



# Swami Keshvanand Institute of Technology, Management & Gramothan

Approved by AICTE, Ministry of HRD, Government of India  
Recognized by UGC under Section 2(f) of the UGC Act, 1956  
Affiliated to Rajasthan Technical University, Kota

## Sample Details Incubation Cell

🏠: RAMNAGARIA (JAGATPURA), JAIPUR-302017 (RAJASTHAN), INDIA  
☎: +91-141-3500300, 2752165, 2759609 | 📠 : 0141-2759555  
✉: info@skit.ac.in | 🌐: www.skit.ac.in



**Office Note for Establishment of Incubation Cell**

Date: 14/06/2016

There is a requirement of Incubation cell by AICTE, NBA and NAAC in every technical institute. So, our institute also has to establish an incubation cell. Therefore, our institute is going to establish a Techno SKIT Incubation Centre named as "SRIJAN" with effective from July, 2016 with following vision, mission and objectives: -

**1. Vision & Mission of Techno SKIT Incubation Centre (SRIJAN)**

Techno SKIT Incubation Centre (SRIJAN) was started in July, 2016 with following vision and mission:

- **Vision:** To foster a culture of innovation, problem solving and research for the betterment of the society and the nation
- **Mission:** To promote interest and research in path breaking tech driven ideas leading to entrepreneurship, while hand holding young start-ups and accelerating their growth through vital inputs, supportable mentorship and industrial connect.

**2. Objectives of Incubation Centre**

- Encourage students to develop innovative projects/products to become job givers instead of job seekers through facilitation in opening start ups
- Take up development of industry sponsored projects.
- Encourage Faculty /students teams to conduct seminars/trainings on state of art technology platforms otherwise not covered in syllabus.
- Collaborate with semiconductor companies like TI/FREE SCALE/ST/MICROCHIP to undertake embedded learning through embedded club activity.
- Encourage amongst faculty/students C.F.T Culture for project development.

Other points like major roles, major Services, additional programs for promoting incubation activities, setting up process of START-UP in SKIT, project approval process are as per attached annexure-(i)

*S. L. Surana*  
Prof. S. L. Surana  
(Director Academics)

*S. N. Vijayvergiya*  
14/06/2016  
S. N. Vijayvergiya  
(Dean R & D)



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*S. L. Surana*  
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*S. N. Vijayvergiya*  
14/06/2016  
S. N. Vijayvergiya  
(Dean R & D)

## Annexure-(i)

### 1. Major Roles of Incubation centre

1. Infrastructure support:
  - a. **A strong intellectual infrastructure:** A dedicated team from all departments for technical mentoring of the projects, laboratories.
  - b. **Physical Infrastructure:** internet, computers, dedicated area for sitting & working with working till 9 PM for pass out student batch and after 2:30 PM daily pursuing B. Tech students.
2. Entrepreneurs & entrepreneurs support mechanism: Create & working with entrepreneurial culture.
3. Support for commercialization: Regular mentoring of the teams for different commercial aspects, legal liabilities, government policies.
4. **Funding:** Generate funds for the teams.

### 2. Major Services of Incubation centre

Following is the List of few services supports from incubation centre.

- Mentorships from Industry Professionals.
- Connect with leading entrepreneurs.
- 12-24 weeks of co-working space in campus.
- Office resources.
- Prototyping & Product Development.
- Connect with Funding Resources.
- Student Semester Projects.
- Intellectual Property and related advice.
- Financial & Legal Consultants.
- Business advice from our Program Partners.

### 3. Additional Programs for promoting Incubation activities

- ✓ Knowledge infrastructure support.
- ✓ Student growth & better visibility programs.
- ✓ Faculty development program to increase opportunity & participation.



- ✓ Better visibility of college among peers.
- ✓ Building reusable knowledge digital database.
- ✓ Alumni connectivity.
- ✓ Better placements.

#### 4. Setting up process of START-UP in SKIT

1. Project starting till one year after graduation.
2. Monthly Progress review by development board.
3. The prototype model will be funded by the team itself.
4. \*SKIT will fund for its engineered model subject to availability of funds.
5. \*Trial production (before Mass production) by start-up with 50:50 equity by students & SKIT subject to availability of funds.
6. IPR & patent rights by SKIT.
7. Company formation / expense be borne by students & SKIT.
8. Patent filing expenses to be borne by SKIT subject to availability of funds.
9. Test Facility: CAPEX to be created by SKIT.

