

# Stream/Subject Information



# History

## IMPORTANCE OF HISTORY AS A DISCIPLINE

- a) History helps us develop a better understanding of the world.
- b) History helps us understand ourselves and others .
- c) History teaches a working understanding of change.
- d) History helps us better decision makers.
- e) History helps us develop a new level of appreciation for just about everything.

- Career:
- Archaeologist
- Museologist
- Museum Curator
- Archivists
- Civil Services



# **POLITICAL SCIENCE HAS GREAT SCOPE.**

- 1. IT EQUIPS US TO APPLY SOCIAL ETHICS TO UNIVERSAL HUMAN PROBLEMS BY IDENTIFYING COMMUNITY NEEDS.**
- 2. IT DEVELOPS COMMUNICATION SKILLS, CRITICAL AND LOGICAL THINKING AND DEBATING SKILLS - SKILLS ESSENTIAL TO A CAREER IN POLITICS.**
- 3. IT PREPARES US TO PURSUE A CAREER IN LAW.**
- 4. IT GIVES US AN INSIGHT INTO HUMAN BEHAVIOR AND ORGANIZATIONAL DYNAMICS EQUIPPING US WITH LEADERSHIP SKILLS IN THE FIELD OF BUSINESS. CEOS OF SEVERAL FORTUNE 500 COMPANIES ARE POLITICAL SCIENCE MAJORS**
- 5. IN THE FIELD OF JOURNALISM - MEDIA THE KNOWLEDGE OF POLITICAL SCIENCE PROVIDES A VERY STRONG FOUNDATION.**
- 6. ANYONE ASPIRING FOR THE CIVIL SERVICES BENEFITS OUT OF A KNOWLEDGE OF POLITICAL SCIENCE.**
- 7. THE KNOWLEDGE OF POLITICAL SCIENCE HELPS IN THE SPHERE OF COMMUNITY ADVOCACY AND POLITICAL ENTREPRENEURS.**
- 8. INTERNATIONAL ORGANIZATIONS (UNO, NGOS) RELY UPON KNOWLEDGE GAINED FROM POLITICAL SCIENCE.**
- 9. POLITICAL ANALYSTS, LOBBYISTS AND GOVERNMENT LIAISONS IS ANOTHER AREA THAT CAN BE EXPLORED APART FROM TEACHING, RESEARCH AND ENVIRONMENTAL POLITICS.**

## Informatics Practices - Code No. 065

It is offered to students who apply for **Commerce without Mathematics**  
In Informatics Practices we learn :- Stream

- Identify the **Components of Computer System**.
- Create **Python programs** using different data types, lists, dictionaries Series, Data frames and apply various operations.
- Perform **aggregation operations, calculate descriptive statistics**.
- **Visualize data using relevant graphs**.
- Explain **Database Concepts and Relational Database Management Systems**.
- **Retrieve and manipulate data** in RDBMS using **Structured Query Language**.
- Design SQL queries using **Aggregate Functions**.
- **Import/Export data** between SQL database and Pandas. (**Linking Python with MySql**)
- **Learn Terminology related to Networking and Internet**.
- **Identify internet security issues and configure browser settings**.
- Identify the **Emerging trends in the fields of Information Technology**.
- Explain the **Impact of technology on society** including gender and disability

# Engineering Graphics

## ▶ Introduction to Engineering Graphics

- ▶ Engineering Graphics is a subject that aims to give understanding of how the gadgets and objects (such as automobiles, air planes, ships, electrical appliances, mobile phones, furniture etc.) are designed before they go into manufacturing in a factory. The first real size object together with all its features and functions is called as a **prototype**. 'EG' is an integral part of all the disciplines and branches of **B Tech, B Arch and B Des** courses, the world over. Knowledge of these aspects helps one to look for a career as an engineer, an architect, a designer and a planner, which are highly rewarding.

## ▶ Benefits of studying EG at the school level

- ▶ 1. Studying EG helps a student develop visualization skills and boost imagination power, that are required in plenty to succeed in entrance exams like JEE Main, JEE Advanced etc.
- ▶ 2. The basics learnt in classes 11 and 12 help you to tame JEE Main Paper-2 for entry to NITs, SPAs and NIDs, institutes of National and International repute.
- ▶ 3. EG is a **highly scoring subject**. You can look forward to scoring a near cent percent marks in this subject in the Board exams with a little effort.
- ▶ 4. **Boost your overall percentage** in Board exams.
- ▶ 5. The subject is **purely practical based, no theory** is asked in the exam. Therefore, **no cramming** of theory is required. We do sufficient practise in the class itself which is enough to gain all the knowledge and expertise required at this level.



