

## **ANL588 Applied Project**

**Level:** 5

**Credit Units:** 10 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

### **Synopsis:**

ANL588 Applied Project is an opportunity for students to apply the techniques and skills they have acquired during their tenure as a graduate diploma student in analytics and visualisation to an organisation-relevant digitalisation project meant to contribute towards the transformation efforts of the organisation the student is working in. The student is expected to identify a suitable digitalisation problem the organisation is facing, and then design and implement a full-analytics stack to acquire, transform, analyse, visualise, and report their findings as part of a scalable and reproducible workflow. The student is expected to present and defend their project at periodic checkpoints during this course.

### **Topics:**

- Problem identification
- Data needs
- Project design
- Project proposal
- Project planning and establishing milestones
- Implementing data acquisition stack
- Implementing analytics stack
- Implementing visualisation stack
- Recommendations based on insights generated
- Data visualisation storyboarding
- Project Report Writing
- Project Presentation

### **Textbooks:**

Foster Provost and Tom Fawcett.: Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking O'Reilly Media  
ISBN-13: 9781449361327

**Learning Outcome:**

- Evaluate the suitability of possible analytics methodologies for the project proposal
- Critique the effectiveness of the proposed solution
- Defend project results to peers and supervisors
- Plan the project timeline and milestones to be achievable in the given timeframe
- Design and implement a full analytics stack that meets the needs of the project
- Create impactful data visualisations and storyboards for effective communication of insights and recommendations for decision making

**Assessment Strategies (Evening Class):**

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Continuous Assessment	PROJECT PROPOSAL 1	20
	PROGRESS REPORT 1	20
Overall Examinable Components	FINAL REPORT	40
	FINAL PRESENTATION	20
<b>Total</b>		<b>100</b>