#### 5. Project Approval Process: Under incubation centre

Marks distribution (MM 100) for approving any new project/idea is shown in following table:

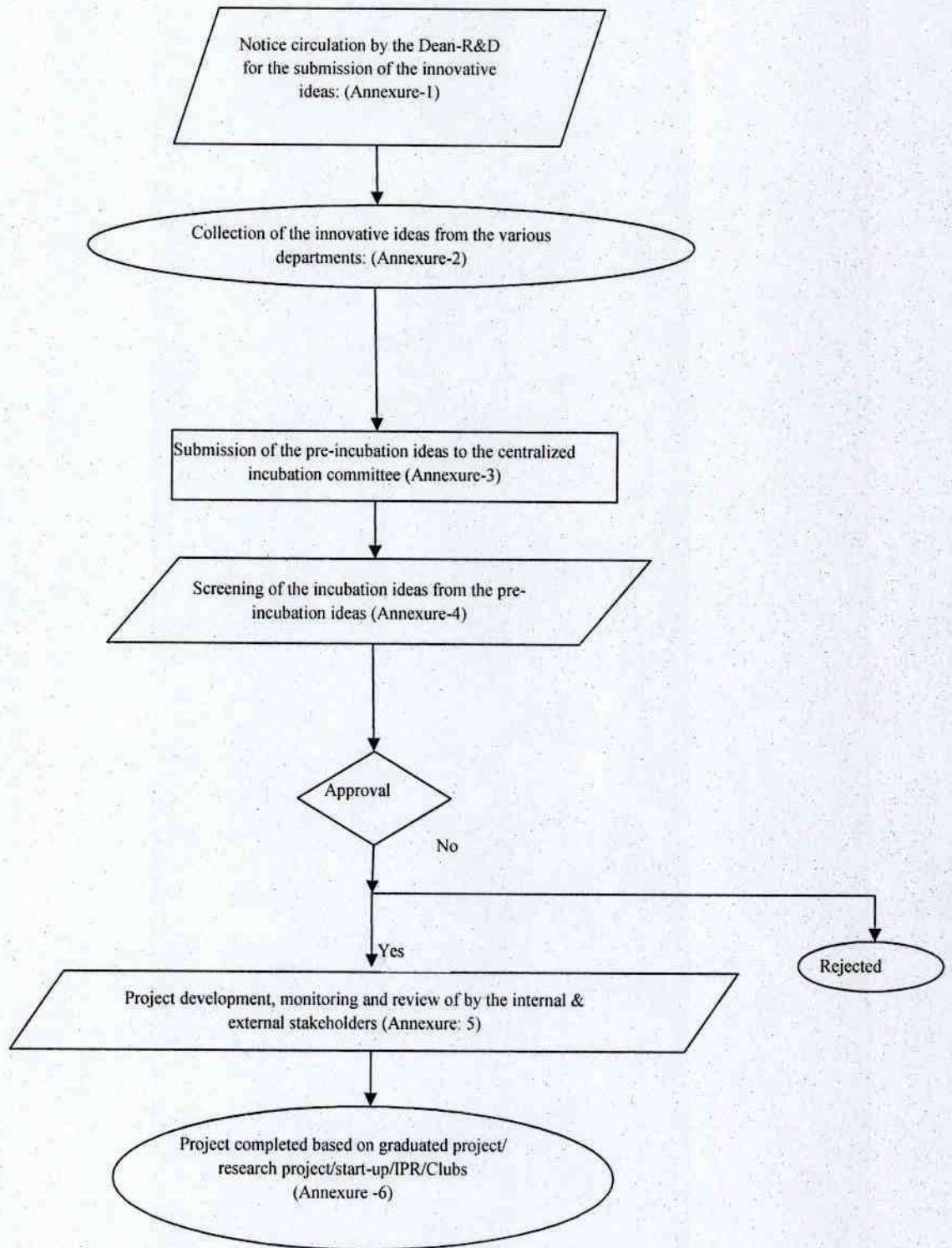
Sr. No.	Subject area for marks allocation	Marks Given by	Maximum marks
1	Project approval	Dean R&D	25
2	Team appraisal/ VC funding	Adviser	25
3	Project Funding	Director academics	25
4	Market Visibility	Principal	25

The entry of the idea must have student team with faculty mentor.

Project approval process is further explained in following flow chart: -



**Incubation Project Approval Process Flow Chart**





SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)

Notice

SKIT/Incubation/2020/01

Date: 22<sup>th</sup> June 2020

**Subject: Notice for nominating of faculty members in Incubation Centre**

As per the predefined regular practice, HODs are requested to nominate the name of faculty members to coordinate with incubation centre for academic session 2020-2021. Nominated faculty members will have following major roles and responsibilities:

- Encourage students to develop innovative projects ideas.
- To coordinate in-between the incubation cell and the department.
- Encourage Faculty/students to conduct seminars/trainings related to Innovations, IPR, Entrepreneurship, Start-ups etc.

Last date for completing this task is 29/06/2018.

