LOVELY PROFESSIONAL UNIVERSITY

CAP100M

Programme Orientation

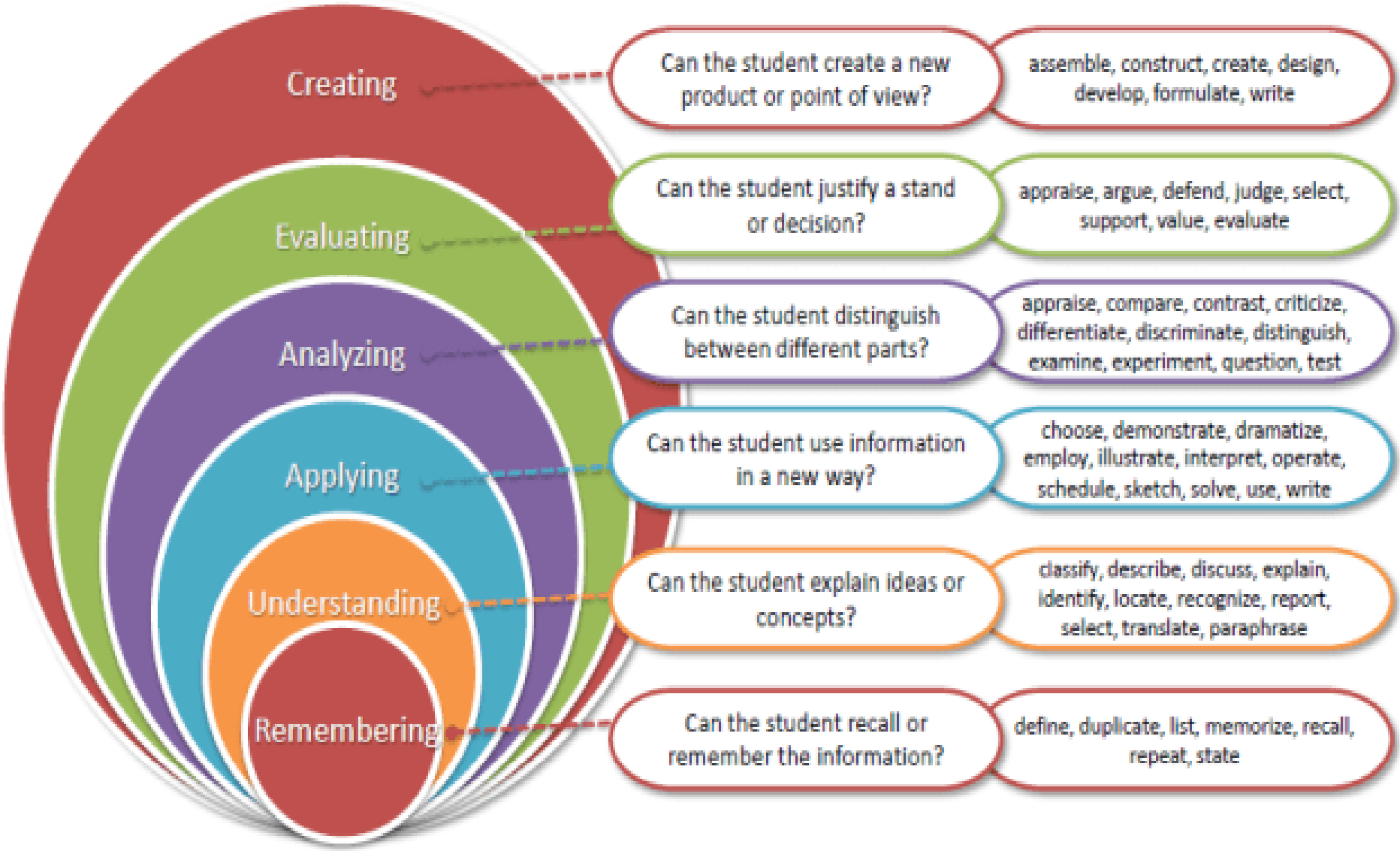
Lecture #0

The kick start session

Program Outcomes

- PO1 : **Computational Knowledge**: Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
- PO2 : **Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
- PO3 : **Design /Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental consideration
- PO4 : **Conduct investigations of complex Computing problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5 : **Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
- PO6 : **Professional Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices. .
- PO7 : **Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.
- PO8 : **Communication Efficacy:** Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions
- PO9 : **Societal and Environmental Concern:** Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.
- PO10 : **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary **environments.**
- **PO11 :** Innovation and Entrepreneurship: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

