3.1.2 The institution provides seed money to its teachers for research (Average per year)

Year	2020-21	2019-20	2018-19	2017-18	2016-17
INR in lakhs	8.37	6.37	5.63	5.27	5.88

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583. Chittoor (Dt.) A.P.

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583.Chittoor Dist.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR- 517583, CHITTOOR DISTRICT, ANDHRA PRADESH, INDIA.

Ref No. SIETK/R&D/01/2020-21

Date: 18/07/2020

Circular

All Heads of the Departments are here by informed that R& D cell will provide the Seed Money to support faculty research activities. Kindly circulate this information to all faculty members to utilize the opportunity. Herewith the needed faculty are to submit the proposal in the following format. Last date for the proposal submission to concern department HOD is 29.07.2020.

Dean R&D

(Dr. P.G.GOPINATH)

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

Principal

(Dr.K.CHANDRASEKHAR REDDY)

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583,Chittoor Dist.

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF PROJECTS RECEIVED FOR SEEDMONEY FROM DEPARTMENTS FOR ACY 2020-2021

S.No.	Department	Title of the Project	Name of the Faculty	Estimated Cost of the Project
1	AGRI	Development and evaluation of solar power operated Boom sprayer	Dr. Shashikumar	38000
2		Development of manually operated paddy straw rake	Dr. Bogala Madhu	22000
3		Development and evaluation of solar power operated weeder	Dr. Shashikumar	40000
4		Development of millet dehusker	Dr. Bogala Madhu	39000
5	ECE	AI Based Robot For Patient Monitoring	Mr.P.Pavan Kumar	10614
6		Arduino Based Automatic Washroom Sanitizing System For Effective Utilization Of Public Toilets	Dr.P.G.Gopinath	11406
7		Design & Implementation Of Covid 19 Emergency Ventilator System	C.VijayaBhaskar	15150
8		An Advanced Cafeteria System Using Robots	Dr.T.Senthil	13470
9		IOT Based Temperature And Mask Scanning Entry System	Mr.K.D.Mohana Sundaram	15200
10		War Field Multipurpose Robot	P.Ratna Kamala	20720
11		Accident Monitoring System Using Drones	P.Chandanakala	15570
12		IOT Based Organic Farming By Using Aquaponic Method	P.G.Gopinath	11970
13		Heart Attack Detection Using Iot	J.Rajanikanth	20720
14		Converyer-Belt Based Pick And Sort Industrial Robotics Applications	B.RaviBabu	18420
15		Smart Wireless Water Meter Using Iot	PMJ Balaji	20165
16		Automatic Irrigation System Using Iot	J.Rajanikanth	19160
17		Iot Based Ventilator And Health Monitoring System	PMJ Balaji	21558
18		Machine Learning Based Surveillance System For Detection Of Bike Riders Without Wearing Helmets, Tripple Riders And Vehicle Over speed Detection	Nivedita Biswas	20300
19		Design And Implementation Of Autonomous Healthcare Robot Using Machine Learning	P.Pavan Kumar	18250

20	EEE	Design and implementation of automated irrigation system in agricultu	Dr. N.RAMESH RAJU	35000
21		current sensor fault diagnosis and tolerant control of VSI-Based induction motor drives.	Mr.P. CHANDRA SEKHAR	30000
22		Implementation of solar PV battery and diesel generator based electric	Dr. J.GOWRI SHANKAR	35000
23		Minizing penalty in industrial power consumption by engaging apfc un	Ms. V.MANASA	35000
24		IOT based street lighting and traffic management system	Mr. P.MUNI SEKHAR	30000
25		Automatic Street Light Controller Using RTC.	Mr. S.MUNI SEKHAR	35000
26		Testing the performance of battery energy storage in a wind energy con	Mr.RAHUL BHATTACCHARJEE	35000
27	MECH	Design and Fabrication of Adjustable Solar Agriculture Weeder	Mr. B.A.DEVAN	45000
28		Design and Fabrication of Multipurpose Portable E-Bike	Dr.K.SIVA KUMAR	45000
29		Experimental Investigation on Diesel Engine Powered by Lemon Grass Biofuel with Fuel Additive	Dr.C.SREDDHAR	40000
30		Modelling and Fabrication of Polyamide 11 based fibula bone scaffolds using sls technique	Dr.S.SURESH	45000
31		Design and Fabrication of Glass Filled Nylon Based Bone Scaffolds using AM Techniques	Mr. K.SAI PRASAD	50000
32	CIVIL	Self-curing concrete by using polyethylene Glycol-400	Prof C. SIVA KUMAR PRASA	35000
33		Experimental Investigation conventional concrete by partial replacement of Iron Dust in cement with addition of steel fibre	Mrs. K. ASHALATHA	32000
34		Experimental Study on LWA concrete by partial replacement of cement with Egg Shell powder & Fine Aggregate with Saw dust	Ms. C. SAILAJA	28000
35		Experimental Investigation on strength properties of concrete by partially replacing cement with Silica Fume & FA by Scrap rubber	Mr. N. ELAKKIYARAJAN	35000
			Total	981673

Dean - R&D
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
(AUTONOMOUS)
RESEARCH & DEVELOPMENT
PROJECT ASSESSMENT FOR SEEDMONEY FOR ACY 2020-2021

S.No.	Department	Title of the Project	Thrust area of research	Social Responsibility	Novelty of the Project	Economic Aspects	Reliability and Feasibility	Design, Analysis, Simulation	Fabrication	Creative competence	Total (Max 40 Marks)	Recommended / Not Recommended (Minimum 28 marks for Recommended)
1	AGRI	Development and evaluation of solar power operated Boom sprayer	4	3	4	4	4	4	4	4	31	Recom.
2		Development of manually operated paddy straw rake	4	4	4	4	5	4	5	4	34	Recom.
3		Development and evaluation of solar power operated weeder	4	4	4	3	3	4	4	4	30	Recom.
4		Development of millet dehusker	3	4	4	3	3	3	3	2	25	Not Rec.
5	ECE	AI Based Robot For Patient Monitoring	4	4	4	3	3	4	4	3	29	Recom.
6		Arduino Based Automatic Washroom Sanitizing System For Effective Utilization Of Public Toilets	4	4	4	3	3	4	4	4	30	Recom.
7		Design & Implementation Of Covid 19 Emergency Ventilator System	4	4	4	4	3	4	4	3	30	Recom.
8		An Advanced Cafeteria System Using Robots	4	4	4	4	5	4	4	4	33	Recom.
9		IOT Based Temperature And Mask Scanning Entry System	4	3	4	4	4	4	4	4	31	Recom.
10		War Field Multipurpose Robot	4	4	4	4	5	4	5	4	34	Recom.
11		Accident Monitoring System Using Drones	4	4	4	3	3	4	4	3	29	Recom.
12		IOT Based Organic Farming By Using Aquaponic Method	4	3	3	4	4	4	4	4	30	Recom.
13		Heart Attack Detection Using Iot	4	4	4	3	3	4	4	4	30	Recom.
14		Converyer-Belt Based Pick And Sort Industrial Robotics Applications	4	4	4	4	4	3	3	4	30	Recom.
15		Smart Wireless Water Meter Using Iot	4	3	4	4	4	4	4	4	31	Recom.
16		Automatic Irrigation System Using Iot	4	4	4	4	5	4	5	4	34	Recom.
17		Iot Based Ventilator And Health Monitoring System	4	4	4	3	3	4	4	3	29	Recom.
18		Machine Learning Based Surveillance System For Detection Of Bike Riders Without Wearing Helmets, Tripple Riders And Vehicle Over speed Detection	4	3	4	4	4	3	4	4	30	Recom.
19		Design And Implementation Of Autonomous Healthcare Robot Using Machine Learning	4	3	4	4	4	4	4	4	31	Recom.

20	EEE	Design and implementation of automated irrigation system in agricultu	4	4	4	4	5	4	4	4	33	Recom.
21		current sensor fault diagnosis and tolerant control of VSI-Based induction motor drives.	4	4	4	5	4	4	4	4	33	Recom.
22		Implementation of solar PV battery and diesel generator based electric	4	4	4	3	3	4	4	4	30	Recom.
23		Minizing penalty in industrial power consumption by engaging apfc un	4	4	4	4	4	4	4	4	32	Recom.
24		IOT based street lighting and traffic management system	4	3	4	4	4	4	4	4	31	Recom.
25		Automatic Street Light Controller Using RTC.	3	3	3	4	4	3	3	3	26	Not Rec.
26		Testing the performance of battery energy storage in a wind energy co	3	3	3	2	2	3	3	3	22	Not Rec.
27	MECH	Design and Fabrication of Adjustable Solar Agriculture Weeder	4	4	4	4	4	4	4	4	32	Recom.
28		Design and Fabrication of Multipurpose Portable E-Bike	4	3	4	4	4	4	4	4	31	Recom.
29		Experimental Investigation on Diesel Engine Powered by Lemon Grass Biofuel with Fuel Additive	4	3	4	4	4	4	4	4	31	Recom.
30		Modelling and Fabrication of Polyamide 11 based fibula bone scaffolds using sls technique	4	4	4	5	4	4	5	4	34	Recom.
31		Design and Fabrication of Glass Filled Nylon Based Bone Scaffolds using AM Techniques	4	4	4	3	3	3	4	4	29	Recom.
32	CIVIL	Self-curing concrete by using polyethylene Glycol-400	4	4	4	3	3	4	4	4	30	Recom.
33		Experimental Investigation conventional concrete by partial replacement of Iron Dust in cement with addition of steel fibre	4	4	4	4	4	4	4	4	32	Recom.
34		Experimental Study on LWA concrete by partial replacement of cement with Egg Shell powder & Fine Aggregate with Saw dust	4	3	4	4	4	4	4	4	31	Recom.
35		Experimental Investigation on strength properties of concrete by partially replacing cement with Silica Fume & FA by Scrap rubber	3	3	3	4	4	3	4	3	27	Not Rec.

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF SANCTIONED PROJECTS FOR SEEDMONEY FOR ACY 2020-2021

S.No.	Dept.	Title of the Project	Name of the Faculty	Sanctioned Amount (Rs)
1	AGRI	Development and evaluation of solar power operated Boom sprayer	Dr. Shashikumar	38000
2		Development of manually operated paddy straw rake	Dr. Bogala Madhu	22000
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4	ECE	AI Based Robot For Patient Monitoring	Mr.P.Pavan Kumar	10614
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18		Design And Implementation Of Autonomous Healthcare Robot Using Machine Learning	P.Pavan Kumar	18250
19		Design and implementation of automated irrigation system in agricultural using w	Dr. N.Ramesh Raju	35000

20	EEE	current sensor fault diagnosis and tolerant control of VSI-Based induction motor drives.	Mr.P. Chandra Sekhar	30000
21		Implementation of solar PV battery and diesel generator based electric vehicle cha	Dr. J.Gowri Sankar	35000
22		Minizing penalty in industrial power consumption by engaging apfc unit.	Ms. V.Manasa	35000
23		IOT based street lighting and traffic management system	Mr. P.Muni Sekhar	30000
24	MECH	Design and Fabrication of Adjustable Solar Agriculture Weeder	Mr. B.A.Devan	45000
25		Design and Fabrication of Multipurpose Portable E-Bike	Dr.K.Siva Kumar	45000
26		Experimental Investigation on Diesel Engine Powered by Lemon Grass Biofuel with Fuel Additive	Dr.C.Sreedhar	40000
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31		Experimental Study on LWA concrete by partial replacement of cement with Egg Shell powder & Fine Aggregate with Saw dust	Ms. C. Sailaja	28000
			Total	837673

Dean - R&D
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Puttur -517583, Chittoor District, A.P. (India)

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2020 - 2021

1. Personal Details

Name	Dr Shashikumar	Branch	Agricultural Engineering
Designation	Assistant Professor		
Email ID	skrani935@gmail.com		
Mobile Number	9535912527/9113019074		

2. Sector of the challenge (Please write the appropriate sector)

Agricultural Engineering

3. Synopsis of the Research Project Proposal:

DEVELOPMENT OF SOLAR ENERGY OPERATED BOOM SPRAYER

A sprayer is a machine used to apply chemicals in a liquid form. The spraying is traditionally done by labor carrying knapsack type sprayer which requires more human efforts. So, to overcome this problem, here tried to design the equipment which will be beneficial to the farmer for the spraying operations. The solar power operated boom sprayer is one of the most economical equipment is mainly used due to less repair and maintenance costs and has less environmental impact than sprayers operated by internal combustion engines. These sprayers run on electricity generated by photovoltaic panel and stored electricity in a Lead acid battery and operated through a DC motor with spray pump. Keeping in view of above facts, a research topic entitled "Development and evaluation of solar power operated Boom sprayer" is chosen.

