

**Institute level scrutiny committee  
(ISC)**

**27/09/2025, Saturday, 11.00 am**

**[Online]**



**SSIP 2.0**

***Birla Vishvakarma Mahavidyalaya***

***(An Autonomous Institution)***

***NAAC Accredited "A" grade***

***Engineering College, Vallabh Vidyanagar***

***Phone – (02692) 230104***

***E mail – principal@bvmengineering.ac.in***

***Web Site – www.bvmengineering.ac.in***

Date: 27/09/2025

Starting Time: 11:00 AM to 12:30 PM

Duration: 2.5 Hour

Number of Proposal: 06

ISC were organised as per SSIP 2.0 guidelines under the SSIP cell BVM. Dr. Ronak Vashi, Institute SSIP Coordinator, welcomed the esteemed panel of these sessions and informed the board with general instructions about the timings, marking system, funding scheme, etc.

### **Following members were present in the Institute Level SSIP Committee presentation.**

- Dr. Vinay J. Patel, Principal, Chairperson of SSIP Committee
- Dr. Ronak R. Vashi, Institute SSIP Coordinator
- Dr. Bhargav C. Goradiya, Nodal Officer
- Mr. Kirti Patel, IP Expert from (IP Calculus, Surat)
- Prof. (Dr.) Narendra M. Patel (Academic Expert)

Google Meet joining info

Video call link: <https://meet.google.com/xcs-hfvz-whh>

Or dial: (US) +1 304-916-7036 PIN: 929 067 961#

### **The session had covered the following points:**

- As soon as the session of IPR proposal from EL/EC Dept., Mechanical/Production Dept. and CP Dept. began, participating teams joined the meeting one after the other.
- Firstly members of the participating team presented their project as per prescribed format and
- After that, expert on board asked questions to the team.
- And lastly, the panel discussed the feasibility of the proposal
- 06 teams from above mentioned branches proposed their project for Patent drafting and further help from SSIP 2.0.
- The host thanked the panel for sparing their time and giving valuable inputs in this session.

Thanking everyone, Dr. Ronak Vashi, Institute SSIP Coordinator, concluded the session.

Date: 27/09/2025

**IPR Details:**

NO.	Student Leader's Name	Time	Student Leader's ID Number	Branch Name of Student Leader	Student Leader's working Mobile Number	All Team Members' Name	Faculty Mentor's Name	Title of Project
1	Smit Kareliya	11:00 AM	21CP011	Computer	9081161833	NA	Dr. Narendra M. Patel	Diamond Quality Assessor
2	Tanisha Mistry	11:15 AM	21EL019	Electronics	9313741478	Jinal Patel	Prof.Parul Panchal	Fault diagnosis system for industrial machines
3	Dev kansara	11:30 AM	21PE011	Production	8780149959	Rushi patel	Dr. Hardik beravala	Design of trolley assembly used in electronic overhead travelling (EOT) crane 10 to 100 tone using parametric modelling
4	Nikunj Gurudatt Suthar	11:45 AM	22EL022	Electronics	9173696542	Bhakti Patel, Rishi Oza, Bhavya jadav	Prof. (Dr.) Kaushika D. PATEL	BALANCE BUDDY
5	JIGAR KUMAR	12:00 PM	22EL066	Electronics	8980581401	Dhruvi Usdad	Ms. Parul H Panchal	AGRICALL Pump Controller
6	Akashay	12:15		Mechanicakl			Mehfuza Holia	Autonomous underwater



meet.google.com/xcs-hfvz-whh

Dhruvil Usdad (Presenting)

### SSIP PRESENTATION

GUIDE NAME - Parul Panchal  
Student Name - Dhruvil usdad (22E1065)  
Jigar Kumar (22E1066)

**AGRICULTURE WATER PUMP CONTROLLER USING MOBILE PHONE RING**

**Abstract** Agriculture is a crucial sector that requires efficient water management systems to optimize irrigation processes. This project presents an automated water pump controller using a GSM module that allows farmers to turn their water pump ON/OFF using a simple phone call. By utilizing a relay module and an Arduino microcontroller, this system provides an affordable and easy-to-use remote irrigation control solution. The ability to remotely control water usage reduces labor costs and ensures optimal water distribution, enhancing agricultural productivity and sustainability.

**1. Introduction** In many rural areas, manual water pump operation is inefficient and time-consuming. Traditional methods require a farmer to physically switch the pump on and off, leading to water wastage, excessive labor, and difficulties in accessing pumps located in remote fields. This project aims to develop a mobile phone-controlled water pump system using a GSM module, where the

Kirtikumhar Patel

5 others

BVM SSIP Cell

People

Mute all Add people

Search for people

IN THE MEETING

Contributors 8

- BVM SSIP Cell (You) Meeting host
- Dhruvil Usdad
- Dhruvil Usdad Presentation

12:03 PM | BVM SSIP Cell || ISC || IPR

meet.google.com/xcs-hfvz-whh

AKSHAY (Presenting)

### CAD Design

Front View Side View  
Top View Isometric View

Akshay Patel

4 others

BVM SSIP Cell

People

Mute all Add people

Search for people

IN THE MEETING

Contributors 7

- BVM SSIP Cell (You) Meeting host
- AKSHAY
- AKSHAY Presentation

12:18 PM | BVM SSIP Cell || ISC || IPR

meet.google.com/xcs-hfvz-whh

Kirtikumhar Patel

Ronak Vashi

Dr. Bhargav Goradiya

BVM SSIP Cell

People

Mute all Add people

Search for people

IN THE MEETING

Contributors 4

- BVM SSIP Cell (You) Meeting host
- Dr. Bhargav Goradiya
- Kirtikumhar Patel

12:25 PM | BVM SSIP Cell || ISC || IPR