

CAP 100M

Programme Orientation

Lecture # 1

Program Description

Program Specific Outcomes

- **PSO1** : Understand and comprehend advanced level of programming, data structures, databases, networking, cloud computing, cyber security, machine learning and data
- **PSO2** : Demonstrate competence in using computer science concepts and computational tools for simulation and digital transformation.
- **PSO3** : Ability to effectively apply the information technology concepts to analyze, design and develop cost effective solutions to the societal problems.
- **PSO4** : Provide user friendly and need based mobile, web or cloud-based solutions to the society.

Course Outcomes

- **CO1** :: Learn about the companies, technologies existing in the IT industry
- **CO2** :: Understand the role of career pathways, course outcomes, program outcomes, star courses and specialization for achieving the career goal.
- **CO3** :: Analyze the essentials skills, certifications, competitions supportive for the professional progress.
- **CO4** :: Compose the Dream CV to get into the dream company

Career Pathways at LPU



PLACEMENT PATHWAYS

LPU allows students to create their programme based on their chosen placement pathways -



CORPORATE JOBS

Multiple options or pathways designed according to the competency of the students to prepare them for specific Sector/ job profiles as per needs of the industry.



GOVERNMENT JOBS

To prepare students for civil services, public sector undertakings and jobs in Government sector



HIGHER STUDIES

To prepare students for various national and international entrance tests for admission into higher degree.



RESEARCH

Students are exposed to various research projects and dissertations for the industry and higher studies.



ENTREPRENEURSHIP

Handholding through Startup School and Entrepreneurship : it is to set up new ventures, improve upon and modernize existing businesses, engage in Social Entrepreneurship/ NGO.



STUDY ABROAD

Students can explore various options like Credit Transfer/ International Exposure/ Semester Exchange in USA/ Canada/ Australia/ European countries for study purposes.

Flexible programme structure allows students to do inter-disciplinary minors as well.

Highly Paid Cohorts



Company

Accenture

Wells Fargo

Infosys

Oracle

Amazon

Highly Paid Cohorts



Company (Package)

Netflix (US\$173,503)

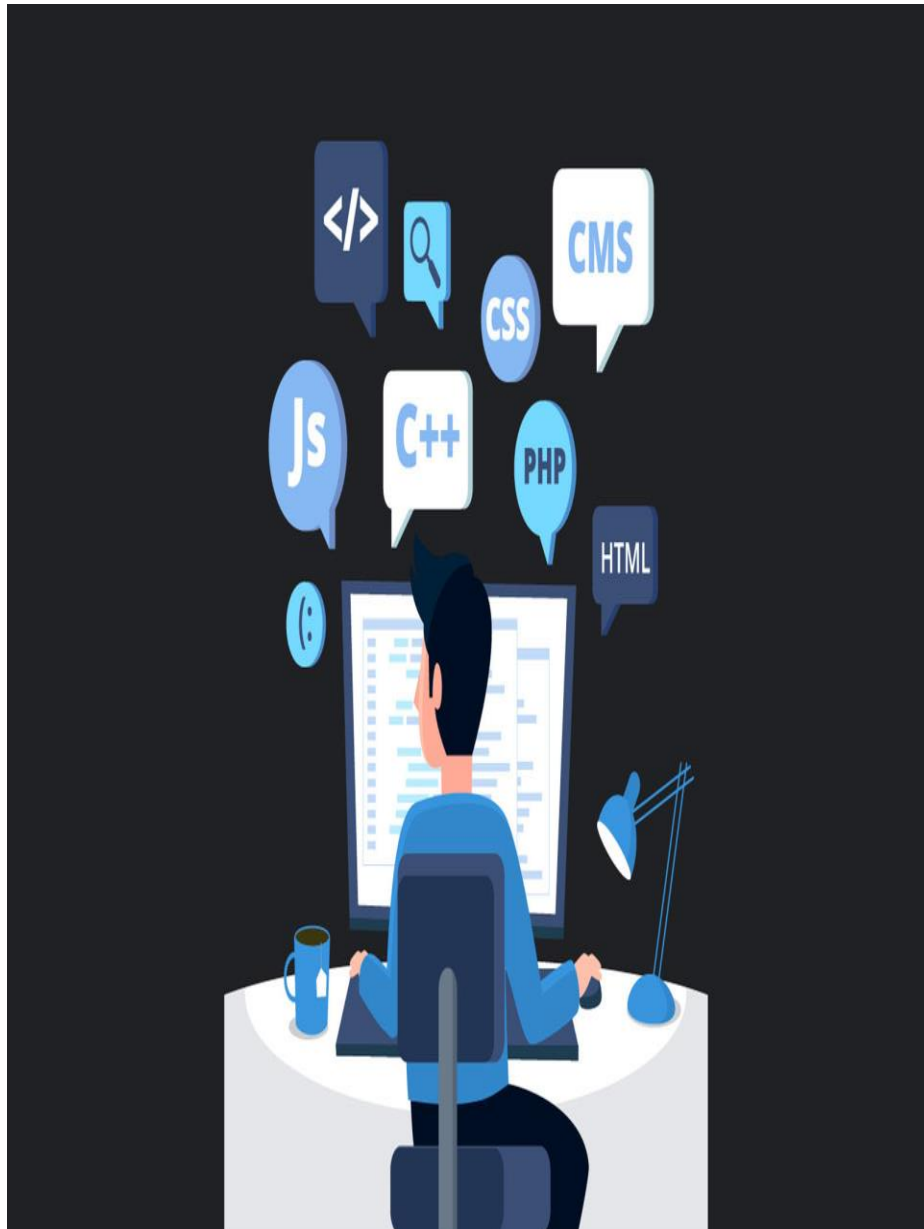
Pinterest (US\$162,931)