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Puttur -517583, Chittoor District, A.P. (India)

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Motor	10000/-	1	10000/-
2	Sheet metal & Iron Frames	4000/-	18 sft & 25 kg	4000/-
3	Pump & Battery	8000/-	1	8000/-
4	Solar panel	10000/-	2	10000/-
5	Miscellaneous	6000/-	-	6000/-

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD

HEAD
Department of Agricultural Engineering
Siddharth Institute of Engineering & Technology
Narayanavanam Road, PUTTUR.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
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Puttur -517583, Chittoor District, A.P. (India)

Development and evaluation of solar power operated Boom sprayer

A sprayer is a machine used to apply chemicals in a liquid form to the agricultural crops. The application of chemicals or spraying is traditionally done by labor carrying knapsack type sprayer which requires more human efforts. Therefore, to combat this problem, here we tried to design the equipment which will be beneficial to the farmer for the spraying operations. The solar power operated boom sprayer is highly economical equipment mainly due to less repair and maintenance costs and has less environmental impact than sprayers operated by internal combustion engines. These sprayers run on electricity generated by photovoltaic panel and stored electricity in a Lead acid battery and operated through a DC motor with spray pump. Keeping in view of above facts, a research topic entitled "Development and evaluation of solar power operated Boom sprayer" is chosen.

Fig 1. Demonstrating the working of solar power operated Boom sprayer

HEAD
Department of Agricultural Engineering
Siddharth Institute of Engineering & Technology
Narayanavanam Road, PUTTUR

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Puttur -517583, Chittoor District, A.P. (India)

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2020 - 2021

1. Personal Details

Name	P.Chandanakala	Branch	ECE
Designation	Assistant Professor		
Email ID	chandana.556@gmail.com		
Mobile Number	9505854675		

2. Sector of the challenge (Please write the appropriate sector):

EMBEDDED SYSTEM

3. Synopsis of the Research Project Proposal:

Title: Accident monitoring system using Drones

UAV is defined as an aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expandable or recoverable, and can carry a lethal or nonlethal payload. It is controlled either autonomously by on-board computers or by remote control of a pilot on the ground. Its usage is currently limited by difficulties such as satellite communication and cost. A Drone has been built that can be operated by radio frequency controller and send live audio-visual feedback. The developed Drone control system has been simulated in MATLAB/Simulink. The simulation shows a very stable operation and control of the developed Drone. Microcontroller based drone control system has also been developed where a RF transmitter and receiver operating in the frequency of 2.4 GHz are used for remote operation for the Drone. Earlier, Drones were deployed for military applications such as spying on both domestic and international threats. The developed drone in this work can be used for a number of applications, such as policing, firefighting, monitoring flood effected areas, recording video footage from impassable areas and both military and non-military security work. In addition, using an Android mobile device incorporation with GPS has been used for live position tracking of Drone and real time audiovisual feedback from Drone.

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Raspberry Pi	4500/-	1	4500/-
2	Multi Rotor	1200/-	1	1200/-
3	ESC (Electronic Speed Controller)	2300/-	1	2300/-
4	Servo motor	3650/-	1	3650/-
5	LIPO Battery	3000/-	1	3000/-
6	Landing gear	920/-	1	920/-
TOTAL				15,570/-

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD/HEAD
Dept. of Electronics & Communication Engg.
Siddharth Institute of Engg. & Tech.
Narayanavanam Road, Puttur-517 583.

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Puttur -517583, Chittoor District, A.P. (India)

Project Title: Accident monitoring system using Drones

Abstract:

UAV is defined as an aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expandable or recoverable, and can carry a lethal or nonlethal payload. It is controlled either autonomously by on-board computers or by remote control of a pilot on the ground. Its usage is currently limited by difficulties such as satellite communication and cost. A Drone has been built that can be operated by radio frequency controller and send live audio-visual feedback. The developed Drone control system has been simulated in MATLAB/Simulink. The simulation shows a very stable operation and control of the developed Drone. Microcontroller based drone control system has also been developed where a RF transmitter and receiver operating in the frequency of 2.4 GHz are used for remote operation for the Drone. Earlier, Drones were deployed for military applications such as spying on both domestic and international threats. The developed drone in this work can be used for a number of applications, such as policing, firefighting, monitoring flood effected areas, recording video footage from impassable areas and both military and non-military security work. In addition, using an Android mobile device incorporation with GPS has been used for live position tracking of Drone and real time audiovisual feedback from Drone.

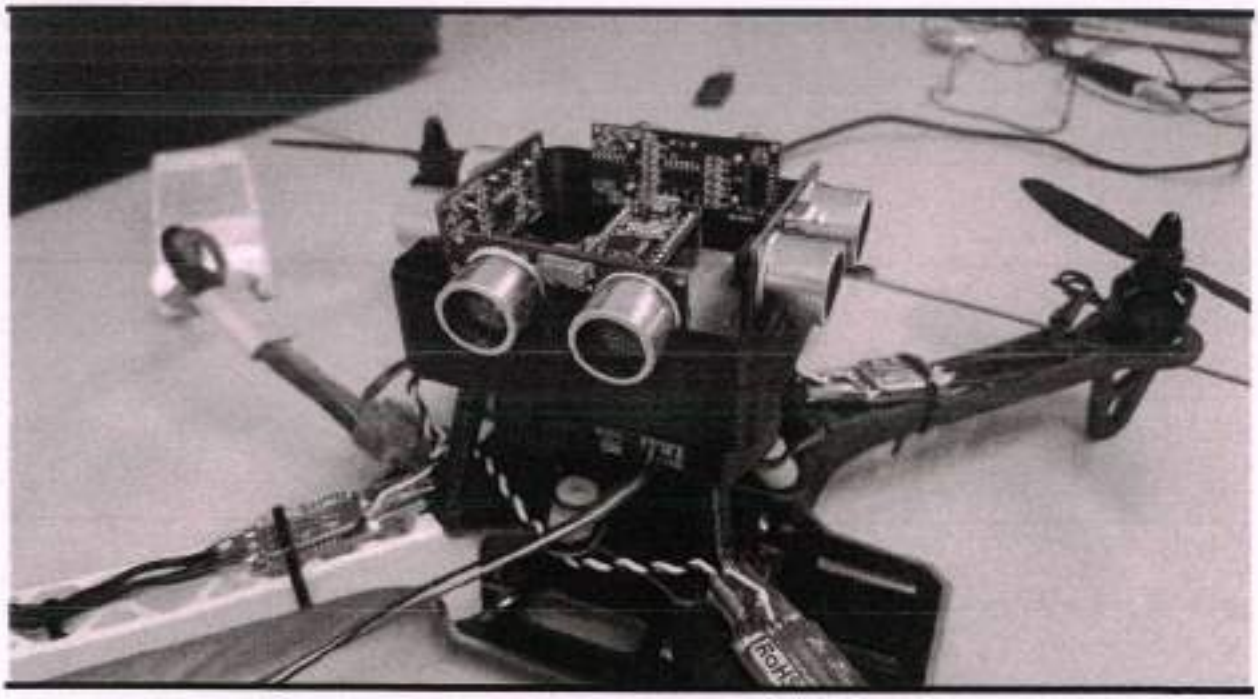

Figure: Accident monitoring system using Drones

HOD
HEAD
Dept. of Electronics & Communication Engg.
Siddharth Institute of Engg. & Tech.
Narayanavanam Road, Puttur-517 583.

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SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR- 517583, CHITTOOR DISTRICT, ANDHRA PRADESH, INDIA.

Ref No. SIETK/R&D/01/2019-20

Date: 19/08/2019

Circular

All Heads of the Departments are here by informed that R& D cell will provide the Seed Money to support faculty research activities. Kindly circulate this information to all faculty members to utilize the opportunity. Herewith the needed faculty are to submit the proposal in the following format. Last date for the proposal submission to concern department HOD is 28.08.2019.

Dean R&D
(Dr. P.G.GOPINATH)

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583 Chittoor (Dt.) A.P.

Principal
(Dr.K.CHANDRASEKHAR REDDY)

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF PROJECTS RECEIVED FOR SEEDMONEY FROM DEPARTMENTS FOR ACY 2019-2020

S.No.	Department	Title of the Project	Name of the Faculty	Estimated Cost of the Project
1	ECE	Arduino Based Smart Bike Kit	Mr.A.Rajasekar Yadav	10356
2		Robot Cafe	Mr.K.D. Mohana Sundaram	8280
3		Gesture Controlled Garbage Collector Robot	B.RaviBabu	15580
4		Smart irrigation and crop protection from wild animals using RASPBERRY PI	Ms.P.Chandanakala	14675
5		Intelligent car anti-theft system through face recognition using RASPBERRY PI and global positioning system	Mr.E.Kosalendra	15660
6		Smart crop protection system from animals and fire using ARDUINO	Mr.C.Prasad	11795
7		Animal welfare assessment and conservation of animals at zoo	Mr.R.P.V.G. Ashok Reddy	11235
8		Automatic pedestrains road crossing detection	Mr.Y.Murali	13335
9		MQTT based smart waste collection management using RASPBERRY	Mr.D. Muneendra	20530
10		Arduino Mega based PET Feeding Automation	Dr.P.G.Kuppuswamy	20220
11		Design and Implementation of Rectangular Microstrip Patch Antenna at 5GHz for Wireles N/W	Mr.J.Rajanikanth	15494
12	MBA	A Study on Technical Analysis of Select Pharmaceutical Companies Through Relative Strength in Shriram Insight Stock Brokers Ltd.., Anantapuramu	Dr.L. Kuldeepkumar	7000
13		Machine Learning and Artificial Intelligence in Marketing Applications During COVID-19 Pandemic	Dr.L. Kuldeepkumar	5000
14		A comparative study pm the performance of physical gold, gold etf's,	Mr. S.Sreenivasulu	7500
15	MCA	A Systematic Review on DAC Policy Based on Machine Learning	Mr. P. Karthikeyan	50000
22	EEE	Closed loop control of DC motor by using DSPACE 1140	Mr. P.MUNI SEKHAR	35000
23		Home automation using google voice assistance	Mrs. V.N.SARASWATHI	35000
24		Temperature Controlled DC Fan using Microcontroller	Mr.S.L.ARUN	30000
25		Arduino RC522 RFID Module based Access Control System	Mr. S.MUNI SEKHAR	25000

26		Smart Dustbin using Arduino, Ultrasonic Sensor & Servo Motor	Ms. V.MANASA	25000
27		Solar PV based water pumping using BLDC motor drive	Dr.J.GOWRI SHANKAR	20000
28	MECH	Fabrication of Electric-Powered Vehicle or Handicapped	Mr.B.Sreenivasulu	30000
29		Characterization Aluminium Based Metal Matrix Composite Reinforced with Tic and Tio2	Dr. F. Anand Raju	45000
30		Design And Fabrication of Automatic Grass Cutter by Using Solar Panel	J.Mani	35000
31		Fabrication Of Seed Ball Making Machine	Mr. K.Sudhakar	25000
32		Fabrication Of Vertical Axis Wind Turbine	Mr. V.Karthikeyan	25000
33		Design And Fabrication of Drivable Wheel Chair	Dr.C.Sreedhar	30000
34		Design and Fabrication of Prototype Voice Controlled Drone	Mr. D. Krishanaih	18000
35	CIVIL	Study on Mechanical Properties of Concrete by using Rice Husk Ash and M-Sand	Mr. B. RAJASEKHAR REDD	42000
36		Water Absorption Roads by Pervious Concrete	Mr. P. NAVEEN	30500
37		Experimental Study on Partial Replacement of Plastic Waste with Coarse Aggreagate in Concrete	Mr. A. MOHAN	32500
			Total	709660

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (DL) A.P.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

PROJECT ASSESSMENT FOR SEEDMONEY FOR ACY 2019-2020

S.No.	Department	A.C.Y	Title of the Project	Thrust area of research	Social Responsibility	Novelty of the Project	Economic Aspects	Reliability and Feasibility	Design, Analysis, Simulation	Fabrication	Creative competence	Total (Max 40 Marks)	Recommended / Not Recommended (Minimum 28 marks for Recommended)
1	ECE	2019-20	Arduino Based Smart Bike Kit	4	4	4	4	4	4	4	4	32	Recom.
2			Robot Cafe	4	3	4	4	4	4	4	4	31	Recom.
3			Gesture Controlled Garbage Collector Robot	4	3	4	4	4	4	4	4	31	Recom.
4			Smart irrigation and crop protection from wild animals using RASPBERRY PI	4	4	4	4	5	4	5	4	34	Recom.
5			Intelligent car anti-theft system through face recognition using RASPBERRY PI and global positioning system	4	4	4	3	3	3	4	4	29	Recom.
6			Smart crop protection system from animals and fire using ARDUINO	4	3	4	4	4	3	4	4	30	Recom.
7			Animal welfare assessment and conservation of animals at zoo	4	3	4	4	4	4	4	4	31	Recom.
8			Automatic pedestrains road crossing detection	4	4	4	4	5	4	4	4	33	Recom.
9			MQTT based smart waste collection management using RASPBERRY	4	4	4	4	5	4	4	4	33	Recom.
10			Arduino Mega based PET Feeding Automation	4	3	4	4	4	3	4	4	30	Recom.
11			Design and Implementation of Rectangular Microstrip Patch Antenna at 5GHz for Wireles N/W	4	4	4	4	4	4	4	4	32	Recom.
12	MBA	2019-20	A Study on Technical Analysis of Select Pharmaceutical Companies Through Relative Strength in Shriram Insight Stock Brokers Ltd.., Anantapuramu	4	3	4	4	4	4	4	4	31	Recom.
13			Machine Learning and Artificial Intelligence in Marketing Applications During COVID-19 Pandemic	4	3	4	4	4	3	4	4	30	Recom.

