

## ACADEMIC YEAR: 2020-2021

### Procedure for the attainment of Course Outcomes and Program Outcomes

#### Attainment of Course Outcomes:

- Step 1: Calculate the average attainment of each course outcome.
- Step 2: Calculate the average percentage attainment of each course outcome.

#### Measurement of Course attainment levels for University Examinations:

- Step 1: Calculate the average of university marks.
- Step 2: Calculate the average percentage of university marks.

#### Overall Direct Assessment including Internal and University Examinations:

- ❖ Weightage to University Examinations: 70%
- ❖ Weightage to Internal Examinations: 30%

#### Overall Attainment including Direct and Indirect Survey:

- ❖ Weightage to Direct Survey: 80%
- ❖ Weightage to Indirect Survey(feedback): 20%

#### Measurement of Course attainment levels:

- Attainment Level 1: If the percentage of course outcome attainment is in between 40% and 55% (exclusive) in internal examinations.
- Attainment Level 2: If the percentage of course outcome attainment is in between 55% and 70 % (exclusive) in internal examinations.
- Attainment Level 3: If the percentage of course outcome attainment is greater than or equal to 70% in internal examinations.

  
PRINCIPAL  
G.Pullaiah College of Engg & Tech.  
Nandikotkur Road, VENKAYAPALLI  
KURNOOL-518 452 (A.P)

## **G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY** (Autonomous)

Course Name: **SIGNALS AND SYSTEMS**

	Course Outcomes	POs	Cognitive Level	Class Sessions
	At the end of the course, the student will be able to			
CO 1	Distinguish between different signals and systems in continuous and discrete time domains.	PO1,PO2,PO3,PO11,PO12,PSO1 & PSO2	APPLY	12
CO 2	Determine the transform of different signals in continuous and discrete time domains.	PO1,PO2,PO3,PO11,PO12&PSO 2	APPLY	12
CO 3	Compute different operations on different signals and systems in continuous and discrete time domains.	PO1,PO2,PO3,PO11,PO12&PSO 2	APPLY	10
CO 4	Describe the properties of different transforms in continuous and discrete time domains.	PO1,PO2,PO3,PO11,PO12&PSO 2	UNDERSTAND	10

*(Signature)*  
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CO 5	Establish the relationship between different Fourier series representations, different transforms and different parameters.	PO1,PO2,PO3,PO11,PO12&PSO 2	APPLY	10
CO 6	Solve the differential and difference equations by using an appropriate transform.	PO1,PO2,PO3,PO11,PO12&PSO 2	APPLY	10
Total Sessions				64

- If Class Sessions are >40% of Total Class Sessions then PO is addressed at a level-3
- If Class Sessions are 25-40% of Total Class Sessions then PO is addressed at a level-2
- If Class Sessions are 5-25% of Total Class Sessions then PO is addressed at a level-1
- If Class Sessions are <5% of Total Class Sessions then PO is treated as Not Addressed

64 of 64(100%) sessions are devoted to PO1	Mapping strength is 3
64 of 64 (100%) sessions are devoted to PO2	Mapping strength is 3
64 of 64 (100%) sessions are devoted to PO3	Mapping strength is 3
64 of 64 (100%) sessions are devoted to PO11	Mapping strength is 3
64 of 64 (100%) sessions are devoted to PO12	Mapping strength is 3
12 of 64 (18.75%) sessions are devoted to PSO1	Mapping strength is 1
64 of 64 (100%) sessions are devoted to PSO2	Mapping strength is 3

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Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited by NBA (CSE, EEE & ECE) & Affiliated to JNTUA  
 Campus: Nandikotkur Road, Venkayapalli (V), Kurnool-518 452, Andhra Pradesh  
 Landline : 08518 285011/88 Fax:08518 285033, Mobile: 9246922869  
 Email: principal@gpcet.ac.in, Website: www.gpcet.ac.in

*G. Princy*  
 PRINCIPAL  
 G. Pullaiah College of Engg & Tech.  
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**CO-PO Mapping matrix of Signals and Systems:**

	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PO 11	PO 12	PS O1	PS O2
C20 4.1	3	3	3								3	3	1	3
C20 4.2	3	3	3								3	3		3
C20 4.3	3	3	3								3	3		3
C20 4.4	3	3	3								3	3		3
C20 4.5	3	3	3								3	3		3
C20 4.6	3	3	3								3	3		3
C20 4	3	3	3								3	3	1	3

*G. Pullaiah*  
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