S. N. Vijayvergiya  
(Dean, R & D)

CC:

1. Director (Academics)
2. Principal
- ~~3. All department notice boards~~
4. All HODs

*A*  
**Project Report**  
*On*  
**“Automatic Water Supply Distribution and Monitoring in Locality using IoT”**  
*Submitted in partial fulfillment for the award of degree of*  
**Bachelor of Technology**  
*in*  
**Department of Electronics & Communication Engineering**



**2019-2020**

**Project Guide**

Mr. Pallav Rawal  
Assistant Professor,  
(Electronics and  
Communication Engineering)  
SKIT M& G, Jaipur

**Submitted By**

Aditi Sharma(16ESKEC005)  
Anmol Bajaj(16ESKEC014)  
Anshul Kothari(16ESKEC017)

**Department of Electronics and Communication Engineering**  
**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
**Rajasthan Technical University, Kota**



# CHAPTER 1

## INTRODUCTION

### 1. INTRODUCTION OF PROJECT

#### 1.1 Project title:

**Automatic Water supply distribution and monitoring in locality using IOT**

Guide Name: Mr. Pallav Rawal

#### 1.2 What will be the end product?

It would have two systems physically independent of each other but communicating through the internet via cloud service.

**System 1** - It would be a system packaged in a box having connectors for power supply (battery), providing users to enter the operational time details through a 4x4 keypad with an 16x2 lcd display facilitating interactive behaviour.

**System 2** - A system packaged in a box having connectors for power supply(battery), Gears will be attached to the valve which is to be driven, a DC motor to drive gear.

Thus, This project "Automatic Water Supply Distribution and Monitoring in a Locality using IOT", will be used as an exceptional setup that will reduce human efforts and human errors by automation. This automatic water supply system will focus on the scheduled functioning and will minimise water wastage at the time of distribution in colonies.

#### 1.3 Target specifications of the end product:

##### **Mechanical specifications of the end product:**

**System 1-** It is a setup with physical dimensions of 20 cm x 12 cm x 8cm with the microcontroller interfaced and connected with a Keypad, LCD and a Battery

**System 2-** It is a setup with physical dimensions of 3 ft x 1 ft x 2 ft (including valve dimension) the output received from the gearbox is torque - 30 Nm and the speed of gear at valve spindle is 8 RPM whereas the input to gearbox provided by the dc motor is 4 Nm and 60 RPM, in this setup we have used the Sluice valve (non-rising spindle gate valve) with a valve size of 4 inches.

##### **Electronic specifications of the end product:**

**System 1-** When it comes to electronic specification, we have used Arduino(ATMEGA328p) and NodeMCU(ESP8266), a battery of 9 V and 1 A, the current sensor of 1 A, the whole system is operated on 5 V (system 1) with NodeMCU(ESP8266) for the transfer of data from system 1 to system 2 and also to store the data on the cloud.

**System 2-** When it comes to electronic specification of system 2, we have used Arduino (ATMEGA328p), a battery of 12 V, DC motor 12 V, 25 W, 60 RPM. The data is uploaded on the server using Wi-Fi.

**Table 1. Material Specifications:**

S.No	Product	Min. Value	Max. Value
1	Arduino	-	5 V
2	Node MCU(ESP8266)	-	5 V
3	Keypad	-	5 V
4	LCD(16*2)	-	5 V
5	Current Sensor	-	5 V
6	DC Motor	4 Watt	25 Watt
7	Motor Driver	4 Watt	30 Watt

**1.4 Objective of the project:**

- Encourage the student to understand how to use technical knowledge and methods to provide innovative solutions and hence better services to customers.
- To provide the knowledge of designing the interfacing circuits, integrating sensors, Micro controller, actuators and IOT to successfully establish the tasks.
- To provide the knowledge about operation and principle behind Battery management Systems.
- To provide the knowledge of integration of electronics with mechanical systems.
- To provide knowledge of testing and troubleshooting methodologies for electronics interfacing circuits and physical arrangement.
- To provide the knowledge of software implementation(programming Embedded Systems).
- To learn time and hence project management and scheduling for timely operation and completion.
- Know the importance of simulators and learn various simulation environments.

**1.5 What will the student learn from the project?**

- Concept of power transmission using different mechanical arrangements like gear, belt-pulley, chain sprocket etc.
- Operating concept of Battery management Systems via battery monitoring using current sensor.
- Concepts of Arduino, NodeMCU - (ESP8266) and IOT, DC Motor, Current Sensor, lcd, keypad interfacing.
- Simulation and designing of embedded system circuits using softwares like Diptrace and Proteus and Circuit testing and debugging.
- The major core values that students will learn will be:
  - Working as a team member.
  - Project Management
  - Team Management.

