GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)
Semester-III

Course Title: Seminar
(Course Code: 4331705)

Diploma Program in which this course is offered	Semester in which offered
Instrumentation & Control	Third

1. RATIONALE

It is essential for a person to express and present his/her views in life despite of whatever work he does. Communication and Soft Skills are necessities for overall growth of any person. Moreover Research and Reading practice need to be involved in diploma engineering students. These qualities can be inculcated in student when they need to gather the information for the topic of seminar and present the seminar among group. Hence, the course of Seminar has been involved that will help to flourish comprehensive knowledge of student in any discipline and enhance his/her research skills, communication skills, management skills, soft skills and Project Management.

2. COMPETENCIES

The purpose of this course is to help the student to attain the following competency through various teaching learning experiences:
- **Acquire research skills and presentation skills.**

3. COURSE OUTCOMES

The practical exercises, the underpinning knowledge and the relevant soft skills associated with this competency are to be developed in the student to display the following COs:
1.) **Explore a topic of interest.**
2.) **Research a topic and gather information.**
3.) **Management of gathered information and time.**
4.) **Develop a presentation using a software.**
5.) **Deliver Presentation using effective communication Skills.**

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P/2)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	CA	ESE	CA	ESE	
0	0	2	1	-	-	50	50	100

Legends: L-Lecture; **T** – Tutorial/Teacher Guided Theory Practice; **P** - Practical; **C** – Credit, **CA** - Continuous Assessment; **ESE** - End Semester Examination.

5. SUGGESTED PRACTICAL EXERCISES

The following practical outcomes (PrOs) that are the sub-components of the COs. *Some of the **PrOs** marked '*' are compulsory, as they are crucial for that particular CO at the 'Precision Level' of Dave's Taxonomy related to 'Psychomotor Domain'*.

S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
1	Introduction of the course.	1	2
2	Explore your interest and the need of the society.	1	2
3	Explore the need of industry.	1	2
4	Prepare an abstract and submit it.	1	2
5	Research on the topic selected by you.	2	6
6	Discuss your topic among your peers (peer to peer discussion) and accept the suggestions.	3	2
7	Organize the gathered information.	3	2
8	Develop PowerPoint presentation.	4	6
9	Effective Communication practices.	5	2
10	Self-Rehearsals and improvements.	5	2
11	Submission and Final Presentation	5	-
	Total		**30**

Note

i. *More **Practical Exercises** can be designed and offered by the respective course teacher to develop the industry relevant skills/outcomes to match the COs. The above table is only a suggestive list.*

ii. *The following are some **sample** 'Process' and 'Product' related skills (more may be added/deleted depending on the course) that occur in the above listed **Practical Exercises** of this course required which are embedded in the COs and ultimately the competency..*

S. No.	Sample Performance Indicators for the PrOs	Weightage in %
1	**Scenario where student can show his/her decision making skill as per his interest in exploring one topic.**	15
2	**Scenario where student can apply his/her Research Skills in gathering the information regarding that topic.**	20
3	**Situation where student can show his/her Time Management skills and creativity in arranging and organizing the gathered information.**	20
4	**Setup where student can show his/her innovative skills related to software for developing the presentation.(MS Powerpoint)**	15

S. No.	Sample Performance Indicators for the PrOs	Weightage in %
5	**Scenario where student can show his/her Presentation Skills**	30
	Total	**100**

6. MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

This major equipment with broad specifications for the PrOs is a guide to procure them by the administrators to usher in uniformity of practicals in all institutions across the state.

S. No.	Equipment Name	PrO. No.
1	Projector	11
2	Computer	1 to 10

7. AFFECTIVE DOMAIN OUTCOMES

The following *sample* Affective Domain Outcomes (ADOs) are embedded in many of the above mentioned COs and PrOs. More could be added to fulfil the development of this competency.

   a) Recognize his/her interest.
   b) Aim for a goal.
   c) Ambition to achieve that goal.
   d) Crave for the information.
   e) Support his/her argument.
   f) Dream the future after achievement of the set goal.
   g) Dedication to solve the arising problems.
   h) Retentivity inspite of failures.
   i) Intention to help the society.
   j) Aspiration to aid the environment.

8. UNDERPINNING THEORY

Not Applicable

Note: The UOs need to be formulated at the 'Application Level' and above of Revised Bloom's Taxonomy' to accelerate the attainment of the COs and the competency.

9. SUGGESTED SPECIFICATION TABLE FOR SEMINAR FINAL ESE (VIVA) DESIGN

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A	Total Marks
I	**Leadership Excellence**	6	4	0	8	12
II	**Decision Making**	6	5	0	3	8
III	**Time Management**	6	5	0	3	8
IV	**Teamwork and Project Management**	6	3	2	3	8
V	**Presentation Skills**	8	0	5	9	14

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A	Total Marks
Total		**32**	**17**	**7**	**26**	**50**

Legends: R=Remember, U=Understand, A=Apply and above (Revised Bloom's taxonomy)
Note: *This specification table provides general guidelines to assist student for their learning and to teachers to teach and question paper designers/setters to formulate test items/questions assess the attainment of the UOs. The actual distribution of marks at different taxonomy levels (of R, U and A) in the question paper may vary slightly from above table.*

10.   SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, following are the suggested student-related **co-curricular** activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should conduct following activities in group and prepare reports of about 5 pages for each activity, also collect/record physical evidences for their (student's) portfolio which will be useful for their placement interviews:
   a) Create a video about describing his/her self at least 5 minutes long
   b) Prepare a Poster for an college event
   c) Make a Digital Marketing campaign for a local shop nearby.
   d) Help any three people by any means and urge others to help by creating a social media post .
   e) Case study on an incident.
   f) Group Discussion on current topic.
   g) Debate on current issues.
   h) Group Act to address current environmental problem.
   i) Prepare a Poster to address a Global issue.
   j) Competition to prepare best slogan for a movement to solve the environmental issue.