14			A comparative study pm the performance of physical gold, gold etf's,	4	4	4	3	3	3	3	4	28	Recom.
15	MCA	2019-20	A Systematic Review on DAC Policy Based on Machine Learning For IOT	4	4	4	4	4	4	4	4	32	Recom.
22	EEE	2019-20	Closed loop control of DC motor by using DSPACE 1140	4	3	4	4	4	3	4	4	30	Recom.
23			Home automation using google voice assistance	3	4	4	4	5	4	5	4	34	Recom.
24			Temperature Controlled DC Fan using Microcontroller	4	3	4	4	4	4	4	4	31	Recom.
25			Arduino RC522 RFID Module based Access Control System	4	4	4	4	5	4	5	4	34	Recom.
26			Smart Dustbin using Arduino, Ultrasonic Sensor & Servo Motor	4	4	4	3	3	3	4	4	29	Recom.
27			Solar PV based water pumping using BLDC motor drive	3	4	4	3	3	3	3	3	26	Not Rec.
28	MECH	2019-20	Fabrication of Electric-Powered Vehicle or Handicapped	4	4	4	3	3	3	4	4	29	Recom.
29			Characterization Aluminium Based Metal Matrix Composite Reinforced with Tic and Tio2	4	3	3	4	3	3	3	3	26	Not Rec.
30			Design And Fabrication of Automatic Grass Cutter by Using Solar Panel	4	3	4	4	4	3	4	4	30	Recom.
31			Fabrication Of Seed Ball Making Machine	4	4	4	4	5	4	4	4	33	Recom.
32			Fabrication Of Vertical Axis Wind Turbine	4	3	4	4	4	4	4	4	31	Recom.
33			Design And Fabrication of Drivable Wheel Chair									34	Recom.
34			Design and Fabrication of Prototype Voice Controlled Drone	4	4	4	3	3	3	4	4	29	Recom.
35	CIVIL	2019-20	Study on Mechanical Properties of Concrete by using Rice Husk Ash and M-Sand	4	3	4	4	4	3	4	4	30	Recom.
36			Water Absorption Roads by Pervious Concrete	4	4	4	3	3	4	4	4	30	Recom.
37			Experimental Study on Partial Replacement of Plastic Waste with Coarse Aggreagate in Concrete	4	3	4	4	4	3	4	4	30	Recom.

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF SANCTIONED PROJECTS FOR SEEDMONEY FOR ACY 2019-2020

S.No.	Dept.	Title of the Project	Name of the Faculty	Sanctioned Amount
1	ECE	Arduino Based Smart Bike Kit	Mr.A.Rajasekar Yadav	10356
2		Robot Cafe	Mr.K.D. Mohana Sundaram	8280
3		Gesture Controlled Garbage Collector Robot	B.RaviBabu	15580
4		Smart irrigation and crop protection from wild animals using RASPBERRY PI	Ms.P.Chandanakala	14675
5		Intelligent car anti-theft system through face recognition using RASPBERRY PI and global positioning system	Mr.E.Kosalendra	15660
6		Smart crop protection system from animals and fire using ARDUINO	Mr.C.Prasad	11795
7		Animal welfare assessment and conservation of animals at zoo	Mr.R.P.V.G. Ashok Reddy	11235
8		Automatic pedestrains road crossing detection	Mr.Y.Murali	13335
9		MQTT based smart waste collection management using RASPBERRY	Mr.D. Muneendra	20530
10		Arduino Mega based PET Feeding Automation	Dr.P.G.Kuppuswamy	20220
11		Design and Implementation of Rectangular Microstrip Patch Antenna at 5GHz for Wireles N/W	Mr.J.Rajanikanth	15494
12	MBA	A Study on Technical Analysis of Select Pharmaceutical Companies Through Relative Strength in Shriram Insight Stock Brokers Ltd.., Anantapuramu	Dr.L. Kuldeepkumar	7000
13		Machine Learning and Artificial Intelligence in Marketing Applications During COVID-19 Pandemic	Dr.L. Kuldeepkumar	5000
	MCA	A Systematic Review on DAC Policy Based on Machine Learning	Mr. P. Karthikeyan	50000
19	EEE	Closed loop control of DC motor by using DSPACE 1140	Mr. P.Muni Sekhar	35000
20		Home automation using google voice assistance	Mrs. V.N.Saraswathi	35000
21		Temperature Controlled DC Fan using Microcontroller	Mr.S.L.Arun	30000
22		Arduino RC522 RFID Module based Access Control System	Mr. S.Muni sekahr	25000
23		Smart Dustbin using Arduino, Ultrasonic Sensor & Servo Motor	Ms. V.Manasa	25000

24	MECH	Fabrication of Electric-Powered Vehicle or Handicapped	Mr.B.Sreenivasulu	30000
26		Design And Fabrication of Automatic Grass Cutter by Using Solar Panel	J.Mani	35000
27		Fabrication Of Seed Ball Making Machine	Mr. K.Sudhakar	25000
28		Fabrication Of Vertical Axis Wind Turbine	Mr. V.Karthikeyan	25000
29		Design And Fabrication of Drivable Wheel Chair	Dr.C.Sreedhar	30000
30		Design and Fabrication of Prototype Voice Controlled Drone	Mr. D. Krishanaih	18000
31	CIVIL	Study on Mechanical Properties of Concrete by using Rice Husk Ash and M-Sand	Mr. B. Rajasekhar Reddy	42000
32		Water Absorption Roads by Pervious Concrete	Mr. P. Naveen	30500
33		Experimental Study on Partial Replacement of Plastic Waste with Coarse Aggreagate in Concrete	Mr. A. Mohan	32500
			Total	637160

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PUTTUR - 517583,Chittoor Dist.

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Siddharth Nagar, Narayanavanam Road, Puttur – 517 583
Chittoor Dist., A.P., INDIA

SEED MONEY REQUISTION FORM

Faculty Project Proposal

Academic Year: 2019 - 2020

1. Personal Details

Name	Mr. P. Karthikeyan	**Branch**	MCA
Designation	Assistant Professor		
Email ID	karthipaneer@gmail.com		
Mobile Number	8428451985		
Category	OBC		

2. Sector of the challenge:

Machine Learning with IOT

3. Synopsis of the Research Project Proposal:

Machine learning distinguishes threats by constantly observing the behaviour of the system for anomalies. Machine learning motors process massive amounts of data in near real time to find critical episodes. These procedures allow for the detection of insider threats, obscure malware, and policy violations. The criticality of these latter comes especially from the fact that the smart articles may contain exceptionally intimate information or even may be answerable for ensuring individuals' lives. Right now, center is around access control in the IoT setting by proposing a dynamic and completely appropriated security policy Our proposal will be based, on one hand, on the idea of the blockchain to guarantee the dispersed aspect firmly prescribed in the IoT and then again on machine learning algorithms, particularly on reinforcement learning category, so as to give a dynamic, upgraded and self-adjusted security policy.

Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD
Department of Computer Applic
SIDDHARTH INSTITUTE OF ENGINEERING & TEC
Narayanavanam Road

A SYSTEMATIC REVIEW ON DAC POLICY BASED ON MACHINE LEARNING FOR IOT

[1].Gundluri Rohith, Mr. P. Karthikeyan,[2]

[1]MCA STUDENT, SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY, PUTTUR, ANDHRA PRADESH.

[2]ASSOC PROFESSOR,DEPT OF MCA, SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY,PUTTUR,ANDHRA PRADESH.

ABSTRACT

Machine learning distinguishes threats by constantly observing the behavior of the system for anomalies. Machine learning motors process massive amounts of data in near real time to find critical episodes. These procedures allow for the detection of insider threats, obscure malware, and policy violationsThe criticality of these latter comes especially from the fact that the smart articles may contain exceptionally intimate information or even may be answerable for ensuring individuals' lives. Right now, center is around access control in the IoT setting by proposing a dynamic and completely appropriated security policy Our proposal will be based, on one hand, on the idea of the blockchain to guarantee the dispersed aspect firmly prescribed in the IoT; and then again on machine learning algorithms, particularly on reinforcement learning category, so as to give a dynamic, upgraded and self-adjusted security policy.

Keywords—Internet of Things; security; access control; dynamic policy; security policy; blockchain; machine learning; reinforcement learning.

I. INTRODUCTION

Dynamic Access Control (DAC) is a brand-new feature in Windows Server 2012. DAC enables Windows administrators to tweak authorization to record server assets by applying conditional rationale based upon client/gadget claims and metadata tags. In the primary post right now five parts I will give you a diagram of DAC.

This segment is about presenting the IoT paradigm, basically from an AC perspective, and then will introduce how security arrangements are managed in the current AC models.

A. Internet of things paradigm

The Internet of things (IoT) is currently a reality that encompasses us covering several parts of our lives, and will turn out to be all the more so later on. For sure, many researches consider IoT as one of the main technological upsets of this century [1] and have moved from being a cutting edge vision to an increasing market and research reality. It was in 2008 that the world passed the barrier of a solitary associated object for each individual and the statistics are currently talking about numbers around 26 smart articles for each human being on earth by 2020 [2].

Be that as it may, the Internet of Things, and in spite of all what has been said, is as yet maturing, in particular because of various challenges which

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Puttur -517583, Chittoor District, A.P. (India)

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2019- 2020

1. Personal Details

Name	Dr. L. Kuldeepkumar	Branch	MBA
Designation	Professor		
Email ID	Kuldeep79@gmail.com		
Mobile Number	9909049496		

2. Sector of the challenge (Please write the appropriate sector)

Finance, Stock Market

3. Synopsis of the Research Project Proposal:

A Study on Technical Analysis of Select Pharmaceutical Companies Through Relative Strength in Shriram Insight Stock Brokers Ltd.., Anantapuram.

Most of the trading in the Indian stock market takes place on its two stock exchanges: the Bombay Stock Exchange (BSE) and the National Stock Exchange (NSE). Today investing in financial securities such as shares, debentures, bonds, and other financial securities are considered to be most profitable investment avenues when compared to other type of investments. However, this financial security not only ensures higher return but also bears higher risk. Therefore, the combination of these two characteristics in financial securities has created a challenging task for the investors. Hence with an object of getting success in the investment activity, the investor tries to predict the future behavior of the stocks by using technical analysis. RSI relative strength index which helps to determine the behavior of the stock and its trend based on historical (secondary) data.

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Puttur -517583, Chittoor District, A.P. (India)

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Paper	500	1	500
2	Print			2000
3	Travelling expense			3000
4	other			1500
5				
TOTAL				7,000/-

5. Declaration:

Ihereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD

Department Of Management Studies
Siddharth Institute Of Engg. & Tech
Narayanavanam Road, PUTTUR-517583

Studies in Indian Place Names
(UGC Care Journal)

ISSN: 2394-3114
Vol-40-Issue-50-March-2020

"A Study on Technical Analysis of Select Pharmaceutical Companies Through Relative Strength in Shriram Insight Stock Brokers Ltd.., Anantapuramu"

Dr.L.KULADEEP KUMAR

ASSOCIATE PROFESSOR

MBA DEPARTMENT

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY

1.1 INTRODUCTION: Most of the trading in the Indian stock market takes place on its two stock exchanges: the Bombay Stock Exchange (BSE) and the National Stock Exchange (NSE). Today investing in financial securities such as shares, debentures, bonds, and other financial securities are considered to be most profitable investment avenues when compared to other type of investments. However, this financial security not only ensures higher return but also bears higher risk. Therefore, the combination of these two characteristics in financial securities has created a challenging task for the investors. Hence with an object of getting success in the investment activity, the investor tries to predict the future behaviour of the stocks by using technical analysis. RSI relative strength index which helps to determine the behaviour of the stock and its trend based on historical (secondary)data.

