



MARATHA VIDYA PRASARAK SAMAJ'S

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College of Engineering, Nashik**



Permanently Affiliated to Savitribai Phule Pune University Vide Letter No. : CA/1542 & Approved by AICTE New Delhi - Vide Letter No. : 740-89-32 (E) ET/98 AISHE Code - C-41622

## Department of Instrumentation and Control

Innovative Teaching Method: Role Play 04.11.2022

<b>Class:</b>	<b>TE ( Instrumentation &amp; Control Engineering)</b>
<b>Name of Method :</b>	<b>Role Play</b>
Learning Objective : 1. Students will understand the complete Working of Heart 2. Students will understand the Heart Conduction system	
Outcomes: On completion students were able to 1. Demonstrate the working of Heart 2. Demonstrate the Generation of ECG Waveforms.	
<b>Description:</b> Role play, including acting out scenarios to problem solve, story making through dramatic play and practice in coping with real life situations will support student's social-emotional growth and development. Role play helps to develop the skills to handle problematic social interactions. In the role play, each student was assigned the application (with role of each component) was discussed with the students. Each student was assigned particular role of the act. Students presented their role with its function, structure, role and its importance.  Group (Total 08 Students) was assigned the Role Play on "Demonstration of working of Heart, Heart Conduction system, Generation of ECG Waveform, Role of SA Node, Role of AV Node, Role of Bundle of HIS and Role of Purkinjee Fibers.  Complete working of working of Heart, Heart Conduction system, Generation of ECG Waveform, Role of SA Node, Role of AV Node, Role of Bundle of HIS and Role of Purkinjee Fibers. was carried out through Role play . Then Students were assigned the role of RA (Right Atrium), LA (Left Atrium), RV (Right Ventricle) LV (Left Ventricle), SA (Sinoatrial Node), AV (Atrio ventricular node), BIS (Bundle of HIS) Purkinje fibers. All students performed well of above and executed the generation of ECG (Electro cardiogram) All students executed very well the Role Play. This is how every student plays his/her role.	
<b>Impact of Innovative Method:</b> This activity helps students to enhance communication skills, interpersonal skills, understanding the concept, self-confidence, team work, self-learning, analytical skills & participating in front of audience.	

Rubrics used:

Skills/Criterion/ Category	4 Points	3 Points	2 Points	1 Points
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Objective of the Role-play	Objective of the role-play was very clearly understood.	Objective of the role-play was clearly understood.	Objective of the role-play was understood.	Objective of the role-play was not clearly understood.
Content delivery by each participant.	Participant delivered all the contents as per role.	Participant delivered most of the contents as per role.	Participant delivered some of the contents as per role.	Participant delivered none of the contents as per role.
Props (creativity while playing role)	Participant used several props that accurately fit the period, shown considerable work/creativity and made the role-play best.	Participant used 1-2 props that accurately fit the period, and made the role-play better.	Participant used 1-2 props which made the role-play good.	Participant used No props OR the props chosen distracted from the role-play.
Overall of the Impact	All information appeared to be accurate and in chronological order.	Almost all information appeared to be accurate and in chronological order.	Most of the information was accurate and in chronological order.	Very little of the information was accurate and/or in chronological order.

Roll no.	Name of student	Objective of the Role-play (5)	Content delivery by each participant. (5)	Props (5)	Overall of the Impact (5)	Total (20)
1	Vaishnavi Khandre	4	4	4	3	15
2	Shubham Patil	4	4	4	3	15
3	Anuja Nalkar	4	4	4	3	15
4	Komal Dinde	4	4	3	4	15
5	Jayesh Ahirrao	4	4	4	5	17
6	Attharva Aher	4	4	4	5	17
7	Sakshi Thakare	4	4	4	5	17
8	Abishek Bankers	4	4	4	4	16



Group: Demonstration of Working of Heart



Group: Demonstration of Conduction of Heart

Mr. S. R. Pandit  
Event coordinator

Dr. B.J. Parvat  
Head, Instru & Control