11.   SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

Following Sample strategies teacher can use to accelerate the attainment of the various outcomes in this course:
   a) Make an individual student speak on stage infront of class on any one topic he likes.
   b) Find powerpoint hacks and ideas and demonstrate them to the class.
   c) Guide Student to read books on soft skills and make them prepare a summary report / create a summary audio / video of that book.
   d) Guide students to Prepare a small note on special habits of great leaders of the world.
   e) Guide students to make presentation on how to address issues on environment and sustainability
   f) Guide students to make presentation on any Indian business case study.

12.   SUGGESTED MICRO-PROJECTS

   One group based micro-project is planned to be undertaken by a students.
   A suggestive list of micro-projects is given here. This has to match the competency

and the COs. Similar micro-projects could be added by the concerned course teacher:

a) Create an **Advertisement** using Special effects in Power Point
b) Design an ID card in Power Point
c) Create a College event Poster using Power Point
d) Create a Certificate of any event using Power Point
e) Create a Presentation for any unit of Seminar Subject
f) Create a Loop video in Power Point
g) Create a Presentation on Renewable Energy with any software without Power Point
h) Present a ppt addressing current environmental issues and its probable solution.

13.   SUGGESTED LEARNING RESOURCES (MUST READ ONES!!!)

S. No.	Title of Book	Author	Publication with place, year and ISBN
1	Atomic Habits: An Easy & Proven Way to Build Good Habits & Break Bad Ones	James Clear	Publisher ： Avery; Illustrated edition (October 16, 2018) ISBN-10 ： 0735211299 ISBN-13 ： 978-0735211292
https://archive.org/details/atomic-habits-tiny-changes-remarkable-results-by-james-clear-z-lib.org			
2	Practicing Mindfulness An Introduction to Meditation	Mark W. Muesse, Ph.D.	The Teaching Company, 2011
https://archive.org/details/PracticingMindfulnessAnIntroductionToMeditation/page/n1/mode/2up?view=theater			
3	Digital Minimalism	Cal Newport	ISBN: 9781455509126
https://archive.org/details/cal-newport-digital-minimalism-choosing-a-focused-life-in-a-noisy-world-portfolio-2019/page/n87/mode/2up			
4	Hyperfocus: How to Manage Your Attention in a World of Distraction	Chris Bailey	Publisher ： Penguin Books; Reprint edition (August 27, 2019) ISBN-10 ： 0525522255
https://archive.org/details/Hyperfocus			
5	The 5AM Club: Own Your Morning. Elevate Your Life	Robin Sharma	©2018 Robin Sharma (P)2018 HarperCollins Publishers Ltd
https://archive.org/details/the-5am-club/page/n57/mode/2up			
6	Start With Why	Simon Sinek	Publisher ： Penguin UK; Latest Edition (6 October 2011) ISBN-10 ： 9780241958223
https://archive.org/details/simon-sinek-start-with-why_201709			
7	THE 17 INDISPUTABLE LAWS OF TEAMWORK	JOHN C. MAXWELL	NELSON IMPACT: Since 1798 ISBN 0 7852-6576-7

S. No.	Title of Book	Author	Publication with place, year and ISBN
	https://www.pdfdrive.com/the-17-indisputable-laws-of-teamwork-d4346404.html		

14.   SOFTWARE/LEARNING WEBSITES

- **Leadership Excellence**   **https://www.youtube.com/watch?v=7RigpEbuTYQ**
- **Effective Decision Making**   **https://www.youtube.com/watch?v=-EgOmMfYxk4**
- **Effective Time Management**   **https://www.youtube.com/watch?v=xhJC3AYwrzA**
- **Effective Teamwork**   **https://www.youtube.com/watch?v=Vtd7ki1KdRo**
- **Effective Project Management** **https://www.youtube.com/watch?v=oTrkgn66Jwo**
- **Career Development Guidance**   **https://www.youtube.com/watch?v=RDBOpLCHqDc**

15.   PO-COMPETENCY-CO MAPPING

Semester III	Seminar (Course Code: …………………)						
	POs						
Competency & Course Outcomes	PO 1 Basic & Discipline specific knowledge	PO 2 Problem Analysis	PO 3 Design/ development of solutions	PO 4 Engineering Tools, Experimentation &Testing	PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Management	PO 7 Life-long learning
Competency *"Learn Soft skills like Leadership, Decision Making, Time Management , Teamwork, Project Management and Presentation Skills."*							
Make use of Leadership Excellence	-	3	2	-	2	3	2
Discover Methods for Effective Decision Making	1	2	2	-	-	1	2
Show Effective Time Management	1	2	2	-	-	1	2
Show Effective Teamwork and Project Management	1	1	1	-	2	3	2
Show Effective Presentation Skills	2	1	1	2	-	2	2

Legend: '**3**' for high, '**2**' for medium, **'1'** for low or **'-'** for the relevant correlation of each competency, CO, with PO/ PSO

16. COURSE CURRICULUM DEVELOPMENT COMMITTEE

<u>Member – Board of Studies (GTU), Electrical and Allied branches</u>

Prof. S. Z. Shyara, IC Engineering, AVPTI, Rajkot

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