1.2Technical Analysis:

Technical analysis mainly seeks to predict the short term price movements. It provides the base for decision-making in investment. Technical Analysis is one of the most frequently used yardstick tocheck &analyse underlying pricechanges.Technical analysis is helpful to general investor in many ways.It provides important &vital information regarding the current price position of the company.Technical analysis involves the use of various methods for charting, calculating & interpreting graph & chart to assess the performances & status of the price. It is the tool of financial analysis, which studies and establishes numerical & graphical relationship between the important financial factors.The focus of technical analysis is mainly on the internal market data, i.e. prices & volumedata. It appeals mainly to short term traders. It is the oldest approach to equity investment datingback to the late 19thcentury.It uses charts and computer programs to study the stock's trading volume and price movements in the hope of identifying a trend. In fact the decision made on the basis of technical analysis is done only after inferring a trend and judging the future movement of the stock on the basis of the trend. Technical Analysis assumes that the market is efficient and the price has already taken into consideration the other factors related to the company and the industry. It is because of this assumption that many investors think technical analysis is a tool, which is effective for short-term investing.

Technical Analysis as a tool of investment for the average investor thrived in the late Nineteenth century when Charles Dow, then editor of the Wall Street Journal, proposed the Dow Theory. He recognized that the movement is caused by the action/reaction of the people dealing in stocks rather than the news in itself.

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SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR- 517583, CHITTOOR DISTRICT, ANDHRA PRADESH, INDIA.

Ref No. SIETK/R&D/01/2018-19

Date: 27/06/2018

Circular

All Heads of the Departments are here by informed that R& D cell will provide the Seed Money to support faculty research activities. Kindly circulate this information to all faculty members to utilize the opportunity. Herewith the needed faculty are to submit the proposal in the following format. Last date for the proposal submission to concern department HOD is 07.07.2018.

Dean R&D

(Dr. P.RATNAKAMALA)

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor (DL) A.P.

Principal

(Dr.K.CHANDRASEKHAR REDDY)

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Copy to:

All HODs

R&D file

Principal file

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF PROJECTS RECEIVED FOR SEEDMONEY FROM DEPARTMENTS FOR ACY 2018-2019

S.No.	Department	Title of the Project	Name of the Faculty	Estimated Cost of the Project
1	ECE	Smart Glasses For Blind People	Mr.Y.Murali	19820
2		Dual Axis Solar Tracking System	Mr.U.Sreenivasulu	20055
3		Smart Cradle	Dr.P.Ratna Kamala	20530
4		Multipurpose Agriculture Robot	Mrs.V.Latha	20055
5		Kitchen Automation	Ms.Chandanakala	14503
6		A Standalone Embedded System For Accident Prevention At Blind Turns	Mr.Murali krishna	19582
7	EEE	IOT on live health monitoring	Mrs.T.J.DEEPTHI	40000
8		Automatic solar tracking system by using ARDUINO	Mr. J. YUGANDHAR	25000
9		Automatic electricity meter reading via SMS through GSM module	Ms. V.MANASA	25000
10		Stepper Motor Control using 8051 Microcontroller	Mrs.R.LAKSHMI	25000
11		Pv Controlled Servo Motor using Arduino, HC-05 Bluetooth Module	Mr.K.MANI	20000
12		Water Level Controller using 8051 Microcontroller	Mr. P.MUNI SEKHAR	25000
13		Bluetooth Controlled Servo Motor using Arduino, HC-05 Bluetooth Module Arduino UNO	Mr.P.CHANDRA SEKHAR	25000
14		IOT based irrigation monitoring and controlling system	Ms.K.SONIYA	20000
15	MECH	Experimental Investigations on mechanical properties of plastic bricks	Dr.S.Sunil Kumar Reddy	18000
16		Design and Fabrication of manual seed sowing machine	Dr.C.Prabhu Rama Krishnan	17500
17		Design and fabrication of lifting house hold items to any multi storage	Mr.B.Sreenivasulu	13000
18		Design & Manufacturing of multipurpose seed sowing machine	Mrs. A.Asha	30000
19		Fabrication of powder spraying machine in Seri culture	Mr. K.Sudhakar	20000
20		Fabrication of solar powered air bike	Mr. L.Shankar	35000
21		Automatic wall plastering machine	Dr.C.Prabhu rama Krishnan	27000
22		Design & Fabrication of traditional Indian snack machine	Dr. C.Sreedhar	25000

23	CIVIL	Study of Mechanical Properties of M25 concrete made with ceramic powder as partial replacement of Cement	Mrs. S. PRANAVI	43000
24		A Study on Properties of Concrete by Replacing Natural Sand with M-Sand & Quarry Dust at Different Sizes of Coarse Aggregate	Dr. K. CHANDRASEKHAR R	35000
25		Treatment of Tap Water, Sullage water and Textile Waste Water using Various Activated Carbons	Dr. G. PRABHAKARAN	28000
			Total	611045

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RESEARCH & DEVELOPMENT

PROJECT ASSESSMENT FOR SEEDMONEY FOR ACY 2018-2019

S.No.	Department	Title of the Project	Thrust area of research	Social Responsibility	Novelty of the Project	Economic Aspects	Reliability and Feasibility	Design, Analysis, Simulation	Fabrication	Creative competence	Total (Max 40 Marks)	Recommended / Not Recommended (Minimum 28 marks for Recommended)
1	ECE	Smart Glasses For Blind People	4	4	4	3	3	4	4	3	29	Recom.
2		Dual Axis Solar Tracking System	4	3	4	4	4	3	4	4	30	Recom.
3		Smart Cradle	4	3	4	4	4	3	4	4	30	Recom.
4		Multipurpose Agriculture Robot	4	4	4	4	5	4	4	4	33	Recom.
5		Kitchen Automation	4	3	4	4	4	4	4	4	31	Recom.
6		A Standalone Embedded System For Accident Prevention At Blind Turns	4	4	4	4	5	4	5	4	34	Recom.
7	EEE	IOT on live health monitoring	4	4	4	3	3	4	4	3	29	Recom.
8		Automatic solar tracking system by using ARDUINO	4	3	4	4	4	3	4	4	30	Recom.
9		Automatic electricity meter reading via SMS through GSM module	4	3	4	4	4	3	4	4	30	Recom.
10		Stepper Motor Control using 8051 Microcontroller	4	3	4	4	4	3	4	4	30	Recom.
11		Pv Controlled Servo Motor using Arduino, HC-05 Bluetooth Module	4	4	4	4	4	4	4	4	32	Recom.
12		Water Level Controller using 8051 Microcontroller	4	3	4	4	4	4	4	4	31	Recom.
13		Bluetooth Controlled Servo Motor using Arduino, HC-05 Bluetooth Module Arduino UNO	4	3	4	4	4	4	4	4	31	Recom.
14		IOT based irrigation monitoring and controlling system	3	3	3	2	2	3	4	4	24	Not Rec.

15	MECH	Experimental Investigations on mechanical properties of plastic bricks	4	4	4	3	3	4	4	3	29	Recom.
16		Design and Fabrication of manual seed sowing machine	4	3	4	4	4	3	4	4	30	Recom.
17		Design and fabrication of lifting house hold items to any multi storage	4	3	4	4	4	4	4	4	31	Recom.
18		Design & Manufacturing of multipurpose seed sowing machine	4	4	4	4	4	4	4	5	33	Recom.
19		Fabrication of powder spraying machine in Seri culture	5	4	4	4	4	4	4	4	33	Recom.
20		Fabrication of solar powered air bike	3	3	3	4	4	3	3	3	26	Not Rec.
21		Automatic wall plastering machine	4	4	4	4	4	4	4	4	32	Recom.
22		Design & Fabrication of traditional Indian snack machine	4	3	4	4	4	4	4	4	31	Recom.
23	CIVIL	Study of Mechanical Properties of M25 concrete made with ceramic powder as partial replacement of Cement	4	3	4	4	4	3	4	4	30	Recom.
24		A Study on Properties of Concrete by Replacing Natural Sand with M-Sand & Quarry Dust at Different Sizes of Coarse Aggregate	4	3	3	4	4	3	3	4	28	Recom.
25		Treatment of Tap Water, Sullage water and Textile Waste Water using Various Activated Carbons	3	3	3	4	4	3	3	2	25	Not Rec.

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RESEARCH & DEVELOPMENT

LIST OF SANCTIONED PROJECTS FOR SEEDMONEY FOR ACY 2018-2019

S.No.	Dept.	Title of the Project	Name of the Faculty	Sanctioned Amount
1	ECE	Smart Glasses For Blind People	Mr.Y.Murali	19820
2		Dual Axis Solar Tracking System	Mr.U.Sreenivasulu	20055
3		Smart Cradle	Dr.P.Ratna Kamala	20530
4		Multipurpose Agriculture Robot	Mrs.V.Latha	20055
5		Kitchen Automation	Ms.Chandanakala	14503
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7	EEE	IOT on live health monitoring	Mrs.T.J.Deepthi	40000
8		Automatic solar tracking system by using ARDUINO	Mr. J. Yugandhar	25000
9		Automatic electricity meter reading via SMS through GSM module	Ms. V.Manasa	25000
10		Stepper Motor Control using 8051 Microcontroller	Mrs.R.Lakshimi	25000
11		PV Controlled Servo Motor using Arduino, HC-05 Bluetooth Module	Mr.K.Mani	20000
12		Water Level Controller using 8051 Microcontroller	Mr. P.Muni Sekahr	25000
13		Bluetooth Controlled Servo Motor using Arduino, HC-05 Bluetooth Module Arduino UNO	Mr.P.Chandra Sekhar	25000
14	MECH	Experimental Investigations on mechanical properties of plastic bricks	Dr.S.Sunil Kumar Reddy	18000
15		Design and Fabrication of manual seed sowing machine	Dr.C.Prabhu Rama Krishnan	17500
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17		Design & Manufacturing of multipurpose seed sowing machine	Mrs. A.Asha	30000
18		Fabrication of powder spraying machine in Seri culture	Mr. K.Sudhakar	20000
19		Fabrication of solar powered air bike	Mr. L.Shankar	35000
20		Automatic wall plastering machine	Dr.C.Prabhu rama Krishnan	27000
21		Design & Fabrication of traditional Indian snack machine	Dr. C.Sreedhar	25000
22	CIVIL	Study of Mechanical Properties of M25 concrete made with ceramic powder as partial replacement of Cement	Mrs. S. Pranavi	43000
23		A Study on Properties of Concrete by Replacing Natural Sand with M-Sand & Quarry Dust at Different Sizes of Coarse Aggregate	Dr. K. Chandrasekhar reddy	35000
			Total	563045

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)

Siddharth Nagar, Narayanavanam Road, Puttur- 517583

Chittoor District, Andhra Pradesh, India.

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2018 - 2019

1. Personal Details:

Name	Ms. V.MANASA	Branch	EEE
Designation	Assistant professor		
Email ID	v.manasareddy643@gmail.com		
Mobile Number	9133640358		

2. Sector of the challenge (Please write the appropriate sector)

E-METERING

3. Synopsis of the Research Project Proposal:

- The technology of e-metering (Electronic Metering) has gone through rapid technological advancements and there is increased demand for a reliable and efficient Automatic Meter Reading (AMR) system. The proposed system replaces traditional meter reading methods and enables remote access of existing energy meter by the energy provider. Also they can monitor the meter readings regularly without the person visiting each house.
- A GSM based wireless communication module is integrated with electronic energy meter of each entity to have remote access over the usage of electricity. A PC with a GSM receiver at the other end, which contains the database acts as the billing point. Live meter reading from the GSM enabled energy meter is sent back to this billing point periodically and these details are updated in a central database.

