OPEN ELECTIVE – DESIGN THINKING]

COURSE PLAN – PART I	
Name of the programme and specialization	OPEN ELECTIVE
Course Title	Design Thinking

Course Code		No. of Credits	3
Course Code of Pre-requisite subject(s)	-		

Session	January 2020	Section (if, applicable)	A / B
Name of Faculty	S ARUL DANIEL	Department	EEE
Official Email	daniel@nitt.edu	Telephone No.	3256

Name of Course Coordinator(s) (if, applicable)			
Official E-mail		Telephone No.	
Course Type (please tick appropriately)	☐ Core course	☐ Elective course	

Syllabus (approved in BoS)

Unit 1 Understanding human needs
Creating, Delivering and Sustaining values, empathy and understanding, opportunities

Unit 2 Concept visualization
Methods and Mindsets – outcome formation – case studies

Unit 3 Strategies
Principles and framework, scalability, Assessing current stage, framing opportunities

Unit 4 Transformation
Enterprise innovation, preparing quests, competency mapping, team charters and articulation

Unit 5 Data Mining and Analysis
Data mining, soft data conversion, Creating human archetypes, experience mapping, creating activity systems

COURSE OBJECTIVES

1. Conceive a need for an enterprise
2. Carry out strategic planning
3. Evolve methodology for innovative implementation

MAPPING OF COs with POs - NA – Global elective

COURSE PLAN – PART II			
COURSE OVERVIEW			
The application of key principles of the world of design to promote breakthrough solutions to human needs.			
COURSE TEACHING AND LEARNING ACTIVITIES			(Add more rows)
S.No.	**Week/Contact Hours**	**Topic**	**Mode of Delivery**
1.	1	Course overview	
2.	2-4	Wicked problems	
3.	5	Listening skills	
4.	6	Empathy and values	
5.	7	Values	
6.	8	Land scaping	
7.	9-12	Structuring needs and mindsets	
8.	13-14	Outcome formation	
9.	15	Case Studies	
10.	16-18	Principles of strategies	
11.	19	Scalability	
12.	20	Assessing current scenario	Lectures/activites/ special talks
13.	21	Framing opportunities	
14.	22	Enterprise innovation	
15.	23	Preparing quests	
16.	24	competency mapping	
17.	25	team charters	
18.	26	articulation	
19.	27	Data mining,	
20.	28	soft data conversion,	
21.	29	Creating human archetypes	
22.	30	experience mapping,	
23.	31	creating activity systems	

24.	31-40	Special lectures and group task discussions		

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Assessment	Week/Date	Mode	% Weightage
1	Need analysis – empathy	4	Assignment	10%
2	Outcome formation	8	Assignment	10%
3	Strategy formation	10	Group Task	10%
4	Framing Team Charters	12	Group Task	20%
5	Innovative Implementation	14	Group Task	20%
6	Final Assessment *	16	Summative	30%

*mandatory; refer to guidelines on page 4

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

Through centralized MIS

COURSE POLICY (including compensation assessment to be specified)

The practical content of the course need to be borne in mind and hence students are expected to participate enthusiastically in all discussions and activities.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

➤ At least 75% attendance in each course is mandatory.

➤ A maximum of 10% shall be allowed under On Duty (OD) category.

➤ Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

➤ Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.

➤ Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.

➤ The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and

award the punishment if the student is found guilty. The report shall be submitted to the Academic office.

➢ The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION, IF ANY

FOR APPROVAL

Course Faculty _____   CC- Chairperson _____   HOD _____

Guidelines

a) The number of assessments for any theory course shall range from 4 to 6.

b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.

c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.

d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	2017	2016	2015	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.

f) Absolute grading policy shall be incorporated if the number of students per course is less than 10.

g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.