**Table 2. Team details:**

S.NO	NAME	Phone Number	E-Mail
1(S1)	Anshul Kothari	9667551414	kotharianshul1998@gmail.com
2(S2)	Aditi Sharma	7340066438	adisha.sharma7@gmail.com
3(S3)	Anmol Bajaj	9929839111	anmolbajaj003@gmail.com

## 1.6 Literature and Market Survey:

### 1.6.1 Market Survey and Site Visit:

- We went for our site visit to New Light Colony, Bajaj Nagar, Jaipur, Rajasthan.
- A water utility company-Overhead water tank.
- We learned the basic structure of an Overhead Water Tank:
- Water Supply Quantity Measurement = Average Per person Demand\*Population
- There are many factors affecting the per capita demand like Size of the city, Presence of industries, Climatic Conditions, Pressure in distribution system, Cost of water, etc.
- Capacity of water tank-250000 lts.
- Height of water tank-12 m.

Hence, as a result to avoid these problems we have introduced "Automatic water supply distribution and monitoring in a locality using IOT"

<b>Consumption</b>	<b>Normal Range (lit/capacity/day)</b>	<b>Average (lit/capacity/day)</b>	<b>%</b>
<b>Domestic</b>	65-300	160	35
<b>Industrial</b>	45-450	135	30
<b>Fire Demands</b>	20-90	45	10
<b>Waste</b>	45-150	62	25

**Figure 1- Statistics of water supply in various sectors.**

## CHAPTER 2

### PROJECT DESCRIPTION

#### 2.1 Brief description of the project:

#### 2.2 Motivation for taking up this project:-

This project will be a Smart City Initiative as this project will be a step forward towards digital India and making water supply chain automatic. It will be used as an exceptional setup that will reduce human efforts and human errors by automation, this automatic water supply system will focus on the functioning schedule and will minimise water wastage at the time of distribution in colonies. This project will also help in the reduction of panic related to the timings of water and duration of it.

#### 2.3 Industry state of the art and needs: -

As per my knowledge, water supply distribution in locality and farms are manual. In this project we will try to replace manual operation by scheduled operation using Microcontroller and IoT; and store all the data on server cloud.

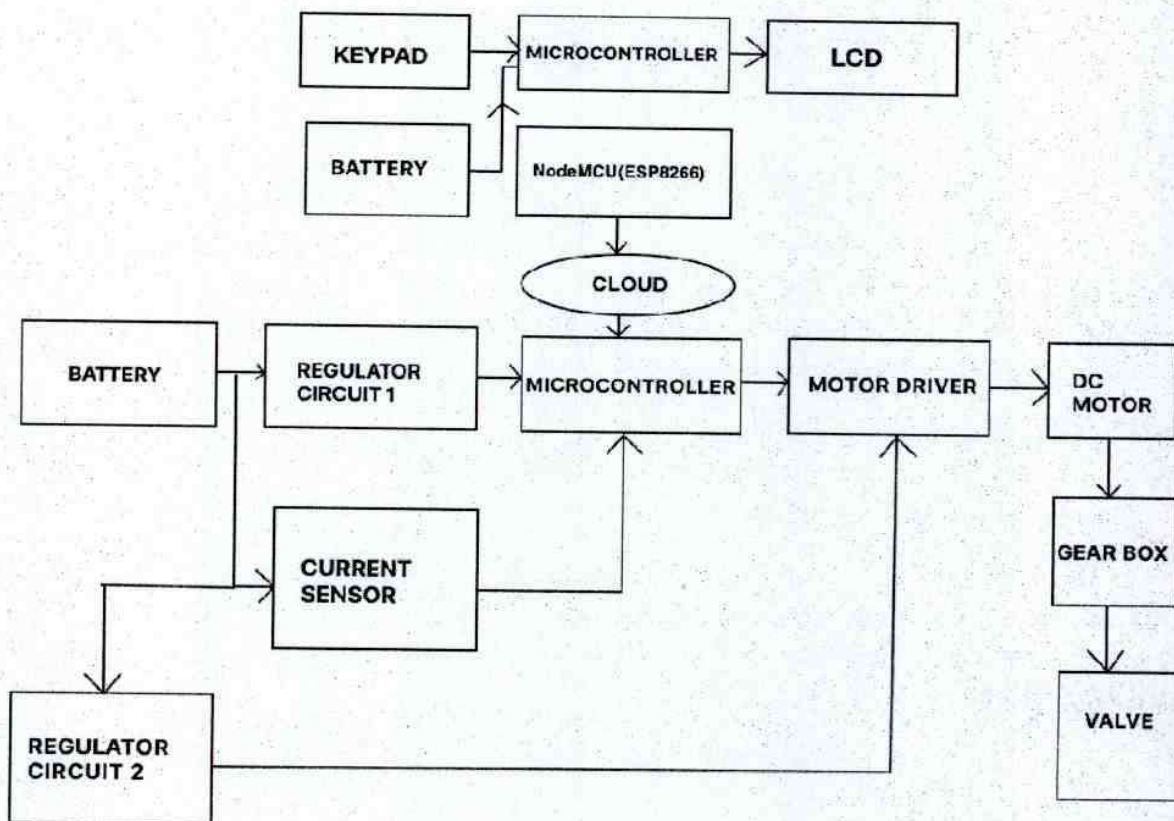
#### 2.4 Innovative elements of the proposed project :-

We have incorporated IoT in this so as to make it more efficient, fast and so as to save our data on the cloud for referral purposes.