Revised Bloom's Taxonomy



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

Course details

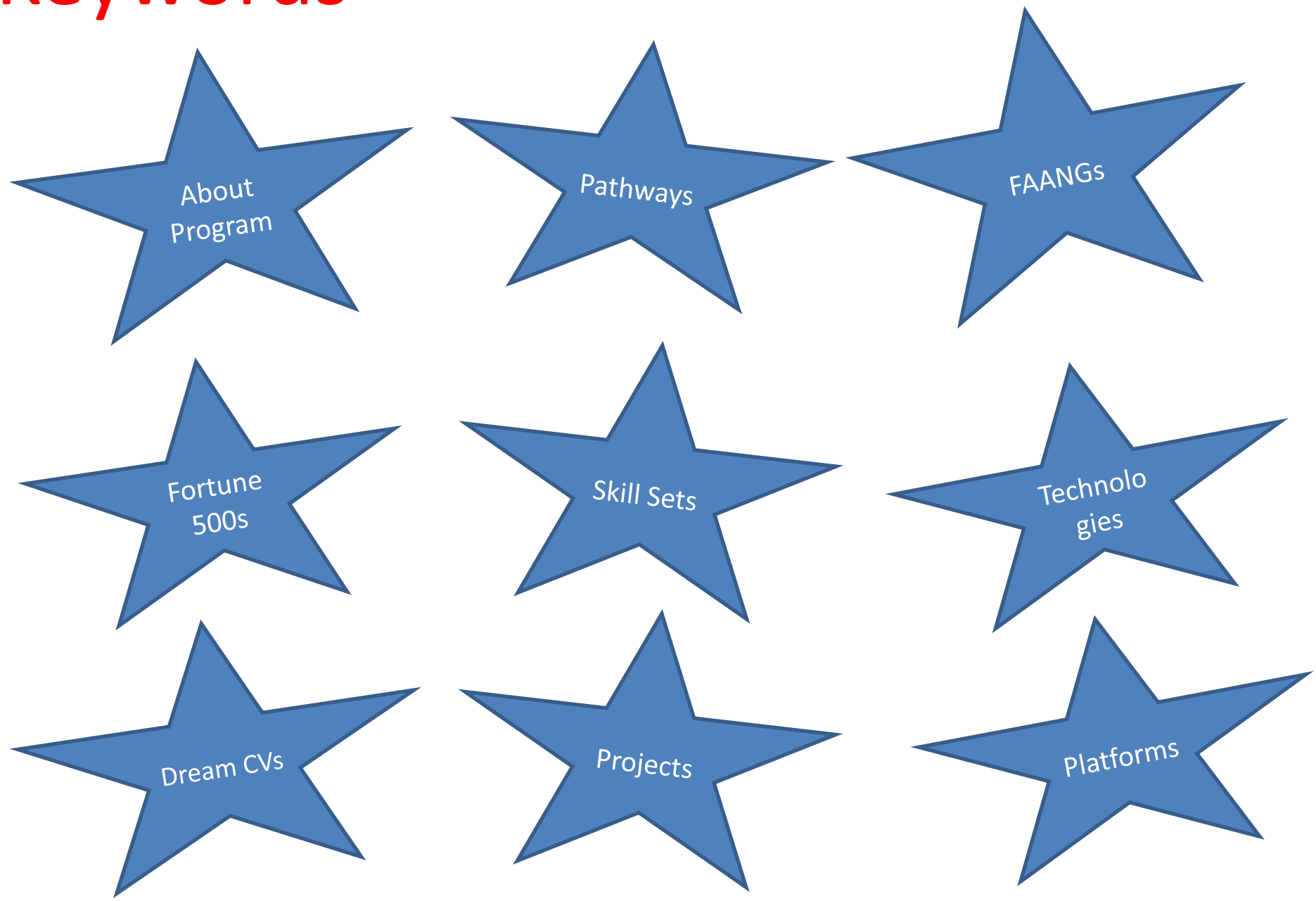
- LTP – 2 0 0 [Two Lectures/week]
- Contact Hours – 2 Hours/ week
- Credits - 2

- **Text Book: NA**
- **Reference Book:** IT CAREER: A ROAD MAP by CHUKKY OPARANDU, CREATESPACE INDEPENDENT PUBLISHING PLATFORM.