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Arduino GSM Module	5000/- 5000/-	1	25,000/-
2	16x2 LCD	2500/-	1	
3	Analogue Electricity Energy Meter Opto coupler 4n35	2000/- 500/-	1	
4	• Resistors • POT • Connecting wires • Bulb and holder • SIM card • Power supply	6000/-	1	
5	• Mobile Phone	4000/-	1	

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

V. Manisha

Signature of the Faculty

HOD

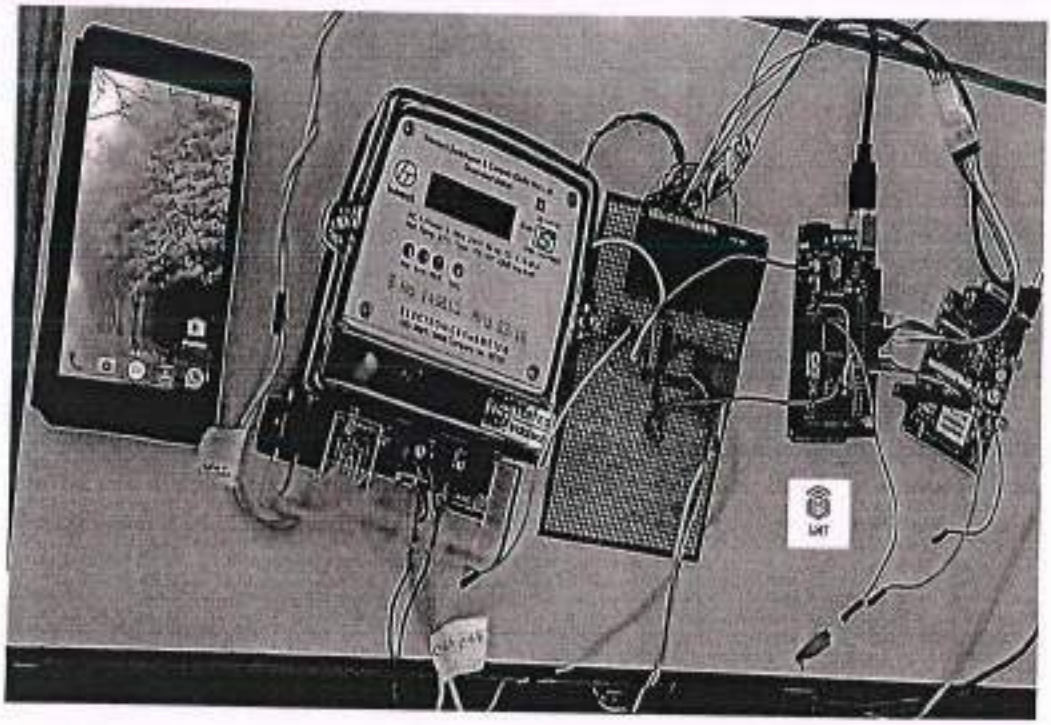
Dept. of Electrical & Electronics Engineering
Siddhartha Institute of Engineering & Technology
Sibyala Nagar, Narayanavanam Road
PUTTUR-517 583, Chittoor (Dist), A.P.

SIDDHARTH INSTITUTE OFENGINEERING& TECHNOLOGY:PUTTUR
(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
Siddharth Nagar, Narayanavanam Road, Puttur- 517583
Chittoor District, Andhra Pradesh, India.

Name	Ms. V.MANASA

ABSTRACT:

- The technology of e-metering (Electronic Metering) has gone through rapid technological advancements and there is increased demand for a reliable and efficient Automatic Meter Reading (AMR) system. The proposed system replaces traditional meter reading methods and enables remote access of existing energy meter by the energy provider. Also they can monitor the meter readings regularly without the person visiting each house.
- A GSM based wireless communication module is integrated with electronic energy meter of each entity to have remote access over the usage of electricity. A PC with a GSM receiver at the other end, which contains the database acts as the billing point. Live meter reading from the GSM enabled energy meter is sent back to this billing point periodically and these details are updated in a central database.



Automatic electricity meter reading via SMS through GSM module

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)
(Accredited by NBA for Civil, EEE, Mech., ECE & CSE, Accredited by NAAC with 'A' Grade)
Puttur -517583, Chittoor District, A.P. (India)

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2018 - 2019

1. Personal Details

Name	Mrs.V.Latha	Branch	ECE
Designation	Assistant Professor		
Email ID	latha123.btech@gmail.com		
Mobile Number	94907521456		

2. Sector of the challenge (Please write the appropriate sector):

EMBEDDED SYSTEM

3. Synopsis of the Research Project Proposal:

Title- Multipurpose Agriculture Robot

Abstract- The paper presents about the multiple agricultural tasks done by the single robot. To develop the efficiency of the agricultural tasks we have to find the new ways. This project deals with a novel approach for cultivating lands in very efficient way. The distinctiveness of this agriculture robot system is it is multitasking abilities which can drill, pick and place, seeding, pumping water & fertilizers, weather monitoring to work in both agriculture, afforestation and gardening platform. A multipurpose robot was designed to perform several tasks such as spraying and weeding in a greenhouse. Several operations were conducted by adding or removing sensing components, replacing actuator(s) and switching control software, with little or no change of the platform. A sliding mode control was applied to control motion of the robot in light of its kinematic model.

The project aim is design, development and the fabrication of the robot which can dig soil, put seeds, roller to close the mud and sprayer to spray water, this whole system of robot works with the help of battery and solar power. More than 40% of the population in the world chooses agriculture as the primary occupation, in recent years the development of the autonomous vehicles in the agriculture has experienced increased interest.

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Solar Panel 12v	6376/--	1	6376/--
2	Charging controller	3500/-	1	3500/-
3	RF transmitter	1300/-	1	1300/-
4	RF receiver	1300/-	1	1300/-
5	Relay switch	500/-	1	500/-
6	Lead acid battery 12v	3100/-	1	3100/-
7	DC motor	1800/-	3	5400/-
8	Water pump	2570/-	1	2570/-
TOTAL				24,046 /-

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD
Dept. of Electronics & Communication Engg.
Siddharth Institute of Engg. & Tech.
Narayanavanam Road, Puttur-517 583.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)
(Accredited by NBA for Civil, EEE, Mech., ECE & CSE, Accredited by NAAC with 'A' Grade)
Puttur -517583, Chittoor District, A.P. (India)

Project Title: Multipurpose Agriculture Robot

Abstract:

The paper presents about the multiple agricultural tasks done by the single robot. To develop the efficiency of the agricultural tasks we have to find the new ways. This project deals with a novel approach for cultivating lands in very efficient way. The distinctiveness of this agriculture robot system is it is multitasking abilities which can drill, pick and place, seeding, pumping water & fertilizers, weather monitoring to work in both agriculture, afforestation and gardening platform. A multipurpose robot was designed to perform several tasks such as spraying and weeding in a greenhouse. Several operations were conducted by adding or removing sensing components, replacing actuator(s) and switching control software, with little or no change of the platform. A sliding mode control was applied to control motion of the robot in light of its kinematic model.

The project aim is design, development and the fabrication of the robot which can dig soil, put seeds, roller to close the mud and sprayer to spray water, this whole system of robot works with the help of battery and solar power. More than 40% of the population in the world chooses agriculture as the primary occupation, in recent years the development of the autonomous vehicles in the agriculture has experienced increased interest.

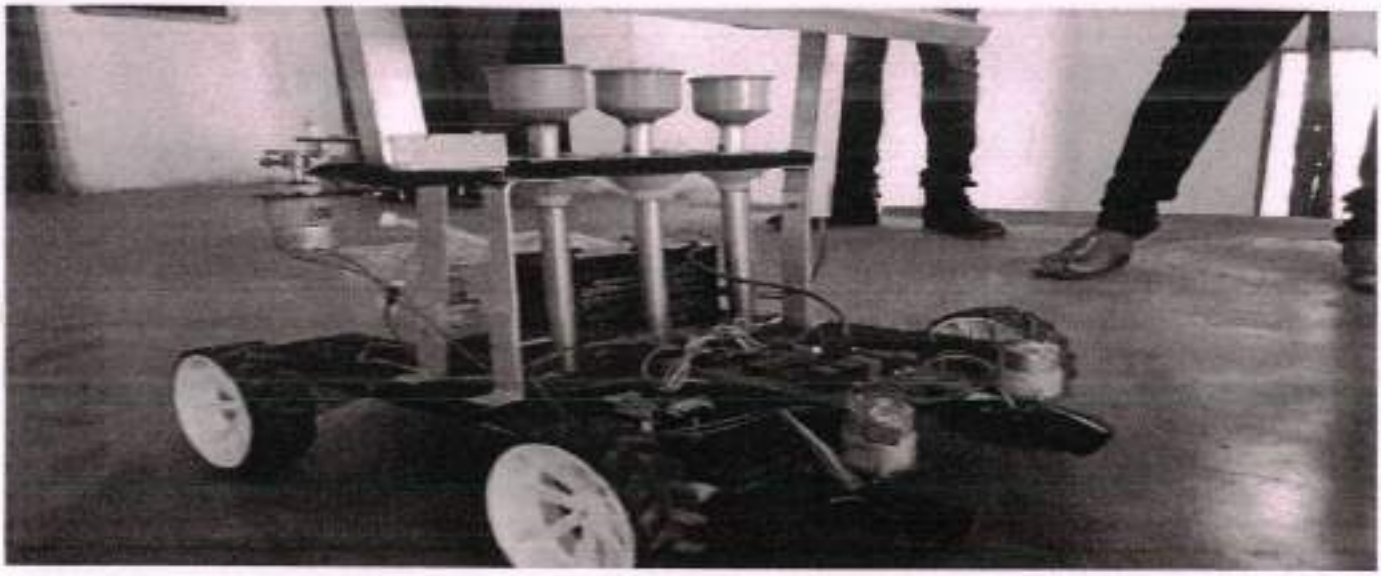


Figure: Multipurpose Agriculture Robot

HEAD
Dept. of Electronics & Communication Engg.
Siddharth Institute of Engg. & Tech.
Narayanavanam Road, Puttur-517 583.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR- 517583, CHITTOOR DISTRICT, ANDHRA PRADESH, INDIA.

Ref No. SIETK/R&D/01/2017-18

Date: 24/07/2017

Circular

All Heads of the Departments are here by informed that R& D cell will provide the Seed Money to support faculty research activities. Kindly circulate this information to all faculty members to utilize the opportunity. Herewith the needed faculty are to submit the proposal in the following format. Last date for the proposal submission to concern department HOD is 03.08.2017.

Dean R&D

(Dr. P.RATNAKAMALA)
Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

Principal

(Dr.K.CHANDRASEKHAR REDDY)
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583,Chittoor Dist.

Copy to:

All HODs

R&D file

Principal file

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF PROJECTS RECEIVED FOR SEEDMONEY FROM DEPARTMENTS FOR ACY 2017-2018

S.No.	Department	Title of the Project	Name of the Faculty	Estimated Cost of the Project
1	CSE	A Novel implementation of patient monitoring in Rural areas using	Mr.D.Sainath	10869
2		Color based pattern lock system	Mr.B.Pavan Kumar	10869
3		Enhancing Indian E-commerce	Mr.K.V.S.K.Prakash	10869
4		Accident detection using android smart phone	Mr.B.Ravindra Naik	10869
5	ECE	Smart Shopping Trolley	Mrs.SB.Ranjani	8815
6		Smart Door Bell	Dr.P.Ratna Kamala	11135
7		AI Home	Mr.P.Pavan Kumar	15329
8		Automatic Engine Locking System For Drunken And Drivers	Mr.D.Madhu	9592
9		Voice controlled HOME AUTOMATION	Mr.Janardhana Raju	20145
10		RFID based TOLL collection system using ARDUINO	Mr.G.Sasi	7790
11		Automated self-cleaning SOLAR PANEL	Mr.Janardhana Raju	12060
12		Raspberry Pi reader for BLIND	M.Niraja	11185
13		Fingerprint based electronic Voting machine	Mrs.Sai Kusma	6335
14	EEE	Automatic power factor correction and alert using GSM module	Mrs. C.R.HEMAVATHI	20000
15		Transformer health monitoring system using IOT& GSM	Dr. N.RAMESH RAJU	20000
16		Home automation using internet of things	Dr.K. KARUNANIDHI	23000
17		Iot Based Solar Hybrid Inverter With Voltage Monitoring	Mr.M. SUBRAMANYAM	20000
18		Comparative study of P&O and incremental conductance MPPT method for photo voltaic system	Mr. J. YUGANDHAR	20000
19		Transient stability improvement of multi-machine power system using Fuzzy controlled TCSC	Mr. S. MUNI SEKHAR	25000
20		Speed Control of DC Motor Using Pulse Width Modulation	Mr.K.MANI	22000
21		Transmission line fault detection using GSM technology	Mr.P.MUNI SEKHAR	20000

22	MECH	Investigation on bio-composite material in bone setting	Mr.B.Anandan	20000
23		Production and testing of plastic oils in DI Diesel engine	Dr.S.Sunil Kumar Reddy	22000
24		Fabrication of Solar power operated pesticide sprayer	Dr.C.Prabhu Rama Krishnan	18000
25		Investigation on performance analysis of solar water heater with copper and aluminium chips as porous medium	Mr.A.T.Praveenkumar	22500
26		Design and fabrication of soil tiller	Mr.P.Kesavulu	29000
27		Fabrication of eddy current braking system	Dr.D.Subramanyam	20000
28	CIVIL	Study of Strength Characteristics of Self Curing Concrete using SAP	Prof C. Sivakumar prasad	35000
29		Treatment of Swelling Soils by using Ground Granulated Blast Furnace Slag (GGBS)	Mr. J.K Elumalai	25000
30		Stabilization of Expansive Soils by using Plastic Powder	Dr. G. Prabhakaran	35000
31		Mechanical Behaviour of Concrete made with GGBS and Quarry Dust	Dr. K. Chandrasekhar reddy	40000
			Total	582362

