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<https://data-flair.training>

### Fundamental courses mandatory for every aspiring developer:

1. C, C++, DSA  
OR
1. Python, DSA
2. Web Development with HTML, CSS, JS
3. SQL

### After this, based on interest students can choose any one of the mentioned streams:

- 1. Python Developer:** Python, Django
- 2. Data Science / ML / AI:** Python, Matplotlib, NumPy, OpenCV, Pandas, Machine Learning, Big Data
- 3. Data Engineer:** Java, Python, Big Data - Hadoop, Apache Spark, Kafka
- 4. Enterprise Application Development:** Java, Advanced Java, JSP, Servlets, Hibernate, Spring

BTech all branches - CSE, IT, E&TC, Electrical, Mechanical, Civil students:

**1<sup>st</sup> year:**

- **C** - <https://data-flair.training/courses/free-c-programming-course-hindi/>
- **C++** - <https://data-flair.training/courses/free-cpp-course-hindi/>
- **DSA** - <https://data-flair.training/courses/data-structures-and-algorithms/>
- **Python** - <https://data-flair.training/courses/free-python-course-hindi/>  
<https://data-flair.training/courses/python-course/>

**2<sup>nd</sup> Year:**

- **Java** - <https://data-flair.training/courses/free-java-course-hindi/>  
<https://data-flair.training/courses/free-java-course-hindi/>
- **Web Development with HTML CSS JS** - <https://data-flair.training/courses/free-web-development-course-hindi/>
- **SQL** - <https://data-flair.training/courses/free-sql-course-hindi/>
- **Django (optional)** - <https://data-flair.training/courses/free-python-django-course-hindi/>

**3<sup>rd</sup> Year:**

- **Advanced Java** - <https://data-flair.training/courses/free-advanced-java-course-hindi/>
- **JSP** - <https://data-flair.training/courses/free-jsp-course-hindi/>
- **Servlets** - <https://data-flair.training/courses/free-servlet-course-hindi/>
- **Hibernate** - <https://data-flair.training/courses/free-java-hibernate-course-hindi/>
- **Spring** - <https://data-flair.training/courses/free-java-spring-framework-course-hindi/>

OR

- **Matplotlib** - <https://data-flair.training/courses/free-matplotlib-course-hindi/>
- **NumPy** - <https://data-flair.training/courses/free-numpy-course-hindi/>
- **OpenCV** - <https://data-flair.training/courses/free-opencv-computer-vision-course-hindi/>
- **Pandas** - <https://data-flair.training/courses/free-python-pandas-course-hindi/>

**4<sup>th</sup> Year:**

- **Big Data – Hadoop** - <https://data-flair.training/courses/free-big-data-hadoop-course/>
- **Apache Spark** - <https://data-flair.training/courses/free-spark-scala-course/>
- **Kafka** - <https://data-flair.training/courses/free-kafka-course/>
- **Machine Learning** - <https://data-flair.training/courses/machine-learning-course-hindi/>

## BTech in Artificial Intelligence / Data Science / ML

### 1<sup>st</sup> Year:

- **C** - <https://data-flair.training/courses/free-c-programming-course-hindi/>
- **DSA** - <https://data-flair.training/courses/data-structures-and-algorithms/>
- **Python** - <https://data-flair.training/courses/free-python-course-hindi/>  
<https://data-flair.training/courses/python-course/>

### 2<sup>nd</sup> Year:

- **Java** - <https://data-flair.training/courses/free-java-course-hindi/>  
<https://data-flair.training/courses/free-java-course-hindi/>
- **Web Development with HTML CSS JS** - <https://data-flair.training/courses/free-web-development-course-hindi/>
- **SQL** - <https://data-flair.training/courses/free-sql-course-hindi/>

### 3<sup>rd</sup> Year:

- **Matplotlib** - <https://data-flair.training/courses/free-matplotlib-course-hindi/>
- **NumPy** - <https://data-flair.training/courses/free-numpy-course-hindi/>
- **OpenCV** - <https://data-flair.training/courses/free-opencv-computer-vision-course-hindi/>
- **Pandas** - <https://data-flair.training/courses/free-python-pandas-course-hindi/>
- **Machine Learning** - <https://data-flair.training/courses/machine-learning-course-hindi/>