#### Resources required?

- Are these available in the college? No
- If no, then how will the project be completed?
- The components will be purchased from the market.
- Various components include
  - > Power supply circuit components
  - > Arduino Uno
  - > Current sensor
  - > NodeMCU(ESP8266)
  - > Keypad
  - > LCD
  - > DC Motor
  - > Spur Gears
  - > Sluice Valve
  - > Packaging

## 2.5 METHODOLOGY:



**Figure 2: Overall System Block Diagram**

To make any project first of all an idea is thought about how to proceed step-by-step in the making of a working system. When the idea has been completely ventured, we begin with the market survey of all the components that are required, hence similarly in this product for mechanical arrangement we calculate the torque that our system requires at the valve end and compared and converter it from the one received by dc motor(one with specifications easily available in market) at input. We assembled other components and designed a gearbox as well so that the required torque for rotating the system was produced. After the sufficient torque was produced using the gearbox, we calculated the actual dimension of the product. On the other hand, for the electronic arrangement we started by interfacing the components with microprocessors like ATMEGA328p and NodeMCU(ESP8266). A proper code was written for interfacing first individually and then the whole system as per the block diagrams. Then, the circuit design and code was simulated on the softwares like Diptrace and Proteus. After the complete testing and simulation of the design all the components were arranged and set up properly so that there is no wear-and-tear of the components and system.

## BILL OF MATERIALS

**Table 6: Bill of materials**

COMPONENTS	QUANTITY	COST
ARDUINO UNO	2	450/- (PER)
LCD	1	90
KEYPAD	1	150
NODEMCU(ESP32 866)	2	600
CURRENT SENSOR	1	145
GEARBOX	1	2200
SLUICE VALVE	1	1000
BATTERY	3	50
MECHANICAL SETUP	-	500



**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)**

**Minutes of Meeting**

Date: 14/10/2016

**Subject:** Approval of incubation stage projects to be incubated in the Incubation Centre for the Session 2016-17.

**Chaired by:** Mr. S. N. Vijayvergiya

**Members Present:**

Sr. No.	Name of Faculty	Department
1.	Ashish Nayyar (in absentia)	Mechanical Engineering
2.	Ajay Kumar Dhanopia	
3.	Ankit Vijayvergiya	Electrical Engineering
4.	Abhishek Gupta	
5.	Akash Deo	
6.	Vinita Agrawal	Electronics & Communication Engineering
7.	Ankit Agarwal	
8.	Pallav Rawal (in absentia)	
9.	Mehul Mahrishi	Information Technology
10.	Basant Aggarwal	
11.	Mukesh Kumar Gupta (in absentia)	
12.	Kanak Giri	Computer Science Engineering
13.	Vinod Kataria	
14.	Naveen Jain	
15.	Priyanka Gupta (in absentia)	Civil Engineering
16.	Anirudh Mathur	

With reference to notice No SKIT/Incubation/2016/03, a meeting was called on 14/10/2016. In this meeting innovative project ideas were discussed, which are running in our incubation centre as pre-incubation stage. Out of those pre-incubated project ideas, final incubated projects were selected based on following criteria's:-

1. Marketability and societal problem solving ability of an idea.
2. Start-up mind-set of student's team member.
3. Uniqueness of idea been tried for the first time.





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4. Emerging technologies platform being used in an idea.

Based on above criteria's, following Projects have been approved under Incubation stage for the session 2016-2017 as required:

S. No.	RTU Roll No.	Student Name	Department	Faculty Name	Session	Project Name
1	13ESKME019	Bhupesh Kumar	ME	Chandra Mohan Kumar	2016-2017	Design and Fabrication of Foot Driven Paddy Threshing Machine
	13ESKME048	Kumar Navneet Singh				
	13ESKME049	Kumar Ranjan				
2	13ESKEE028	Chirag Soni	EE	Rida Qureshi	2016-17	Automatic Plant Watering System
	13ESKEE029	Dashrath Das				
	13ESKEE030	Deepak Bairwa				
	13ESKEE039	Harshit Mittal				
	13ESKEE040	Harshit Vijayvargiya				
3	14ESKCS619	Shalini Sikarwar	CSE	Basant Agarwal	2016 – 17	Recognizing Disguised Faces from Video Using Deep Learning
4	14ESKCS611	Najnin Banu	CSE	Basant Agarwal	2016 – 17	Sentiment Analysis of Tweets using Knowledge Based and Machine Learning Techniques

Meeting was ended with thanks to the chair.

