



AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

*(A Constituent college of Vinayaka Mission's Research Foundation)
Vinayaka Nagar, OMR, Paiyanoor, Chennai – 603 103.*



VINAYAKA MISSION'S RESEARCH FOUNDATION

Deemed to be University - Declared under section 3 of the UGC Act, 1956

INOVATIVE PROJECT INCUBATION CENTRE (IPIC)

ORGANIZED

PROJECT EXPO & IDEA CONTEST – 2019

Date : 12.04.2019

Venue : Outdoor Auditorium



ACCREDITED BY NAAC



APPROVED BY AICTE

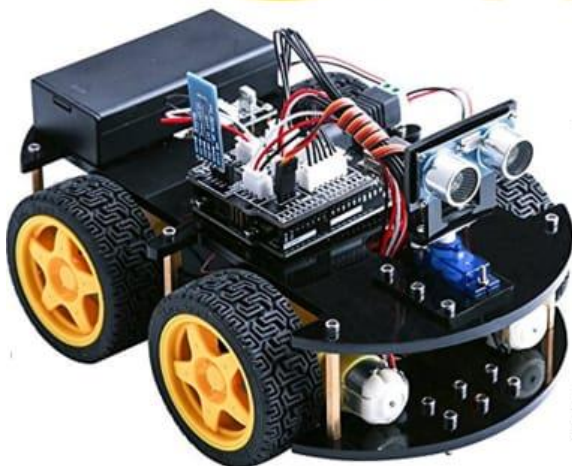


12th APRIL
2019
09:15 AM

**OUTDOOR
 AUDITORIUM,
 AVIT**



PROJECT EXPO - 2019



OPEN TO ALL DEPARTMENT STUDENTS
MAXIMUM 3 STUDENTS PER PROJECT DISPLAY

STAFF COORDINATORS

Mr. R. PRAVEEN, AP (GR II), MECH - 90431 48681
 Mr. S. MUTHUSELVAN, AP (GR II), CSE - 80720 08314
 Mr. N. P. GOPINATH, AP (GR II), EEE - 80560 15735

DY. DIRECTOR (iC , AVIT)
 Dr. K. BOOPATHY, PROFESSOR, EEE

DIRECTOR (IPIC)
 Prof. L. PRABHU, HOD- MECH

REACH US @

**VINAYAKA NAGAR,
 OLD MAHABALIPURAM ROAD, PAIYANOR,
 CHENNAI, TAMIL NADU, 603104.
www.avit.ac.in**



**AARUPADAI VEEDU
 INSTITUTE OF TECHNOLOGY**
(An Constituent College of Vinayaka Mission's Research Foundation)



**VINAYAKA MISSION'S
 RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)



APPROVED BY AICTE



ACCREDITED BY NAAC



**AARUPADAI VEEDU
INSTITUTE OF TECHNOLOGY**
(An Constituent College of Vinayaka Mission's Research Foundation)



**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)



APPROVED BY AICTE



ACCREDITED BY NAAC

CORDIALLY INVITES YOU TO THE

PROJECT EXPO - 2019

Date : 12th Apr 2019

Time: 09.30 AM

Venue: Outdoor Auditorium

&

IDEA CONTEST - 2019

Date : 12th Apr 2019

Time: 01.30 PM

Venue: Digital Class Room II

Presided By

SIR Dr. M. PONNAVAIKKO
Provost, VMRF

Special Address By

Dr.S.A.V.SATYA MURTY
Director (ETR), VMRF

Dr. P. SHANKAR
Principal, AVIT

Felicitation

Mr. T. SRINIVASAN
Head Operations, AVIT

Dr. S. P. SANGEETHA
VP(Academics) AVIT & HOD / CIVIL

Prof. P. RAJASEKARAN
VP(Admin.), AVIT

With warm regards

Dr. K. BOOPATHY
Dy. Director (iC AVIT), Prof. EEE

Prof.L.PRABHU
Director IPIC, HOD - MECH



**AARUPADAI VEEDU
INSTITUTE OF TECHNOLOGY**
OMR, PAIYANOR, CHENNAI - 603104



**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)



APPROVED BY AICTE



ACCREDITED BY NAAC

IPIC-Innovative Product Development & Incubation Centre AVITiC – Innovation & Incubation Cell

The **Innovative Product Development and Incubation Centre (IPIC)** – AVIT in association with **Incubation Centre (IC)** has organized a **PROJECT EXPO & IDEA CONTEST – 2019** for students of all years, Courses & Departments of AVIT campus. The Project expo was organized in the outdoor auditorium.

The Invocation of the event was held in the outdoor auditorium and the event was inaugurated with “Ribbon cutting ceremony” followed by the lighting of “Kuthu villaku”. The event was presided by **Sir. Dr. M. Ponnavaiko, Provost, VMRF**. The event was declared open by the special invitees **Dr. S.A. Sathya murthy, Director, ETR, VMRF** and **Dr. P. Shankar, Principal, AVIT**. The Chief guests **Mr. T. Srinivasan, Head operations, AVIT, Dr. S.P. Sangeetha, VP (Academics), Prof. P. Rajasekaran, VP (Admin.), AVIT** were felicitated. The event was organized by **Prof. L. Prabhu, Director IPIC & Head – Mechanical**. The event was co-ordinated by **Dr. K. Boopathy, Dy. Director, IC – AVIT**.