# Computer Science

## Covers:

- **Python:** Detailed study of programming language
- **Mysql:** Basic commands of SQL
- **Networking:** Terms and detail study of technology involved

## Benefits

- **Development of coding skills**
- **Provides base for programming subject for first year of Engineering**
- **Career options related to hardware and software development.**
- **BCA**
- **Eligible for Bachelor of computer science courses.**

# Difference Computer Science and Informatics Practices

<b>Informatics Practices</b>	<b>Computer Science</b>
<b>Offered to Commerce students</b>	<b>Offered to Science students</b>
<b>Designed as per commerce subjects covers aggregate functions and plotting of graphs connected to economics</b>	<b>Covers Python programming in detail, very helpful for higher studies in same stream.</b>



# Who can opt for "Applied Maths" in Class 11

Class X

```
graph TD; A[Class X] --> B[Basic Level Maths]; A --> C[Standard Level Maths]; B --> D[Can opt for ONLY Applied Maths]; C --> E[Can opt for either course - Standard / Applied];
```

Basic Level Maths

Standard Level Maths

Can opt for **ONLY Applied Maths**

Can opt for either course  
– Standard / Applied

# MATHEMATICS

```
graph TD; M[MATHEMATICS] --> S[STANDARD (041)]; M --> A[APPLIED (241)];
```

## STANDARD (041)

Students wanting to pursue Pure Mathematics at University level like - Mathematics Honours, Physical Sciences & Engineering.

All Entrance Exams

Continues to be an Elective Subject

Can pursue all Graduation Courses

More Concepts and Understanding based.

Available Resources

## APPLIED (241)

Students who do not want to study core Mathematics but use it for data interpretation, business, finance, graphical representation and other similar things

Entrance Exam - BBA / BMS / BCA / Bank PO / Actuarial Sc. / ISI / ICWA / B.Com (H)

This is also an Elective Subject

Designed for Commerce / Economics / Actuarial Sciences and Humanities Studies.

More Application Based, however not simple as portrayed.

Limited Resources



# IT STREAM (VOCATIONAL)

- INFORMATION TECHNOLOGY
- WEB APPLICATIONS



# Main Objectives

- ▶ The present course curriculum been designed as such to make students capable of independently working on a desktop and to be able to develop applications to handle computations of small scale and record keeping.
- ▶ With extensive demand for designers the course aims at inculcating not only programming skills but also the understanding of graphics.
- ▶ Understand basics of databases and SQL to handle databases.
- ▶ Develop programming skills in Java.
- ▶ To familiarize the students with the web programming languages and photo editing software.
- ▶ To make the students capable of publishing a website independently.

# FURTHER STUDIES

- ▶ BA (programming) and other programming oriented applied undergraduate courses of different universities.
- ▶ Bachelor of Computer Applications (BCA)
- ▶ Graduation in Multimedia and Website Designing
- ▶ Diploma in Web Designing
- ▶ PG Diploma in Internet & Web Designing.
- ▶ Graduation and Diploma courses in E-Commerce and web Design.
- ▶ B.A LLB or BBA LLB
- ▶ B.A
- ▶ BBA
- ▶ HOTEL MANAGEMENT
- ▶ JOURNALISM

# Career Opportunities

- ▶ Customer Service Associate
- ▶ Customer Service Representative
- ▶ Customer Care Executive
- ▶ Customer Service Advisor
- ▶ Helpdesk Coordinator
- ▶ Customer Support Representative
- ▶ IT Support Specialist
- ▶ Documentation Assistant
- ▶ Programming Assistant
- ▶ Web Applications Developer
- ▶ Front End Web Developer
- ▶ Back-end web Developer
- ▶ Design and Layout analyst
- ▶ Web marketing analyst
- ▶ Senior Web analyst
- ▶ Brand Development
- ▶ E-Commerce Design and Development
- ▶ Product Designer
- ▶ Design Studio
- ▶ IT companies
- ▶ UX Designer (User Experience Designer)
- ▶ U I Designer (User Interface Designer)



# ENTREPRENEURSHIP

IT STREAM

## Subject offered in IT Stream

- Entrepreneurship is a procedure of designing , beginning and running a new business. Example : a Start-Up company offering a product or service.
- It is a course offered like any other course within the CBSE XI and XIIth division for the Board exam system .
- It offers basic insight and understanding into the Principles of Entrepreneurship. Such as definitions, types, requirements, government assistance and programs, financial reports, etc.
- Knowledge of Entrepreneurship after BCA can help you give a kick start to a business on your own.
- Entrepreneurship as a subject done in high school can help you start your own restaurant after a degree in Hotel Management.