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

PROJECT ASSESSMENT FOR SEEDMONEY FOR ACY 2017-2018

S.No.	Department	Title of the Project	Thrust area of research	Social Responsibility	Novelty of the Project	Economic Aspects	Reliability and Feasibility	Design, Analysis, Simulation	Fabrication	Creative competence	Total (Max 40 Marks)	Recommended / Not Recommended (Minimum 28 marks for Recommended)
1	CSE	A Novel implementation of patient monitoring in Rural areas using	4	4	4	4	3	4	4	3	30	Recom.
2		Color based pattern lock system	4	4	4	4	4	4	4	4	32	Recom.
3		Enhancing Indian E-commerce	3	4	4	4	4	4	5	4	31	Recom.
4		Accident detection using android smart phone	3	3	3	4	4	3	3	3	26	Not Rec.
5	ECE	Smart Shopping Trolley	4	4	4	5	4	4	5	4	34	Recom.
6		Smart Door Bell	3	3	3	4	4	4	4	4	29	Recom.
7		AI Home	4	4	4	4	3	4	4	3	30	Recom.
8		Automatic Engine Locking System For Drunken And Drivers	3	4	4	4	4	4	5	4	31	Recom.
9		Voice controlled HOME AUTOMATION	4	4	4	5	4	4	4	4	33	Recom.
10		RFID based TOLL collection system using ARDUINO	4	4	4	4	3	4	4	3	30	Recom.
11		Automated self-cleaning SOLAR PANEL	3	3	3	3	4	4	4	4	28	Recom.
12		Raspberry Pi reader for BLIND	3	4	4	4	4	4	5	4	31	Recom.
13		Fingerprint based electronic Voting machine	4	4	4	4	4	4	5	4	33	Recom.
14		Automatic power factor correction and alert using GSM module	3	3	3	3	4	4	4	4	28	Recom.
15		Transformer health monitoring system using IOT& GSM	4	4	4	4	4	4	4	4	32	Recom.
16		Home automation using internet of things	3	3	3	4	4	4	4	4	29	Recom.
17		Iot Based Solar Hybrid Inverter With Voltage Monitoring	4	4	4	4	3	4	4	3	30	Recom.

18	EEE	Comparative study of P&O and incremental conductance MPPT method for photo voltaic system	4	4	4	4	3	4	4	3	30	Recom.
19		Transient stability improvement of multi-machine power system using Fuzzy controlled TCSC	4	4	4	4	4	4	5	4	33	Recom.
20		Speed Control of DC Motor Using Pulse Width Modulation	3	4	4	4	4	4	5	4	31	Recom.
21		Transmission line fault detection using GSM technology	3	3	3	4	4	3	4	3	27	Not Rec.
22	MECH	Investigation on bio-composite material in bone setting	3	3	3	4	4	4	4	4	29	Recom.
23		Production and testing of plastic oils in DI Diesel engine	4	4	4	4	3	4	4	3	30	Recom.
24		Fabrication of Solar power operated pesticide sprayer	4	4	4	4	4	4	4	4	32	Recom.
25		Investigation on performance analysis of solar water heater with copper and aluminium chips as porous medium	4	4	4	4	3	4	4	4	31	Recom.
26		Design and fabrication of soil tiller	4	4	4	4	3	4	4	3	30	Recom.
27		Fabrication of eddy current braking system	3	3	3	3	4	4	4	4	28	Recom.
28	CIVIL	Study of Strength Characteristics of Self Curing Concrete using SAP	4	4	4	4	4	4	4	4	32	Recom.
29		Treatment of Swelling Soils by using Ground Granulated Blast Furnace Slag (GGBS)	3	3	3	3	4	4	3	4	27	Not Rec.
30		Stabilization of Expansive Soils by using Plastic Powder	4	4	4	4	3	4	4	3	30	Recom.
31		Mechanical Behaviour of Concrete made with GGBS and Quarry Dust	4	4	4	4	3	4	4	3	30	Recom.

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF SANCTIONED PROJECTS FOR SEEDMONEY FOR ACY 2017-2018

S.No.	Dept.	Title of the Project	Name of the Faculty	Sanctioned Amount
1	CSE	A Novel implementation of patient monitoring in Rural areas using IoT	Mr.D.Sainath	10869
2		Color based pattern lock system	Mr.B.Pavan Kumar	10869
3		Enhancing Indian E-commerce	Mr.K.V.S.K.Prakash	10869
4	ECE	Smart Shopping Trolley	Mrs.SB.Ranjani	8815
5		Smart Door Bell	Dr.P.Ratna Kamala	11135
6		AI Home	Mr.P.Pavan Kumar	15329
7		Automatic Engine Locking System For Drunken And Drivers	Mr.D.Madhu	9592
8		Voice controlled HOME AUTOMATION	Mr.Janardhana Raju	20145
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11		Raspberry Pi reader for BLIND	M.Niraja	11185
12		Fingerprint based electronic Voting machine	Mrs.Sai Kusma	6335
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16		Iot Based Solar Hybrid Inverter With Voltage Monitoring	Mr.M. Subramanyam	20000
17		Comparative study of P&O and incremental conductance MPPT method for photo voltaic system	Mr. J. Yugandhar	20000
18		Transient stability improvement of multi-machine power system using Fuzzy controlled TCSC	Mr. S. Muni Sekhar	25000
19		Speed Control of DC Motor Using Pulse Width Modulation	Mr.K.Mani	22000
20		Investigation on bio-composite material in bone setting	Mr.B.Anandan	20000
21		Production and testing of plastic oils in DI Diesel engine	Dr.S.Sunil Kumar Reddy	22000
22		Fabrication of Solar power operated pesticide sprayer	Dr.C.Prabhu Rama Krishnan	18000

23	MECH	Investigation on performance analysis of solar water heater with copper and aluminium chips as porous medium	Mr.A.T.Praveenkumar	22500
24		Design and fabrication of soil tiller	Mr.P.Kesavulu	29000
25		Fabrication of eddy current braking system	Dr.D.Subramanyam	20000
26	CIVIL	Study of Strength Characteristics of Self Curing Concrete using SAP	Prof C. Sivakumar prasad	35000
27		Stabilization of Expansive Soils by using Plastic Powder	Dr. G. Prabhakaran	35000
28		Mechanical Behaviour of Concrete made with GGBS and Quarry Dust	Dr. K. Chandrasekhar reddy	40000
			Total	526493

Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
Siddharth Nagar, Narayanavanam Road, Puttur- 517583
Chittoor District, Andhra Pradesh, India.

Seed Money Requisition Form
Faculty Project Proposal
A.C.Y. 2017- 2018

1. Personal Details

Name	Mr.D.Sainath	Branch	CSE
Designation	Assistant Professor		
Email ID	sainath.neem@gmail.com		
Mobile Number	8374093311		
Category	General / OBC / SC / ST / Others		

2. Sector of the challenge (Please write the appropriate sector)

IoT

3. Synopsis of the Research Project Proposal:

A Novel implementation of patient monitoring in Rural areas using IoT technology

Now a day's there is a rapid growth in technology. In the modern health care environment, the usage of IOT technologies brings convenience of physicians and patients since they are applied to various medical areas. The development of this new technology in healthcare applications without considering security makes patient privacy vulnerable. In this paper at first we highlight the major security requirements while storing the patient information in the cloud. Through IOT Doctor's Treatment suggestions, the patient updated treatment information will be directly stored in the cloud. In order to achieve effective for storing the information in cloud we provide secure communication protocols. We also propose a secure IOT based on sensors used in modern healthcare.

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1.	Oracle	10,869	1	10,869

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD

HEAD OF THE DEPARTMENT
Department of Computer Science & Engg.
Siddharth Institute of Engg. & Technology
PUTTUR-517 583.

9. RESULTS

SCREEN-1

SIGN IN

Doctor need to provide treatment for the patient according to the data stored in the fire base. For that first doctor needs to register in the application with their ID. Then doctor will sign in with their E-mail ID and password.

Fig Sign In

Screen-2

Doctor Authentication

Doctor can be authenticated by sending an OTP to his mobile as follows..

Fig Doctor Authentication

'een-3

iis screen we have two types lists such as emergency and normal list. The list can be ded based the sensed details of the patient. If the values exceed the normal range then will store under emergency list. Otherwise they will be under normal list.

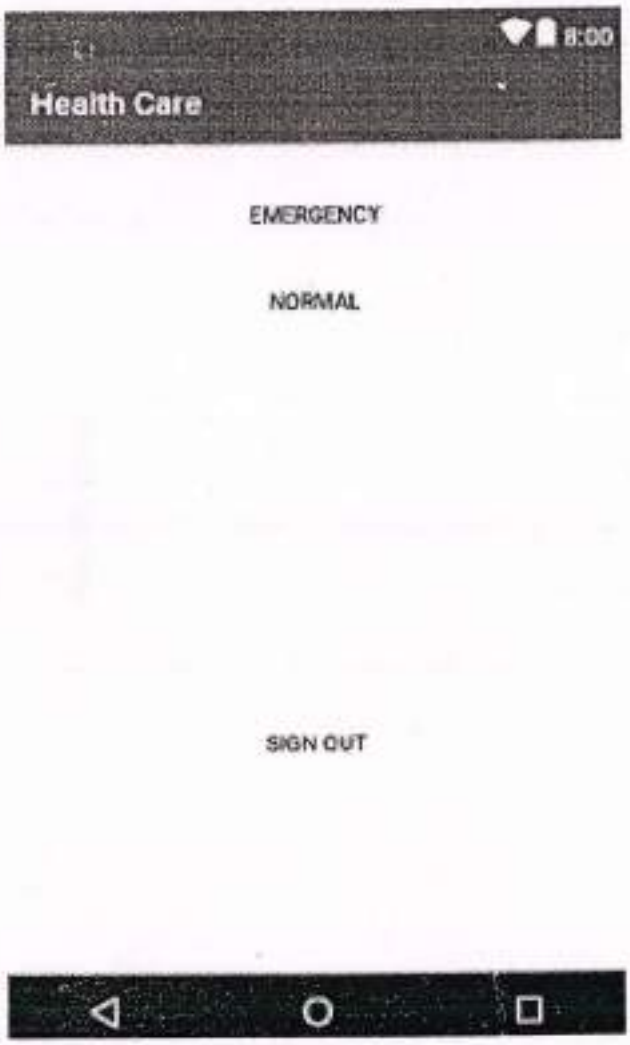

Fig Representation of labels

stly Doctor will provide prescription to the patients who are there in emergency list.

en he will give prescription to the normal list people.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by AICTE, New Delhi& Affiliated to JNTUA, Ananthapuramu)
(Accredited by N8A for Civil, EEE, Mech., ECE & CSE, Accredited by NAAC with 'A' Grade)
Puttur -517583, Chittoor District, A.P. (India)

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2017- 2018

1. Personal Details

Name	Mrs.Sai Kusma	Branch	ECE
Designation	Assistant Professor		
Email ID	saikusmaece67@gmail.comgmail.com		
Mobile Number	8591876521		

2. Sector of the challenge (Please write the appropriate sector):

IOT

3. Synopsis of the Research Project Proposal:

Title: Fingerprint based electronic Voting machine

It has always been an arduous task for the election commission to conduct free and fair polls in our country, the largest democracy in the world. Crores of rupees have been spent on this to make sure that the elections are riot free. But, now- a -days it has become common for some forces to indulge in rigging which may eventually lead to a result contrary to the actual verdict given by the People. This paper aims to present a new voting system employing biometrics in order to avoid rigging and to enhance the accuracy and speed of the process. The system uses thumb impression for voter identification as we know that the thumb impression of every human being has a unique pattern. Thus it would have an edge over the present day voting systems. As a pre-poll procedure, a database consisting of the thumb impressions of all the eligible voters in a constituency is created. During elections, the thumb impression of a voter is entered as input to the system. This is then compared with the available records in the database. If the particular pattern matches with any one in the available record, access to cast a vote is granted. But in case the pattern doesn't match with the records of the database or in case of repetition, access to cast a vote is denied or the vote gets rejected. Also the police station nearby to the election poll booth is informed about the identity of the imposter.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
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(Accredited by NBA for Civil, EEE, Mech., ECE & CSE, Accredited by NAAC with 'A' Grade)
Puttur -517583, Chittoor District, A.P. (India)

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Arduino UNO	2570/-	1	2570/-
2	Buzzor	300/-	1	300/-
3	Keypad	600/-	1	600/-
4	Wi-Fi Module	1100/-	1	1100/-
5	Power supply	345/-	1	345/-
6	LCD display	370/-	1	370/-
7	Fingerprint sensor	750/-	1	750/-
8	Connecting cables	300/-	5	300/-
TOTAL				6335/-

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

HOD

HEAD
Dept. of Electronics & Communication En
Siddharth Institute of Engg. & Tec
Narayanavanam Road, Puttur-517 583

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)
(Accredited by NBA for Civil, EEE, Mech., ECE & CSE, Accredited by NAAC with 'A' Grade)
Puttur -517583, Chittoor District, A.P. (India)

Project Title: Fingerprint based electronic Voting machine

Abstract:

It has always been an arduous task for the election commission to conduct free and fair polls in our country, the largest democracy in the world. Crores of rupees have been spent on this to make sure that the elections are riot free. But, now- a -days it has become common for some forces to indulge in rigging which may eventually lead to a result contrary to the actual verdict given by the People. This paper aims to present a new voting system employing biometrics in order to avoid rigging and to enhance the accuracy and speed of the process. The system uses thumb impression for voter identification as we know that the thumb impression of every human being has a unique pattern. Thus it would have an edge over the present day voting systems. As a pre-poll procedure, a database consisting of the thumb impressions of all the eligible voters in a constituency is created. During elections, the thumb impression of a voter is entered as input to the system. This is then compared with the available records in the database. If the particular pattern matches with any one in the available record, access to cast a vote is granted. But in case the pattern doesn't match with the records of the database or in case of repetition, access to cast a vote is denied or the vote gets rejected. Also the police station nearby to the election poll booth is informed about the identity of the imposter.