Lyft (US\$157,798)

Uber (US\$146,032)

Walmart (US\$137,668)

Highly Paid Cohorts



Company
Google
Apple
Microsoft
Facebook
Amazon

Highly Paid Cohorts



Company (Packages)

Leidos (\$119,545)

Viasat (\$116,000)

Capital One Financial (\$133,635)

MITRE Corporation (\$108,156)

Lockhid Martin (\$104,700)

Highly Paid Cohorts



Company

The NineHertz

Electronic Arts

Nintendo

Ubisoft

Sony Interactive Entertainment

<https://www.softwaretestinghelp.com/game-development-companies/>

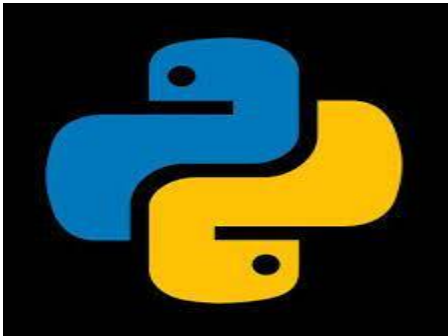
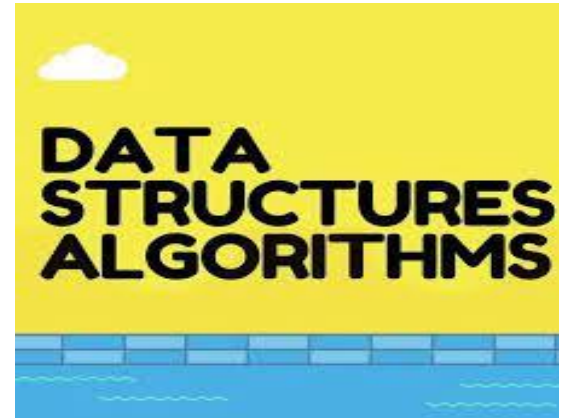
Why Courses

- Courses mapped with highly paid cohorts in the industry.
- Skill set required for highly paid cohorts are delivered as the contents of the course.

Star Courses



shutterstock.com · 393684280



shutterstock.com · 664360489

Why Courses Pedagogy and Evaluation

- Course based MOOC Integration.
- Skill enrichment through industry certification.
- Real time exposure through participation in Competitions, Events, Hackathons etc.
- Project based academic tasks (CA3 and CA4 for practical courses, CA2 and CA3 for theory courses).

Program Scheme Structure

Scheme Nature Description	
Name	Description
BSC	Basic Science
DSC	Discipline Core
DSE	Discipline Elective
LCS	Language & Communication Skills
OEM	Open Minor/Open Elective
PRJ	Project (including Capstone Project and Research Project)
PWE	Pathway Elective
SMN	Seminar
TCF	Training Compulsory – Full term

Pathways in Program

Sr. No	Course Title	Term	Elective Area
1	Pathway Elective 1	1	Govt. Jobs, Higher Studies, Product Development, Service Development
2	Pathway Elective 2	2	Govt. Jobs, Higher Studies, Product Development, Service Development
3	Pathway Elective 3	3	Govt. Jobs, Higher Studies, Product Development, Service Development
4	Pathway Elective 4	4	Govt. Jobs, Higher Studies, Product Development, Service Development

Cyber Security (Specialization 1)

Sr. No	Course Title	Term	Specialization Area
1	Specialization Elective 1	3	Network Administration
2	Specialization Elective 2	3	Securing Network and IT Infrastructure
3	Specialization Elective 3	4	Vulnerability Assessment and Penetration Testing
4	Specialization Elective 4	4	Cyber Forensics

Data Science (Specialization 2)

Sr. No	Course Title	Term	Specialization Area
1	Specialization Elective 1	3	Probability and Statistics
2	Specialization Elective 2	3	Data Science ToolBox
3	Specialization Elective 3	4	Advance Data Visualization
4	Specialization Elective 4	4	Machine Learning

Web Development (Specialization 3)

Sr. No	Course Title	Term	Specialization Area
1	Specialization Elective 1	3	Styling and Scripting for Web Development
2	Specialization Elective 2	3	Web Development
3	Specialization Elective 3	4	Responsive Web Design
4	Specialization Elective 4	4	Web Performance Optimzation

Game Design (Specialization 4)

Sr. No	Course Title	Term	Specialization Area
1	Specialization Elective 1	3	Game Development using Unity Engine
2	Specialization Elective 2	3	Unreal Programming using C++
3	Specialization Elective 3	4	Game AI and Reinforcement Learning
4	Specialization Elective 4	4	Virtual Reality and Augmented Reality in Game Development

Questions???