### 4<sup>th</sup> Year:

- **Big Data – Hadoop** - <https://data-flair.training/courses/free-big-data-hadoop-course/>
- **Apache Spark** - <https://data-flair.training/courses/free-spark-scala-course/>
- **Apache Flink** - <https://data-flair.training/courses/free-apache-flink-course/>
- **Kafka** - <https://data-flair.training/courses/free-kafka-course/>

**BSc, BCA****1<sup>st</sup> year:**

- **C** - <https://data-flair.training/courses/free-c-programming-course-hindi/>
- **C++** - <https://data-flair.training/courses/free-cpp-course-hindi/>
- **DSA** - <https://data-flair.training/courses/data-structures-and-algorithms/>

**2<sup>nd</sup> year:**

- **SQL** - <https://data-flair.training/courses/free-sql-course-hindi/>
- **Python** - <https://data-flair.training/courses/free-python-course-hindi/>  
<https://data-flair.training/courses/python-course/>

OR

- **Java** - <https://data-flair.training/courses/free-java-course-hindi/>  
<https://data-flair.training/courses/free-java-course-hindi/>

**3<sup>rd</sup> year**

- **Web Development with HTML CSS JS** - <https://data-flair.training/courses/free-web-development-course-hindi/>
- **Django** - <https://data-flair.training/courses/free-python-django-course-hindi/>

OR

- **Advanced Java** - <https://data-flair.training/courses/free-advanced-java-course-hindi/>

**BCom, BA, BBA (Any Graduation)****1<sup>st</sup> Year**

- **C** - <https://data-flair.training/courses/free-c-programming-course-hindi/>

**2<sup>nd</sup> year**

- **DSA** - <https://data-flair.training/courses/data-structures-and-algorithms/>

**3<sup>rd</sup> year**

- **Web Development with HTML CSS JS** - <https://data-flair.training/courses/free-web-development-course-hindi/>
- **Python** - <https://data-flair.training/courses/free-python-course-hindi/>  
<https://data-flair.training/courses/python-course/>

## MCA and MSc Computers (Any Post Graduation)

If students have covered any technologies in graduation, they can skip that and proceed to next one

### 1<sup>st</sup> year:

- **C** - <https://data-flair.training/courses/free-c-programming-course-hindi/>
- **C++** - <https://data-flair.training/courses/free-cpp-course-hindi/>
- **DSA** - <https://data-flair.training/courses/data-structures-and-algorithms/>
- **Web Development with HTML CSS JS** - <https://data-flair.training/courses/free-web-development-course-hindi/>
- **SQL** - <https://data-flair.training/courses/free-sql-course-hindi/>
- **Python** - <https://data-flair.training/courses/free-python-course-hindi/>  
<https://data-flair.training/courses/python-course/>

OR

- **Java** - <https://data-flair.training/courses/free-java-course-hindi/>  
<https://data-flair.training/courses/free-java-course-hindi/>

### 2<sup>nd</sup> Year:

- **Matplotlib** - <https://data-flair.training/courses/free-matplotlib-course-hindi/>
- **NumPy** - <https://data-flair.training/courses/free-numpy-course-hindi/>
- **OpenCV** - <https://data-flair.training/courses/free-opencv-computer-vision-course-hindi/>
- **Pandas** - <https://data-flair.training/courses/free-python-pandas-course-hindi/>
- **Machine Learning** - <https://data-flair.training/courses/machine-learning-course-hindi/>

OR

- **Big Data – Hadoop** - <https://data-flair.training/courses/free-big-data-hadoop-course/>
- **Apache Spark** - <https://data-flair.training/courses/free-spark-scala-course/>
- **Kafka** - <https://data-flair.training/courses/free-kafka-course/>

OR

- **Advanced Java** - <https://data-flair.training/courses/free-advanced-java-course-hindi/>
- **JSP** - <https://data-flair.training/courses/free-jsp-course-hindi/>
- **Servlets** - <https://data-flair.training/courses/free-servlet-course-hindi/>
- **Hibernate** - <https://data-flair.training/courses/free-java-hibernate-course-hindi/>
- **Spring** - <https://data-flair.training/courses/free-java-spring-framework-course-hindi/>