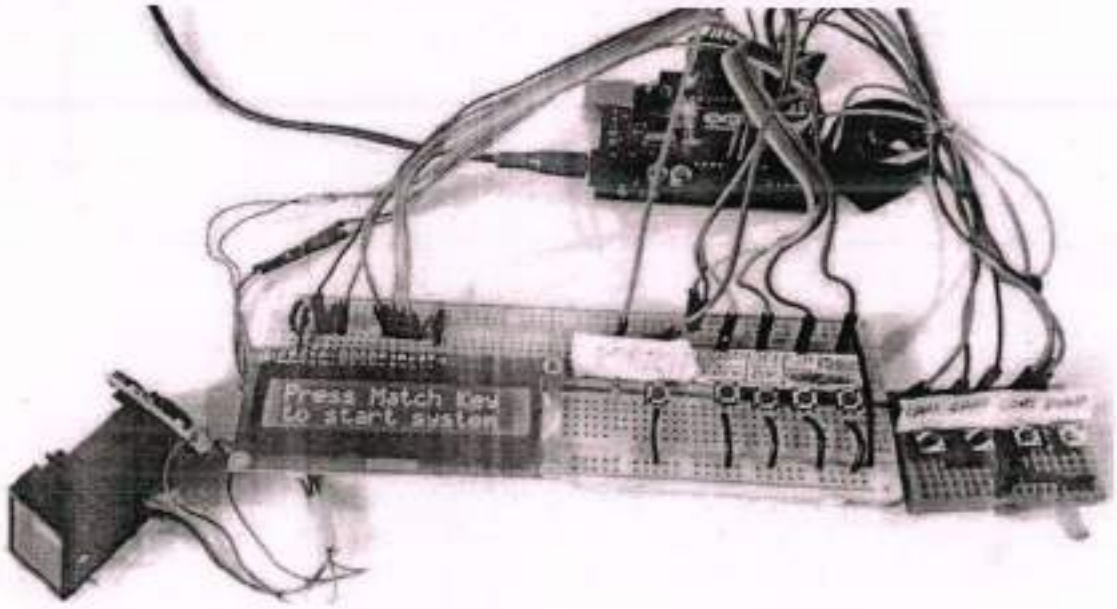

Figure: Raspberry Pi reader for BLIND

HOD
HEAD
Dept. of Electronics & Communication
Siddharth Institute of Engg. &
Narayanavanam Road, Puttur-517 583.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR- 517583, CHITTOOR DISTRICT, ANDHRA PRADESH, INDIA.

Ref No. SIETK/R&D/01/2016-17 Date: 04/07/2016

Circular

All Heads of the Departments are here by informed that R& D cell will provide the Seed Money to support faculty research activities. Kindly circulate this information to all faculty members to utilize the opportunity. Herewith the needed faculty are to submit the proposal in the following format. Last date for the proposal submission to concern department HOD is 15.07.2016.

Dean R&D

(Dr. P.RATNAKAMALA)
Dean - R&D
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.) A.P.

Principal

(Dr.K.CHANDRASEKHAR REDDY)
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583,Chittoor Dist.

Copy to:

All HODs

R&D file

Principal file

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
(AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF PROJECTS RECEIVED FOR SEEDMONEY FROM DEPARTMENTS FOR ACY 2016-2017

S.No.	Department	Title of the Project	Name of the Faculty	Estimated Cost of the Project
1	CSE	Smart Health Tracking System	Mr.G.Prasad Babu	10869
2		Home Services	Mr.B.Pavan Kumar	10869
3		Hyper Alert System for fisherman using IOT	Mr. B. Vivek	15991
4	ECE	Smart Irrigation System Using GSM	Mrs C.H Pallavi	9648
		Artificial Movable Railway Platform	Mrs.P.Vijaya	8550
5		Smart Home	Mr.P.Pavan Kumar	10773
		Home Security using magnetic and PIR sensor	Mrs.J.Jhansi	8620
6		IOT Based Under Ground Garbage Management System	Mrs. M.Kalpana	8340
7		Calibration of the beam pointing Accuracy of an Antenna Array Using the Celestial Radio Source	Mr.Afsar Ali	10300
		VLSI Architecture for Exploiting Carry-Save Arithmetic Using Verilog HDL	Mr. Y.Murali	7005
8		Design and Implementation of Wireless notice board using WI-Fi	Mr. D.Madhu	10650
9		IOT Based LPG Level and leakage detection system	Dr.Janardhana Raju	11503
10		Design of biosensor array with current boost and signal conditioning circuits for HPV detection	Mr. J.Rajanikanth	12421
11		Electronic Walking Stick	Mrs.N.REVATHI	10796
12		Solar powered smart irrigation system using GSM module	Mrs.T.Jasvin Baby	12231
13		IOT based digital notice board	Mrs.M.Niraja	14894
14		Alive Human and Bomb detecting Robot	Mr. P.CHANDRA SEKHAR	20000
15		Prepared energy meter using GSM and ARDUINO	Mr. J. YUGANDHAR	20000

16	EEE	Reconfigurable solar converter :A single stage power conversion PV-battery system	Ms. B.RAJANI	20000
17		PSO tuned PID controller based shunt active filter for harmonic reduction	Dr.N. RAMESH RAJU	20000
18		High voltage boosting converters based on bootstrap capacitors and boost inductors	Mr. G. SESHADRI	20000
19		An IOT based intelligent system for for real time parking monitoring and automatic billing	Ms. C.R.HEMAVATHI	20000
20	MCA	Automatic Comparing of Different Web-Applications for Finding Feasible Solution of the Product	Mr. P. Karthikeyan	50000
21	MECH	Design and Fabrication of Groundnut Separating Machine	Mr. K.Sudhakar	25,000
22		Pesticide Spraying using Quad Copter	Mr.P.Kesavulu	20000
23		Design and fabrication of cricket ball net practicing machine	Mr.V.Chaitanya vinay	30000
24		Fabrication of seed sowing machine	Mr.K.Hemamahesh	25000
25		Fabrication and testing of atmospheric water generation system	Dr.C.Sreedhar	43000
26		Design & fabrication of trash collecting machine	Dr.C.Sreedhar	37000
27		Fabrication of solar powered ground nut decorticator	Dr.S.Sunilkumar reddy	20000
28	CIVIL	Strength properties of concrete by the influence of Fly Ash and Nano silica as a partial replacement of cement	Dr. S. SIDDIRAJU	66000
29		Comparsion of Strength Properties of Expansive Soils blended with Lime	Mr. R.RAJESH KUMAR	40000
30		An Experimental Investigation on Mechanical Properties of Light Weight Aggregate (LWC) using Pumice aggregate, GGBS, Fly-Ash	Mr. R.RAJESH KUMAR	46000
			Total	695460

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RESEARCH & DEVELOPMENT
PROJECT ASSESSMENT FOR SEEDMONEY FOR ACY 2016-2017

S.No.	Department	A.C.Y	Title of the Project	Thrust area of research	Social Responsibility	Novelty of the Project	Economic Aspects	Reliability and Feasibility	Design, Analysis, Simulation	Fabrication	Creative competence	Total (Max 40 Marks)	Recommended / Not Recommended (Minimum 28 marks for Recommended)
1	CSE	2016-17	Smart Health Tracking System	4	4	4	3	3	4	4	4	30	Recom.
2			Home Services	4	4	4	4	4	4	4	4	32	Recom.
3			Hyper Alert System for fisherman using IOT	3	3	3	3	3	3	3	3	24	Not Rec.
4	ECE	2016-17	Smart Irrigation System Using GSM	3	3	4	3	4	2	3	4	26	Not Rec.
			Artificial Movable Railway Platform	4	4	4	3	4	4	4	4	31	Recom.
5			Smart Home	4	4	5	4	4	5	4	4	34	Recom.
			Home Security using magnetic and PIR sensor	3	4	3	3	3	3	3	4	27	Not Rec.
6			IOT Based Under Ground Garbage Management System	4	4	4	3	3	4	3	4	29	Recom.
7			Calibration of the beam pointing Accuracy of an Antenna Array Using the Celestial Radio Source	4	4	4	3	3	4	4	4	30	Recom.
			VLSI Architecture for Exploiting Carry-Save Arithmetic Using Verilog HDL	3	3	4	3	3	4	2	4	26	Not Rec.
8			Design and Implementation of Wireless notice board using WI-Fi	4	4	4	4	4	4	4	4	32	Recom.
9			IOT Based LPG Level and leakage detection system	4	4	4	3	4	4	4	4	31	Recom.
10			Design of biosensor array with current boost and signal conditioning circuits for HPV detection	4	4	4	3	3	4	4	4	30	Recom.
11			Electronic Walking Stick	3	4	3	4	3	3	3	4	28	Recom.
12			Solar powered smart irrigation system using GSM module	4	4	4	3	4	4	4	4	31	Recom.
13			IOT based digital notice board	4	4	4	3	3	4	4	4	30	Recom.

14	EEE	2016-17	Alive Human and Bomb detecting Robot	4	4	4	4	3	4	4	4	31	Recom.
15			Prepared energy meter using GSM and ARDUINO	4	4	4	3	3	4	4	4	30	Recom.
16			Reconfigurable solar converter :A single stage power conversion PV-battery system	3	4	3	4	3	3	4	4	29	Recom.
17			PSO tuned PID controller based shunt active filter for harmonic reduction	3	4	3	4	3	3	3	4	28	Recom.
18			High voltage boosting converters based on bootstrap capacitors and boost inductors	4	4	4	4	4	4	4	4	32	Recom.
19			An IOT based intelligent system for for real time parking monitoring and automatic billing	3	4	3	4	3	3	3	4	28	Not Rec.
20	MCA	2016-17	Automatic Comparing of Different Web-Applications for Finding Feasible Solution of the Product	4	4	4	3	3	4	4	4	30	Recom.
21	MECH	2016-17	Design and Fabrication of Groundnut Separating Machine	4	4	4	3	3	4	4	4	30	Recom.
22			Pesticide Spraying using Quad Copter	4	4	5	4	4	4	4	4	33	Recom.
23			Design and fabrication of cricket ball net practicing machine	4	4	4	3	4	4	4	4	31	Recom.
24			Fabrication of seed sowing machine									29	Recom.
25			Fabrication and testing of atmospheric water generation system	4	4	4	3	4	4	4	4	31	Recom.
26			Design & fabrication of trash collecting machine	4	4	5	4	4	4	4	4	33	Recom.
27			Fabrication of solar powered ground nut decorticator	4	4	4	3	3	4	4	4	30	Recom.
28	CIVIL	2016-17	Strength properties of concrete by the influence of Fly Ash and Nano silica as a partial replacement of cement	3	4	3	4	3	4	3	4	28	Recom.
29			Comparsion of Strength Properties of Expansive Soils blended with Lime	4	4	4	3	4	4	4	4	31	Recom.
30			An Experimental Investigation on Mechanical Properties of Light Weight Aggregate (LWC) using Pumice aggregate, GGBS, Fly-Ash	3	3	3	3	3	3	3	3	24	Not Rec.