Ajay Kumar Dhanopia  
(Meeting Secretary)

  
S. N. Vijayvargiya  
(Dean, R & D)



**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)**

**Minutes of Meeting**

Date: 16/10/2017

**Subject:** Approval of incubation stage projects to be incubated in the Incubation Centre for the Session 2017-18.

**Chaired by:** Mr. S. N. Vijayvergiya

**Members Present:**

Sr. No.	Name of Faculty	Department
1.	Ashish Nayyar	Mechanical Engineering
2.	Ajay Kumar Dhanopia	
3.	Ankit Vijayvergiya	
4.	Abhishek Gupta (in absentia)	Electrical Engineering
5.	Akash Deo	
6.	Ankit Agarwal (in absentia)	Electronics & Communication Engineering
7.	Pallav Rawal	
8.	Mehul Mahrishi	Information Technology
9.	Basant Aggarwal	
10.	Mukesh Kumar Gupta	
11.	Kanak Giri	Computer Science Engineering
12.	Vinod Kataria	
13.	Naveen Jain	
14.	Priyanka Gupta	Civil Engineering
15.	Anirudh Mathur (in absentia)	

With reference to notice No SKIT/Incubation/2016/03, a meeting was called on 16/10/2017. In this meeting innovative project ideas were discussed, which are running in our incubation centre as pre-incubation stage. Out of those pre-incubated project ideas, final incubated projects were selected based on following criteria's:-

1. Marketability and societal problem solving ability of an idea.
2. Start-up mind-set of student's team member.
3. Uniqueness of idea been tried for the first time.
4. Emerging technologies platform being used in an idea.

Based on above criteria's, following Projects have been approved under Incubation stage for the session: 2017-2018 as required:



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Techno SKIT Incubation Centre (SRIJAN)**

S. No.	RTU Roll No.	Student Name	Department	Faculty Name	Session	Project Name
1	14ESKME719	Harshit Ojha	ME	Rajendra Singh Chundawat	2017-2018	Hybrid Electric All Terrain Vehicle
	14ESKME721	Himanshu Choudhary				
	14ESKME706	Amit Tolambia				
	14ESKME763	Yogesh Kumawat				
	14ESKME752	Shubh Agarwal				
2	14ESKME754	Tejendra Badiwal	ME	Arun Beniwal	2017-2018	Enhancing the efficiency of Solar PV Panel Using Phase Change Material
	14ESKME755	Vaibhav Birla				
	14ESKME737	Pranjal Maheshwari				
	14ESKME732	Md. Arshad Mansori				
3	14ESKKEE001	Aayush Swami	EE	Ankit Vijayvergiya	2017-18	Net Zero Automatic Solar Panel Cleaning Robot
	14ESKKEE003	Abhishek Sharma				
	14ESKKEE019	Apoorv Ranjan				
	14ESKKEE018	Anubhav Pandey				
4	14ESKCS724	Harsh Manwani	CSE	Tapas Badal	2017-18	Automatic Attendance System Using Image Processing
	14ESKCS725	Harshvardhan Rajpurohit				
	14ESKCS729	Hridayesh Sharma				
	14ESKCS732	Kusum Sankhala				
5	14ESKCS003	Aayushi Beniwal	CSE	Kanak Giri	2017-18	Twitter Data Analysis
	14ESKCS068	Poonam Joshi				
	14ESKCS071	Prerna Gupta				
	14ESKCS065	Payal				
	14ESKCS108	Sumit Kumar				

Meeting was ended with thanks to the chair.

Ankit Vijayvergiya  
(Meeting Secretary)

S. N. Vijayvergiya  
(Dean, R & D)



**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)**

**Minutes of Meeting**

Date: 22/10/2018

**Subject:** Approval of incubation stage projects to be incubated in the Incubation Centre for the Session 2018-19

**Chaired by:** Mr. S. N. Vijayvergiya

**Members Present:**

Sr. No.	Name of Faculty	Department
1.	Ashish Nayyar	Mechanical Engineering
2.	Ajay Kumar Dhanopia	
3.	Ankit Vijayvargiya (in absentia)	
4.	Abhishek Gupta	Electrical Engineering
5.	Akash Deo	
6.	Ankit Agarwal	
7.	Pallav Rawal	Electronics & Communication Engineering
8.	Mehul Mahrishi (in absentia)	
9.	Basant Aggarwal	Information Technology
10.	Mukesh Kumar Gupta	
11.	Kanak Giri	
12.	Vinod Kataria (in absentia)	Computer Science Engineering
13.	Naveen Jain	
14.	Priyanka Gupta	
15.	Anirudh Mathur	Civil Engineering

With reference to notice No SKIT/Incubation/2016/03, a meeting was called on 22/10/2018. In this meeting innovative project ideas were discussed, which are running in our incubation centre as pre-incubation stage. Out of those pre-incubated project ideas, final incubated projects were selected based on following criteria's:-

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3. Uniqueness of idea been tried for the first time.
4. Emerging technologies platform being used in an idea.