There were nearly 85 projects displayed in the open auditorium and nearly 250 students eagerly participated and interacted with the special invitees, judges and interacted among the students of various departments. The students explained the concepts, ideas and demonstrated their working model. The students felt that this would be a better platform to interact and showcase their skills and talent.

Attractive prizes, shield and participant certificate were provided for the students who involved themselves and exhibited their talents.

Time	AGENDA	
9.15 AM	<i>Invocation at Main Auditorium</i>	
9.20 AM	<i>Lighting</i>	
9.25 AM	<i>Welcome Address</i>	Prof. L. Prabu, Director, IPIC HOD- Mechanical Engineering
9.30 AM	<i>Report Reading</i>	Dr. K. Boopathy Associate Professor, EEE
9.35 AM	<i>Felicitation</i>	Dr M.Ponnavaikko Provost , VMRF
		Dr P.Shankar Principal, AVIT
9.40 AM	<i>Ribbon cutting ceremony</i>	
9.45 AM	<i>Vote of Thanks</i>	Mrs. PA. Suriya Assistant Professor (Gr-II) , AVIT
PROJECT EXPO-2019		
10.00 AM	<i>Venue</i>	Outdoor Auditorium
IDEA CONTEST 2019		
1.30 PM	<i>Venue</i>	Digital Classroom II
PRIZE & CERTIFICATE DISTRIBUTION		
3.30 PM	<i>Venue</i>	Main Auditorium

LIST OF PROJECTS DISPLAYED FOR “PROJECT EXPO – 2019”

S.NO.	TITLE	DEPARTMENT
1.	EARLY DETECTION OF PARKINSON’S DISEASE	BIOMEDICAL
2.	DETECTION OF CHOLESTROL EFFECT IN NON INVASIVE METHOD BY UV RAYS	BIOMEDICAL
3.	INFANT MONITORING SYSTEM	BIOMEDICAL
4.	GAIT AND BALANCE DISORDER DETECTION FOR ELDERLY PEOPLE	BIOMEDICAL
5.	BRAIN MACHINE INTERFACE	BIOMEDICAL
6.	LINE TRACKING ROBOT	BIOMEDICAL
7.	EARLY DETECTION AND DIAGONOSIS OF RHEUMATOID ARTHIRITIS	BIOMEDICAL
8.	TOOTH PRESSURE MONITORING DEVICE	BIOMEDICAL
9.	HEXAPOD	BIOMEDICAL
10.	IOT BASED REMOTE PATIENT HEALTH MONITORING SYTEM USING NON INVASIVE TYPE SENSOR	BIOMEDICAL
11.	WALL PAINTING ROBOT	CIVIL
12.	LOW COST BIOGAS PURIFICATION SYSTEM	CIVIL
13.	DESIGN AND FABRICATION OF DESALINATION PLANT	CIVIL

14.	PROTOTYPE OF WIND MILL	CIVIL
15.	ROTATION BRIDGE	CIVIL
16.	EARTHQUAKE RESISTANCE BUILDING BY BRACING SYSTEM	CIVIL
17.	HYDRAULIC SUSPENSION BRIDGE	CIVIL
18.	VERTICAL LIFTING BRIDGE	CIVIL
19.	STRUCTURAL MONITORING USING IOT	CSE
20.	IOT BASED SMART IRRIGATION SYSTEM	CSE
21.	IOT BASED SMART ENERGY METER USING CLOUD SERVICE	CSE
22.	IMAGE CLASSIFICATION USING TENSORFLOW	CSE
23.	SENTIMENT ANALYSIS ON TWITTER DATA TO UNDERSTAND PUBLIC OPINION ON NEET EXAMS IN INDIA	CSE
24.	MEDICARE MOBILE APPLICATIONS IMPLEMENTED USING ANDROID (MEDIONE)	CSE
25.	MACHINE LEARNING BASED ATTENDANCE MARKING SYSTEM USING PYTHON	CSE
26.	GAS LEAKAGE RECOGNITION AND SMART WARY SYSTEM USING IOT	CSE
27.	DISEASE PREDICTION SYSTEM BASED ON BAYES NETWORK IMPLEMENTED AS ANDROID APP	CSE
28.	MULTI ROTOR WIND TURBINE	EEE

