

Faculty of Engineering and Technology (Exclusively for Women)

Department of Electronics & Communication Engineering

Title of the Event	One Day Quality Enrichment and Training Program on “Introduction to Speech processing and Project Avenue”
Date of Activity held	12/05/2024
Time of Activity	11:00 AM to 5:00 PM
Type of Activity (Cultural/ Co-curricular/Curricular)	Extra Curricular Activity
Resource Person	Dr. Shashidhar G. Koolagudi
Professional details of Resource Person	Professor, NIT, Surthkal
Program/Course/ Class	UG Students
Number of Staff attended	10
Activity Incharge	Dr.Anuradha Patil, Prof. Shruti V H
Objective of the activity	• Create awareness about the real-world applications and emerging trends in speech processing and related technologies. • Encourage students to explore innovative project ideas by aligning speech processing concepts with current technological developments and societal needs.
Description of Activity	Speech Processing involves studying how computers can process and understand human speech. This field encompasses various aspects such as speech recognition (converting spoken words into text), speech synthesis (generating human-like speech from text), speaker recognition (identifying who is speaking), and more. When embarking on a project in Speech Processing: • Speech Recognition • Speech Synthesis. • Speaker Recognition • Speech Enhancement • Speech to Speech Translation • Applications in Healthcare • Natural Language Understanding When choosing a project avenue, considering interests, available resources (such as datasets and computing power), and the specific problem or application students can find most intriguing. Speech Processing is a rapidly evolving field with numerous opportunities for innovation and impact across various industries.
Course Outcome	Identify the basic components of a speech processing system and Develop the ability to formulate and propose mini or major project ideas based on speech processing concepts, aligning with emerging technology trends and societal needs.
Outcome of the Activity	• Participants gained a clear understanding of the fundamental concepts and components of speech processing systems, including signal acquisition, preprocessing, feature extraction, and recognition techniques. • Students were exposed to current trends and real-world applications in the field of speech and audio signal processing. • The session enabled students to identify feasible project areas and develop innovative project ideas based on speech processing, aligned with emerging technologies and societal challenges. • The program fostered analytical thinking and problem-solving skills, encouraging students to explore interdisciplinary approaches in their project planning.

Activity Photographs





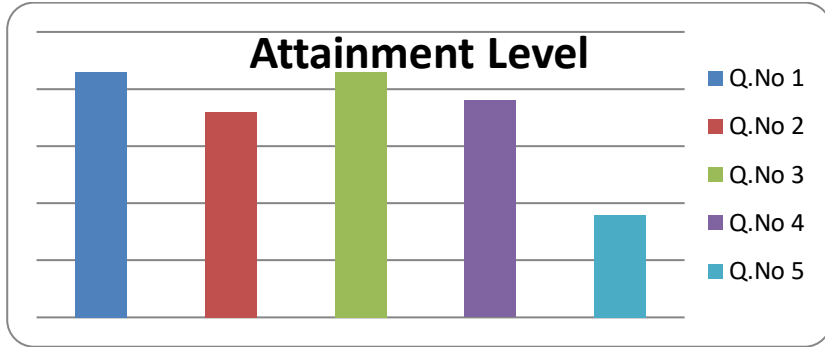

CO's, PO's and PSO's Correlation

CO's No.	CO Defined	Relevance to PO's and PSO'S
CO	Identify the basic components of a speech processing system and Develop the ability to formulate and propose mini or major project ideas based on speech processing concepts, aligning with emerging technology trends and societal needs.	PO1, PO2, PO3, PO6, PO10, PO11, PSO1

Title of the Event: One Day Quality Enrichment and Training Program on “Introduction to Speech processing and Project Avenue”

Number of Students: 45

Q. No	Strongly Agree (3)		Moderately Agree (2)		Agree(1)		Total Score	%Attainment = (Total score/Total no. Students attended)	Average percentage Attainment	Attainment levels	Mapped POs	Mapped PSOs
1.	32	96	09	14	04	04	114	2.53	81.6	Medium = 2	1,2,3,6,10 ,11	1
2.	30	90	06	12	09	09	111	2.46				
3.	31	93	07	14	07	07	114	2.53				
4.	30	90	07	14	08	08	112	2.48				
5.	29	87	09	18	07	07	103	2.28				
Average								2.45				



Impact Analysis: From the above table, “One Day Quality Enrichment and Training Program on “Introduction to Speech processing and Project Avenue” moderately attained to level 2. Against mapped PO1, PO2, PO3, PO6, PO10, PO11 and PSO1. Note: High=3, Moderate=2 and Low=1

Coordinator

Chairperson

Dean