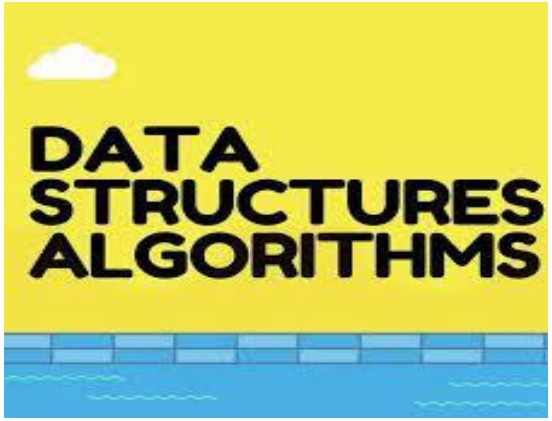
Course Assessment Model

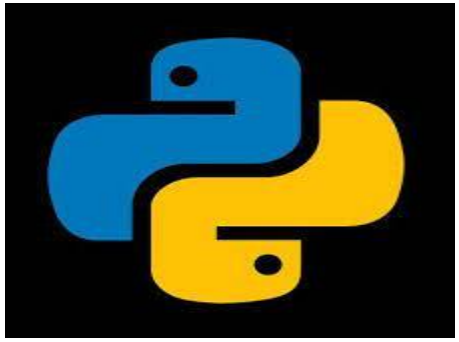
Component	Weightage
Attendance	30%
Continuous Assessments	70%
Mid Term Exam	NA
End Term Exam	NA
Total	**100%**

Keywords


About Program
Pathways
FAANGs
Fortune 500s
Skill Sets
Technologies
Dream CVs
Projects
Platforms

Star Courses





Course Content (Syllabus)

Unit I

Awareness about program and its structure: description of program, duration of the program, program educational outcomes (PEO), program objectives (PO), program specific outcome (PSO) & course outcome (CO), six career pathways at LPU, why STAR courses, STAR course pedagogy and evaluation, salient highlights of the specializations and electives in the program, what is super 30 model

Unit II

Companies and the profiles: product & service based companies, FAANG & Fortune 500 companies, Technical profiles (Software Developers, Data Analysts, Network Analyst), Semi Tech profiles (BDEs, Tech Supports, Content Development), Non Tech profiles (Associate Recruiters, Research Analysts, Product Marketing Analysts), identifying and listening to the role models and professional leaders such as country head, CTO etc., essential skills required for the profiles, profile transitions in a company

Unit III

Technology evolution: ideal technologies for product and service based companies, technologies for different IT verticals (fintech, healthtech, edutech), evolution of technologies (DBMS to RDBMS, SGML to DHTML etc.), Job scenario as per world economic forum & professional societies for different technologies, technology focus & inputs during the program such as Cloud Computing, IOT, Data Science, Machine Learning, web development etc.

Unit IV

Role of projects, competitive participation, digital presence: why technology based project is a major expectation by the companies, students project vs industry project, importance of digital presence on professional platforms, technical community forums, professional clubs, societies associated with technologies and companies

Unit V

Mentoring by Alumni: success stories of alumni excelled in research, industry and entrepreneurship, network building through different sources like LinkedIn, glass door etc., alumni mentor-mentee association.

Unit VI

Engagement of freshmen in identifying their dream careers: Creating first career profile (first step towards the DREAM CV), defining roadmap for short term/ long term career plan, introduction to Gantt chart, role of CV, do's and don'ts in CVs, pitfalls in CV's, in-print CVs vs video CVs, components creation of the professional profile.

Continuous Assessment 1

- Conduct – Week 3/ Lecture 6
- OAS based test which will focus on attributes of the program like
- Program outcomes
- Pathways in the program
- Program and Course Outcomes
- Role of star courses
- Specializations available in the program
- Understanding about Super30 model

Continuous Assessment 2

- Conduct – Week 6/ Lecture 12
- Online submission of an assignment which will focus on your understanding about
- Types of the companies
- Profiles in the companies
- Essential skill sets required for particular companies and profiles
- Adaptation of role model to be followed

Continuous Assessment 3

- Conduct – Week 8 to 14
- Participation in the mock interview where you will be accessed for
- Basic technical understanding
- Communication skills
- Behavioral aspects

Continuous Assessment 4

- Conduct – Week 9/ Lecture 18
- Online submission of an assignment which will focus identification of -
- Skill enhancing certification
- Participation in technical events
- Association with communities, associations etc.

Continuous Assessment 5

- Conduct – Week 14/ Lecture 27
- Online submission DREAM CV to achieve the dream profile in dream company:
- Identification of company and role
- Adaptability of technology
- Skill enrichment through certification, events, projects.
- Road map with mile stones for getting into dream company.

Questions???