Dean - R&D
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

RESEARCH & DEVELOPMENT

LIST OF SANCTIONED PROJECTS FOR SEEDMONEY FOR ACY 2016-2017

S.No.	Dept.	Title of the Project	Name of the Faculty	Sanctioned Amount (Rs)
1	CSE	Smart Health Tracking System	Mr.G.Prasad Babu	10869
2		Home Services	Mr.B.Pavan Kumar	10869
3	ECE	Artificial Movable Railway Platform	Mrs.P.Vijaya	8550
4		Smart Home	Mr.P.Pavan Kumar	10773
5		IOT Based Under Ground Garbage Management System	Mrs. M.Kalpana	8340
6		Calibration of the beam pointing Accuracy of an Antenna Array Using the Celestial Radio Source	Mr.Afsar Ali	10300
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11		Solar powered smart irrigation system using GSM module	Mrs.T.Jasvin Baby	12231
12		IOT based digital notice board	Mrs.M.Niraja	14894
13	EEE	Alive Human and Bomb detecting Robot	Mr. P.Chandra Sekhar	20000
14		Prepared energy meter using GSM and ARDUINO	Mr. J. Yugandhar	20000
15		Reconfigurable solar converter :A single stage power conversion PV-battery system	Ms. B.Rajani	20000
16		PSO tuned PID controller based shunt active filter for harmonic reduction	Dr.N. Ramesh Raju	20000
17		High voltage boosting converters based on bootstrap capacitors and boost inductors	Mr. G. Seshadri	20000
18	MCA	Automatic Comparing of Different Web-Applications for Finding Feasible Solution of the Product	Mr. P. Karthikeyan	50000
19		Design and Fabrication of Groundnut Separating Machine	Mr. K.Sudhakar	25,000

20	MECH	Pesticide Spraying using Quad Copter	Mr.P.Kesavulu	20000
21		Design and fabrication of cricket ball net practicing machine	Mr.V.Chaitanya vinay	30000
22		Fabrication of seed sowing machine	Mr.K.Hemamahesh	25000
23		Fabrication and testing of atmospheric water generation system	Dr.C.Sreedhar	43000
24		Design & fabrication of trash collecting machine	Dr.C.Sreedhar	37000
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27		Comparsion of Strength Properties of Expansive Soils blended with Lime	Mr. R.Rajesh Kumar	40000
			Total	588196

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Siddharth Institute of Engineering & Technology
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Siddharth Nagar, Narayanavanam Road, Puttur- 517583
Chittoor District, Andhra Pradesh, India.

Seed Money Requisition Form

Faculty Project Proposal

A.C.Y. 2016 - 2017

1. Personal Details:

Name	Mr. P.CHANDRA SEKHAR	Branch	EEE
Designation	ASSOCIATE PROFESSOR		
Email ID	cspagadala@gmail.com		
Mobile Number	9440163225		

2. Sector of the challenge (Please write the appropriate sector)

ROBOTICS

3. Synopsis of the Research Project Proposal:

- Alive human body detection system proposed a monitoring system using ultrasonic sensors and camera to record, transmit and analyze conditions of human body. The task of identify human being in rescue operations is difficult for the robotic agent but it is simple for the human agent. In order to detect a human body, an autonomous robot must be equipped with a specific set of sensors that provide information about the presence of a person in the environment around. This work describes a autonomous robot for rescue operations.
- The detection depending on a number of factors such as the body position and the light intensity of the scene. Results show that the system provides an efficient way to track human motion. The aim of this article is to present our experience with various sensors designed and developed.

4. Financial Details:

S.No.	Major Components	Amount per unit (Rs)	No. of quantity required	Total cost (Rs)
1	Power Supply	400/-	1	20,000/-
2	Micro Controller (AT89S52)	2,000/-	1	
3	DC Gear Motor	12,000/-	1	
4	Relays	1000/-	2	
5	PIR Sensor	2,600/-	2	

5. Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

Signature of the Faculty

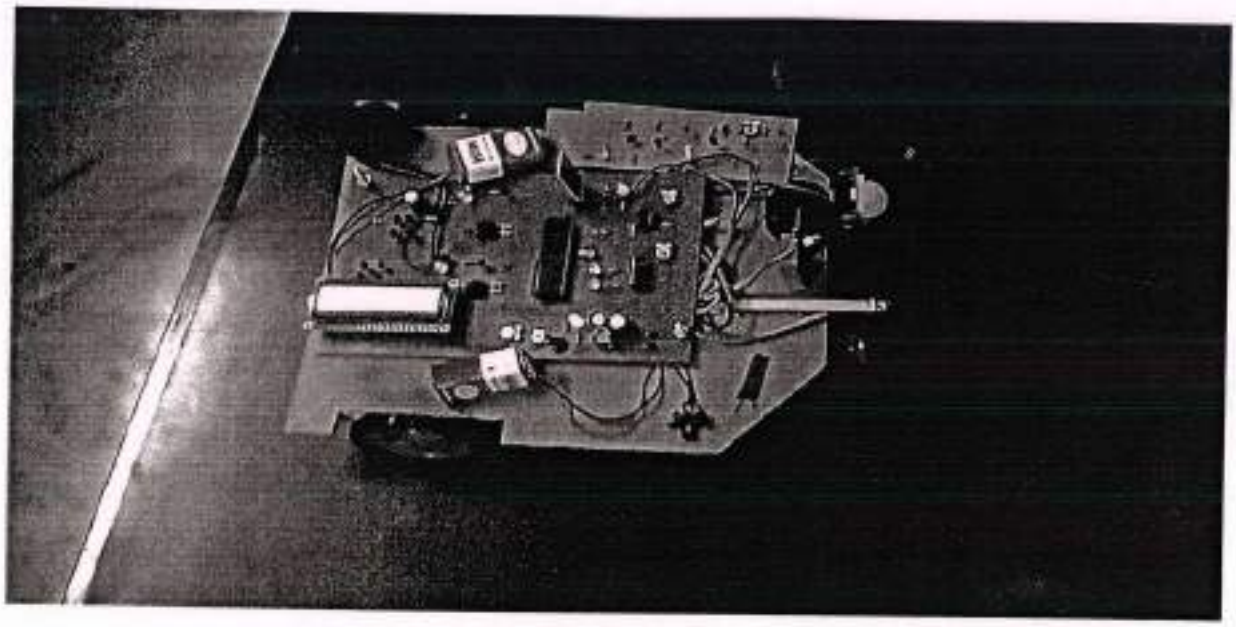
HEAD HOD

Dept. of Electrical & Electronics Engineering
Siddharth Institute of Engineering & Technology
Siddarth Nagar, Narayanavanam Road
PUTTUR-517 583, Chittoor (Dist), A.P.

SIDDHARTH INSTITUTE OFENGINEERING& TECHNOLOGY:PUTTUR
(AUTONOMOUS)
(Approved by A.I.C.T.E., New Delhi & affiliated to J.N.T.U.A Anantapuramu)
Siddharth Nagar, Narayanavanam Road, Puttur- 517583
Chittoor District, Andhra Pradesh, India.

Name	Mr. P.CHANDRA SEKHAR

- Alive human body detection system proposed a monitoring system using ultrasonic sensors and camera to record, transmit and analyze conditions of human body. The task of identify human being in rescue operations is difficult for the robotic agent but it is simple for the human agent. In order to detect a human body, an autonomous robot must be equipped with a specific set of sensors that provide information about the presence of a person in the environment around. This work describes a autonomous robot for rescue operations.
- The detection depending on a number of factors such as the body position and the light intensity of the scene. Results show that the system provides an efficient way to track human motion. The aim of this article is to present our experience with various sensors designed and developed.



Alive Human and Bomb detecting Robot

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)
(NAAC Accredited with 'A' Grade & NBA Accredited Institution for Civil, Mech., EEE, ECE, CSE)
Siddharth Nagar, Narayanavanam Road, Puttur – 517 583
Chittoor Dist., A.P., INDIA

SEED MONEY REQUISTION FORM

Faculty Project Proposal

Academic Year: 2016 - 2017

1. Personal Details

Name	Mr. P. Karthikeyan	**Branch**	MCA
Designation	Assistant Professor		
Email ID	karthipaneer@gmail.com		
Mobile Number	8428451985		

2. Sector of the challenge:

Comparison of web application using selenium tool

3. Synopsis of the Research Project Proposal:

The scope & nature of this paper is to deliver the feasible solutions to the end user. The function automated approach is to verify the fields such as the web application, functionality of the features, titles of the web pages and providing feasible solution at present in the world. Now-a-days everyone is purchase the products from the e-commerce websites like Amazon, E-Bay, Snapdeal, etc. because e-commerce is the most trending one. One should verify the prices of the product in all the sites manually and purchase it which is having fewer prices. For them, we are providing this automated approach for finding the feasible product- price to the end user. Parallel to it, we test the application with different verification conditions.

Declaration:

I hereby declared that the details furnished above are to my knowledge and amount will be used only for research projects only.

P. Karthikeyan

Signature of the Faculty

S. Chenchu

HOD

H.O.D
Department of Computer Applications
Siddharth Institute of Engineering & Technology
Narayanavanam Road, Puttur-517 583.

International Journal of Science and Research (IJSR)
ISSN (Online): 2319-7064
Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

Automatic Comparing of Different Web-Applications for Finding Feasible Solution of the Product

E. Durga[1], P. Karthikeyan[2]

[1]Department of MCA, Siddharth Institute of Engineering & Technology, Puttur

[2]Assistant Professor, Siddharth Institute of Engineering & Technology, Puttur

Abstract: *The scope & nature of this paper is to deliver the feasible solutions to the end user. The function automated approach is to verify the fields such as the web application, functionality of the features, titles of the web pages and providing feasible solution at present in the world. Now-a-days everyone is purchase the products from the e-commerce websites like Amazon, E-Bay, Snapdeal, etc. because e-commerce is the most trending one. One should verify the prices of the product in all the sites manually and purchase it which is having less price. For them, we are provide this automated approach for finding the feasible product- price to the end user. Parallel to it, we test the application with different verification conditions.*

Keywords: WebDriver, Selenium WebDriver, Selenese commands, TestNG Framework

1. Introduction

Nowadays, more and more business transactions are carried out on the Internet through web pages built by people. Some websites are simple enough that they can be set up by one or two people, but some websites are so complex that they are built by hundreds or even thousands of developers. Before each release, the site must be tested to make sure it is free of critical bugs. It is time-consuming to test the whole site manually, and as the site grows, so does the cost of testing. More than that, as time passes, a new feature that was well-tested when it first became available may be forgotten about later we risk of a loss of consistency and quality, and as a result bugs in what we thought were solid pieces of functionality creep in. In the textile industry, manual labour dominated the process of making clothes for a long time. When weaving machines were invented, productivity improved dramatically. The same thing is happening in software testing. Just as weaving machines changed the textile industry, we are now building "automatic testing machines" to replace manual testing, to improve the productivity, quality, and consistency of the software. Since its inception in 2008, Selenium WebDriver (also known as Selenium 2) has established itself as the de facto web automation library. Before Selenium WebDriver, there was Selenium 1.0, which enabled automation by injecting JavaScript into web pages. WebDriver is a re-invention of that idea, but is more reliable, more powerful, and more scalable.

1.1 Problem Definition

Now-a-days everydne is purchase the products from the e-commerce websites like Amazon, E-Bay, Snapdeal, etc. because e-commerce is the most trending one. One should verify the prices of the product in all the sites manually.

Manually, user needs to check the prices of the product on different website and it takes so much time to find the lowest price, based on the problem. This paper is to provide a feasible solution of product price list based on the automation. An Automated scripts will compare the prices in different web site and provide us the feasible solution. We can run automation script at any time, means we will get the feasible price just by triggering the batch file.

2. Modules

In this paper approach the Automatic Comparing of Different Web-Applications for finding feasible Solution of the Product, we require the three modules as follows.

a) Fetching Product Prices
b) Comparing product prices
c) Feasible Solution

3. Modules Description

a) Fetching Product Prices

In this module, by using Selenium WebDriver tool. We are going to fetch the product prices from different web sites, Selenium WebDriver is a web application testing tool and open source freeware. This automation testing framework has gained a wide acceptance as a popular and successful mode of websites. Selenium WebDriver having the set of Selenese commands to perform actions on Web Applications. Those Actions are like launching the URL (Uniform Resource Locator), navigate to different websites, fetching the texts from UI (User Interface), Performing click actions on links, button, checkboxes, radio buttons etc., Please find the below image for all the Selenese Commands. By using Selenese commands, we will fetch the product prices.

Following the different steps to get the product information.

- Navigate to **website(Ex: Ebay.in)**
- Search for the **product(Ex: iPhone)**
- Click on **product** for description
- Get the **product** price from **website**