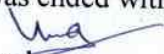



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MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)**

Based on above criteria's, following Projects have been approved under Incubation stage for the session 2018-2019 as required:

S. No.	RTU Roll No.	Student Name	Department	Faculty Name	Session	Project Name
1	15ESKME013	Akshat Gupta	ME	Naveen Sain	2018-2019	Smart Irrigation System
	15ESKME032	Ayush Gaur				
	15ESKME038	Chinmay Singh				
	15ESKME019	Anirudh Saini				
2	15ESKEE023	Bhuvnesh Dhakar	EE	Dr. Sarfaraz Nawaz	2018-19	Smart Car Parking Space Allotment
	15ESKEE026	Deepak Sharma				
	15ESKEE028	Devesh Yadav				
	15ESKEE029	Dhawal Gandhi				
	15ESKEE032	Gargy Swami				
3	15ESKEE116	Toshesh Meena	EE	Ankit Vijayvergiya	2018-19	Raspberry Pi Based Electromyography Signal Acquisition and Processing System
	15ESKEE112	Sunil Sharma				
	15ESKEE205	Sushil Jakhar				
	15ESKEE118	Vidhi Sharma				
4	15ESKEC028	Bhawani Singh	EC	Mr. Pallav Rawal	2018-19	SMS actuated water supply distribution in a locality
	15ESKEC032	Devang Mathur				
	15ESKEC036	Divyanshi Gupta				
	15ESKEC047	Kritartha Paliwal				
	15ESKEC048	Lavina Tharwani				
5	Mayank Tiwari	(15ESKCS109)	CSE	Basant Aggarwal	2018-19	Air pollution monitoring system
	Megha Bansal	(15ESKCS110)				
	Mukul Garg	(15ESKCS114)				
	Nakul Goyal	15ESKCS115				

Meeting was ended with thanks to the chair.

  
Pallav Rawal  
(Meeting Secretary)

  
S. N. Vijayvergiya  
(Dean, R & D)



**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN, Ramnagar, Jaipur-302017  
Techno SKIT Incubation Centre (SRIJAN)**

**Minutes of Meeting**

Date: 18/10/2019

**Subject:** Approval of incubation stage projects to be incubated in the Incubation Centre for the Session 2019-20

**Chaired by:** Mr. S. N. Vijayvergiya

**Members Present:**

Sr. No.	Name of Faculty	Department
1.	Ashish Nayyar	Mechanical Engineering
2.	Ajay Kumar Dhanopia (in absentia)	
3.	Sumit Jhalani	
4.	Ankit Vijayvargiya	Electrical Engineering
5.	Arun Nayak	
6.	Abhishek Gupta (in absentia)	
7.	Akash Deo	
8.	Vikas Pathak	Electronics & Communication Engineering
9.	Ankit Agarwal	
10.	Priyanka Sharma (in absentia)	
11.	Pallav Rawal	Information Technology
12.	Mehul Mahrishi	
13.	Rajat Goel	Computer Science Engineering
14.	Kanak Giri	
15.	Vinod Kataria	
16.	Naveen Jain (in absentia)	
17.	Priyanka Gupta	Civil Engineering
18.	Ajay Gautam (in absentia)	
19.	Anirudh Mathur	

With reference to notice No SKIT/Incubation/2016/03, a meeting was called on 18/10/2019. In this meeting innovative project ideas were discussed, which are running in our incubation centre as pre-incubation stage. Out of those pre-incubated project ideas, final incubated projects were selected based on following criteria's:-

1. Marketability and societal problem solving ability of an idea.
2. Start-up mind-set of student's team member.



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3. Uniqueness of idea been tried for the first time.
4. Emerging technologies platform being used in an idea.

Based on above criteria's, following Projects have been approved under Incubation stage for the session 2019-2020 as required:

S. No.	RTU Roll No.	Student Name	Department	Faculty Name	Session	Project Name
1.	16ESKME010	Aakash Agarwal	ME	Suhaib Ansari	2019-2020	Design, Development and Testing of Semi Automated Pothole Filling Machine
	16ESKME052	Deependra Singh				
	16ESKME152	Saket Khandelwal				
	16ESKME165	Supreet Singh				
	16ESKME183	Vishnu Ramdev				
2.	16ESKME700	Abhay Vijay Vargiya	ME	Ajay Kumar Dhanopia	2019-2020	Monowheel Electric Vehicle
	16ESKME705	Aman Goyal				
	16ESKME731	Nishil Saini				
	16ESKME707	Anant Bachani				
	16ESKME169	Tanay Choudhary				
3.	16ESKEE021	Arpit Sharma	EE	Akash Deo	2019-20	Designing and Implementation of Cascaded H-Brige Multilevel Inverter
	16ESKEE030	Devendra Gautam				
	16ESKEE029	Deepanshu Mittal				
	16ESKEE042	Hina Khatri				
	16ESKEE034	Gireek Raj				
4.	16ESKEC060	Pranjali Verma	EC	Dr. Rukhsar Zafar	2019-20	Smart Lightning System by automatic controlling intensity according to density of persons
	16ESKEC068	Ritvik Chaturvedi				
	16ESKEC069	Riya Khandelwal				
	16ESKEC064	Rishabh Rana				
5.	16ESKEC014	Anmol Bajaj			2019-20	Automatic



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	16ESKEC005	Aditi Sharma	EC	Mr. Pallav Rawal		water supply distribution
	16ESKEC017	Anshul Kothari				
6.	18ESKMCS02	Deepika Kanwar	CSE	Mukesh Kumar Gupta	2019-20	Automatic attendance system using face recognition techniques and deep learning
	18ESKMCS04	Hanisha Nankani				

Meeting was ended with thanks to the chair.

Vikas Pathak  
(Meeting Secretary)

  
S. N. Vijayvergiya  
(Dean, R & D)





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**Minutes of Meeting**

Date: 26/10/2020

**Subject:** Approval of incubation stage projects to be incubated in the Incubation Centre for the Session 2020-21

**Chaired by:** Mr. S. N. Vijayvergiya

**Members Present:**

Sr. No.	Name of Faculty	Department
1.	Ashish Nayyar	Mechanical Engineering
2.	Ajay Kumar Dhanopia	
3.	Ankit Vijayvergiya	Electrical Engineering
4.	Akash Deo (in absentia)	
5.	Vikas Pathak	Electronics & Communication Engineering
6.	Ankit Agarwal	
7.	Priyanka Sharma	
8.	Pallav Rawal	
9.	Mehul Mahrishi	Information Technology
10.	Rajat Goel	
11.	Kanak Giri (in absentia)	Computer Science Engineering
12.	Ankit Kumar	
13.	Naveen Jain	
14.	Priyanka Gupta	Civil Engineering
15.	Anirudh Mathur (in absentia)	

With reference to notice No SKIT/Incubation/2020/03, a meeting was called on 16/10/2020. In this meeting innovative project ideas were discussed, which are running in our incubation centre as pre-incubation stage. Out of those pre-incubated project ideas, final incubated projects were selected based on following criteria's:-

1. Marketability and societal problem solving ability of an idea.
2. Start-up mind-set of student's team member.
3. Uniqueness of idea been tried for the first time.
4. Emerging technologies platform being used in an idea.

Based on above criteria's, following Projects have been approved under Incubation stage for the session 2020-2021 as required:



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S. No.	RTU Roll No.	Student Name	Department	Faculty Name	Session	Project Name
1.	17ESKEC025	Deepa Kumari	EC	Ankit Agarwal	2020-21	IoT Based Agriculture Monitoring System of Soil and Atmospheric Parameters
	17ESKEC032	Ishan Rajvanshi				
	17ESKEC034	Jayesh Mehta				
	17ESKEC035	Kartik Mathur				
2.	16ESKEE022	Ayushi Malhotra	EE	Ankit Vijayvergiya	2020-21	Human Activity Detection using Machine Learning Techniques
	16ESKEE045	Kratika Agrawal				
	16ESKEE058	Nidhi Kumari				
	16ESKEE065	Palak Gupta				
3	17ESKCE021	Bhaarat Vaishnav	CE	Ankur Mishra	2020-21	The Effects of Viscous Damping Modeling Methods on Seismic Performance of RC Moment Frames
	17ESKCE023	Bhavesh Lavania				
	17ESKCE030	Geetesh Rajawat				
	17ESKCE033	Harsh Sangwan				
4	17ESKME011	Ajit Singh Shekawat	ME	Ajay Kumar Dhanopia	2020-21	Smart Door for Home Appliances
	17ESKME017	Aman Jain				
	17ESKME047	Harshit Kumat				
	17ESKME054	Himanshu Nehra				
	17ESKME063	Jitendra Kumar Bairwa				
5	17ESKME005	Aditya Sharma	ME	Nikhil Sharma	2020-21	Design of Low-Cost Refrigeration System using LPG
	17ESKME008	Abhishek Sharma				
	17ESKME010	Aditya Chouhan				
	17ESKME014	Akshay kumar Meena				

Meeting was ended with thanks to the chair.

Vikas Pathak  
(Meeting Secretary)

S. N. Vijayvergiya  
(Dean, R & D)