

# IT - Information Technology Enabled Services (IT-ITeS)

## Introduction of the Sector

In today's digital era Information and Communication Technology have become one of the basic requirements of society. It is difficult to think of any event without the use of digital devices. ITeS sector includes IT services, engineering design, R & D services and BPO services.

IT includes a wide variety of operations that uses information technology to improve the efficiency of any organization. ITeS services are delivered

over telecom or data network to a range of external business areas. The changing economic and business conditions, rapid technological innovation, the proliferation of the internet and globalization are creating an increasingly competitive environment.

The role of technology has evolved from supporting corporations to transforming them. All these factors have made IT-ITeS a competent vertical among others.

## B. Voc. in Software Development

### Course Introduction

Software development is the process of conceiving, specifying, designing, programming, documenting, testing and bug fixing involved in creating and maintaining applications, frameworks or other programming segments.

Software development may likewise be called application development and software design. Software development is a procedure of composing and maintaining the source code, however in a broader sense, it incorporates all that is included between the conceptions of the desired software through to the final manifestation of the software. System software underlies applications and the programming procedure itself and is often developed independently.

Software developers are the creative personalities behind computer programs. Some develop the applications that enable individuals to do specific assignments on a computer or another device. Others build up the fundamental frameworks that run the gadgets or that control networks. Every business firm or association needs a software program to perform different tasks which can ease out the work of a person and reduce the requirement of labour.

It is a well-known fact that for any kind of Software application, development of software is required.

B. Voc. course in Software Development not only covers programming aspect but also covers other capabilities required in the overall process of software development.

### Eligibility for Admission

The eligibility for admission to B. Voc. in Software Development shall be 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

Career prospects after B. Voc. in Software Development are working as a *Software Developer*, *Front-end Developer*, *Backend Developer*, *Web Developer*, *Desktop Developer*, *Mobile Developer*, *Software Engineer*, *Database Administrator*, *IT Architect*, *Network Administrator*, *Systems Analyst*, *Graphics Developer*, *Game Developer*, *Data Scientist*, *Big Data Developer*, *CRM Developer*, *Software Development Engineer in Test (SDET)*

## Semester-wise Listing of Courses

SEMESTER I		
Subject Code	Subject Name	Credits
GE 1.1	Functional English	4
GE 1.2	Communication Skills - I	4
GE 1.3	Computing Skills - I	4
SD 1.1	IT Foundations and Programming Concepts	2
SD 1.2	Web Designing	2
SD 1.3	Programming in Python	2
SDVP 1	Vocational Practical	12

SEMESTER II		
Subject Code	Subject Name	Credits
GE 2.1	Basics of Economics and Markets	4
GE 2.2	Environment Sciences	4
GE 2.3	Ethics and Governance	4
SD 2.1	Database Management Systems	2
SD 2.2	Object Oriented Programming with Python	2
SD 2.3	Computer Communication and Networks	2
SDVP 2	Vocational Practical	12

SEMESTER III		
Subject Code	Subject Name	Credits
GE 3.1	Communication Skills - II	4
GE 3.2	Financial Literacy	4
GE 3.3	Basics of Legal and HR Policies	4
SD 3.1	Programming with Visual Basic.Net	2
SD 3.2	Data Structure	2
SD 3.3	Web Development using PHP	2
SDVP 3	Vocational Practical	12

SEMESTER IV		
Subject Code	Subject Name	Credits
GE 4.1	Computing Skills - II	2
GE 4.2	Basics of Accounting	4
GE 4.3	Design Thinking	4
GE 4.4	Organizational Behaviour	2
SD 4.1	Object Oriented Programming with JAVA	2
SD 4.2	Linux Operating System - Operations and Management	2
SD 4.3	Software Engineering	2
SDVP 4	Vocational Practical	12

SEMESTER V		
Subject Code	Subject Name	Credits
GE 5.1	Digital Literacy	4
GE 5.2	Health and Wellness	4
GE 5.3	Personal Grooming	4
SD 5.1	Concepts of Data Mining	2
SD 5.2	Software Testing and Project Management	2
SD 5.3	Multimedia Tools and Applications	2
SDVP 5	Vocational Practical	12

SEMESTER VI		
Subject Code	Subject Name	Credits
GE 6.1	Entrepreneurship	4
GE 6.2	Employment Readiness	4
GE 6.3	Effective Workplace Skills & Competencies	4
SD 6.1	Android Mobile Application Development	2
SD 6.2	Technology Trends in IT	2
SD 6.3	Web Application Development with ASP.NET MVC and C#	2
SDVP 6	Vocational Practical	12

**Programme fees:** (Rs. 36,000/-per annum)

**Examination fees:** (Rs. 1,600/- per semester and Rs.3200 per annum)

**Caution Deposit (Refundable):** Rs.5000

**Convocation Fees:** Rs.2000/- (In absentia Rs.2500/-)

**Campus Immersion Expenses:** (Travel & Logistics for 7-10 days on Campus) are not part of the fee structure and the expenses will have to be met by the students followed by communication.

Note: Laptop / Desktop is recommended for the program.