29.	OBJECT DETECTION AND IMAGE CATCHING USING DRONE WITH WIFI TECHNOLOGY	EEE
30.	9 in 1 SOLAR POWERED BLUETOOTH SPEAKER LIGHTING UNIT WITH FM RADIO AND USB CHARGER.	EEE
31.	ONLINE MONITORING AND ANALYSIS THE SPEED MEASUREMENT OF DC MACHINES USING IR SENSOR AND ARDUINO NANO	EEE
32.	ONLINE MONITORING PARAMETERS OF AC MACHINES USING IOT	EEE
33.	SMART FARMING	EEE
34.	PV-WIND POWER SYSTEM FOR A STAND ALONE APPLICATION	EEE
35.	IOT BASED AIR POLLUTION MONITORING	H & S
36.	POWER GENERATION BY TESLA COIL	H & S
37.	SOUND FROM LIGHT USING LED	H & S
38.	HYDRAULIC OVERBRIDGE FOR TRAFFIC CONTROL	H & S
39.	INTELLIGENT BABY WARMER	MECHANICAL
40.	DESIGN AND FABRICATION OF ROBOTIC NURSING SYSTEM	MECHANICAL
41.	FABRICATION OF AUTOMATIC SEWAGE CLEANING MACHINE WITH SOLAR SYSTEM	MECHANICAL
42.	SOLAR WATER PUMPING SYSTEM	MECHANICAL
43.	CONDENSATE WASTE HEAT UTILISATION IN SPLIT AC	MECHANICAL

44.	DESIGN AND FABRICATION OF RAPID PROTO TYPING	MECHANICAL
45.	DESIGN AND FABRICATION OF MONO WHEEL BIKE	MECHANICAL
46.	SOLAR GRASS CUTTER	MECHANICAL
47.	IMPROVEMENT OF EFFICIENCY OF REFRIGERATION SYSTEM BY USING HYBRID NANO LUBRICANTS	MECHANICAL
48.	DESIGN AND FABRICATION OF INTELLIGENT ACTIVE SUSPENSION SYSTEM	MECHANICAL
49.	DESIGN AND FABRICATION OF SEED BALL MANUFACTURING	MECHANICAL
50.	MULTIPURPOSE AGRICULTURAL MACHINE	MECHANICAL
51.	FABRICATION OF SOLAR BASED AIR COOLER	MECHANICAL
52.	DESIGN AND FABRICATION OF LASER ENGRAVING MACHINE	MECHANICAL
53.	GRAINS BOILING PROCESS BY USING RENEWABLE ENERGY (SOLAR COOKER)	MECHANICAL
54.	DESIGN AND FABRICATION OF AIR INFLATING SYSTEM	MECHANICAL
55.	SOLAR WATER PUMPING SYSTEM	MECHANICAL
56.	BIO FORMULATION TO ENRICH PLANT GROWTH	BIOTECH
57.	FABRICATION OF TEXTILE FABRICS WITH PLANT EXTRACTS FOR ENHANCED ANTIMICROBIAL ACTIVITY	BIOTECH
58.	SYNTHESIS OF SILVER NANOPARTICLES FROM TRIDAX PROCUMBENS	BIOTECH

59.	BIO-CEMENT : SELF HEALING CONCRETE	BIOTECH
60.	MORINGA CARE YOU & EARTH - FEMININE PAD	BIOTECH
61.	SYNTHESIS & PHYTOFABRICAITON OF SILVER NANOPARTICLES USING PAPAYA PULP EXTRACT IN COPPER IUD TO ALLIEVATE PELVIC INFLAMMATORY DISEASE	BIOTECH
62.	MINING ENVIRONMENT MONITORING SYSTEM USING LIFI	ECE
63.	SYSTEM ARCHITECTURE FOR TRACKING PASSENGER INSIDE AN AIRPORT TERMINAL USING RFID	ECE
64.	PASSWORD BASED DOOR LOCK SYSTEM USING 8051 MICROCONTROLLER	ECE
65.	POWER CONSUMPTION REDUCTION BY SMART CONTROL OF HIGHWAY LIGHTING	ECE
66.	FARMING TO AVOID SNAKE BITES USING ULTRASONIC WAVES	ECE
67.	GARBAGE MONITORING SYSTEM USING IOT	ECE
68.	IOT BASED REAL TIME MONITORING & CONTROLLING SYSTEM FOR FOOD GRAIN PROCUREMENT AND STORAGE	ECE
69.	WEATHER MONITORING SYSTEM USING IOT	ECE
70.	VOICE CONTROLLED WHEELCHAIR SYSTEM	ECE
71.	SMART HEALTH MONITORING SYSTEM USING GSM FOR PREGNANT WOMEN	ECE
72.	VEHICLE ACCIDENT DETECTION AND ALERT MESSAGING	ECE

73.	VIRTUAL KEYBOARD USING IMAGE PROCESSING	ECE
74.	ACCIDENT DETECTION IN BLUETOOTH ENABLED SMART HELMETS FOR MOTORBIKES	ECE
75.	TWO PHASE SEPARATION USING LIQUID LEVEL CONTROL SYSTEM USING PLC AND SCADA	ECE
76.	DESIGN AND DEVELOPMENT OF DRIVER'S DRIVING PATTERN ANALYSIS FOR AUTOMATIC LICENSE ISSUING SYSTEM	ECE
77.	SECURE IMPLEMENTATION OF CRYPTO PRIMITIVES	ECE

EVENT PHOTOS



