjects in this course are, marketing, business laws and ethics, economics, project management, agriculture business, etc.

Medical Courses

The scope of medical courses is also very wide. The *medical field* is one of the best, reputed and respected professional fields in India and abroad. There are certificate courses, medical diploma courses, bachelor degree courses, master degree courses, and many short-time knowledge-booster courses for medical professionals. For admission to the bachelor degree, the students have to prepare for medical entrance test after 12th standard. The students must have science with Biology in 12th standard. NEET is the only national level medical entrance test after 12th. Some universities like AIIMS and JIPMER 2019 conduct their own entrance examinations. Candidates with PCB or PCMB subjects in class 12th can appear for AIPMT for admission to top medical colleges in India. Upon completion of the course, one can choose to get into pharmacy industry, hospital, research labs, and other related industries in India and abroad.

Undergraduate Degree/Diploma

Bachelor of Medicine and Bachelor of Surgery, Bachelor of Dental Sciences, Bachelor of Homeopathic Medicine & Surgery, Bachelor of Ayurvedic Medicine & Surgery, Diploma in Homeopathic Medicine & Surgery, Bachelor in Unani Medicine, Bachelor of Veterinary Sciences & Animal Husbandry, Bachelor of Pharmacy, Diploma of Pharmacy, Bachelor of Occupational Therapy, Bachelor of Medical Laboratory Technology, Bachelor of Physiotherapy, Bachelor of Science in Nursing, Bachelor of Naturopathy, Yogic Sciences, etc. All these courses vary according to duration and interest.

Humanity Courses

It comprises variety of subjects including English, Hindi, Punjabi, sociology, economics, math, fashion, dance, music, media, cultural studies, communication, history, religion, anthropology, geography, travel and tourism, interior design, philosophy, etc.

Conclusion

From above, we can conclude that there are various courses available in India. All these courses differ from each other in form of their nature, interest, time duration, cost, future scope, etc. One can choose any of these after analyzing all these factors. Various professional courses are also there which provide job opportunities. This paper summarizes all the students deserve to understand and enjoy science, and helping teachers offer rich instruction will require building similarly rich learning environments for all science teachers. It is one that engages students in learning scientific and engineering practices, disciplinary core ideas, and crosscutting concepts. To achieve this new vision, teaching and learning in science classrooms will need to change, and so, too, will professional learning opportunities for teachers.

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