

ROBOTEER-2019

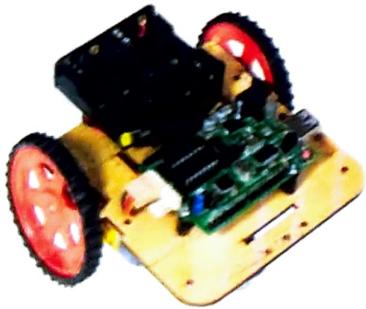
Learn by doing...

Maze Solving Robot

Objective:

The objective of this Event is to build a robot which can find its way in a maze with walls from start point to finish point with many dead ends. The robot has to reach its destination in minimum time.

The hardware requirements include Arduino Uno with Auton shield. Motors and IR sensors with a chassis & power supply. For performance testing, the robot will be implemented to solve the given maze.



Important Note:

While registering for the Competition, the participants should submit a registration form as per the format given overleaf.

Chief Patrons

- **Dr. M. Jagannath Sheno**
President, GSSS (R), Mysuru.
- **Smt. Vanaja B Pandit**
Hon. Secretary, GSSS (R), Mysuru.

Patrons

- **Sri. R.K. Bharath**
CEO and Management Committee Member,
GSSS (R), Mysuru.
- **Smt. Anupama B Pandit**
AO, GSSSIETW, Mysuru.

Organizing Chair

- **Dr. Shivakumar. M**
Principal, GSSSIETW, Mysuru.

Chief Coordinator

- **Dr. Venkatratnam. C**
Associate Professor & Head of EIE,
GSSSIETW, Mysuru
E-mail: hodeie@gsss.edu.in

Conveners

- **Sri. M.V. Sreenivas Rao**, Associate Professor
- **Sri. Nagesh. M.S**, Assistant Professor

Organizing Committee

- **Smt. Lalitha K**, Assistant Professor
- **Smt. Sowjanya. M. N**, Assistant Professor
- **Smt. Amrutha.R**, Assistant Professor
- **Kum. Deepika.T.V**, Assistant Professor
- **Kum. Nagalakshmi.T.S**, Assistant Professor
- **Sri. Manjunath.J**, Foreman
- **Sri. Phanindra S**, Instructor
- **Smt. Divyashree. N.J**, Instructor



Geetha Shishu Shikshana Sangha (R)

GSSS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN
(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka)

K.R.S Road, Metagalli Industrial Area,
MYSURU-570016 Karnataka, INDIA

Tel: 0821 4257304/05/06 Fax: 0821-2581305

Inter College Robotic Event

ROBOTEER-2019

Learn by doing...

1st October 2019

Under IQAC



Organized by

**Department of Electronics & Instrumentation
Engineering**

(Formerly Known as Instrumentation Technology, Accredited by NBA)

Validity: 01-07-2017 to 30-06-2020

In association with



Instrument Society of India (ISOI) Student Chapter

Visit us at www.geethashishu.in



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MYSURU – 570 016

Department of Electronics & Instrumentation Engineering

(Formerly Known as Instrumentation Technology, Accredited by NBA)
Validity: 01-07-2017 to 30-06-2020

Inter-College Robotic Event

ROBOTEER-2019

1st October 2019

Registration Form

Name.....

Department.....

College.....

E-mail.....

Mobile No.....

DD Information

Amount in Rs.....

DD No & Date.....

Bank Name

Signature of the Participant:

The above candidate is permitted to participate in the above programme.

Place: Date:

Signature of the HOD / Principal with Seal

ABOUT GSSSIETW:

Geetha Shishu Shikshana Sangha (R) is the outcome of the vision and initiative of Late. Prof. B.S. Pandit, former Professor, SJCE, Mysuru. His vision was to provide quality technical education to girls. Housed in a sprawling campus of 14 acres, established in the year 2003, GSSSIETW has already become one of the reputed Colleges in the state of Karnataka. A fabulous state of art standards with well-ventilated class rooms, departmental laboratories, workshops, library, Edusat, center, Meditation hall, Placement & Training Cell and much more. The institute offers 6 UG programs, 2 M.Tech Programs and MBA all affiliated to VTU Belagavi. The Institution has professional forums like IEEE, ISOI, IETE and CSI. The College also offers Ph.D. programs in ECE, EIE, CSE, EEE, ISE, TCE, Chemistry, Physics, Mathematics and MBA departments.

ABOUT THE DEPARTMENT:

Department of Electronics & Instrumentation Engineering was started in 2006-07 with an intake of 60 students. The department has qualified and dedicated teaching staff & non-teaching staff, striving hard towards the development of the department. The students of the department have secured **11 ranks** so far in the VTU exams. Dept. has established **Robotics Lab** in association with e-yantra of IIT Bombay using a grant of **Rs.30 Lakhs** sanctioned by Vision Group on Science & Technology, Govt. of Karnataka. The department regularly organizes faculty development programs, hands-on workshops, technical talks, industrial visits, conferences, competitions, industry-institute interaction, etc.

About ROBOTEER-2019:

It provides a platform for the students to demonstrate their knowledge and programming skills in embedded systems and Robotics.

Who should attend?

Engineering and Robotic savvy students.

Important dates:

Last Date for registration **23/09/2019**

Event date **01/10/2019**

Registration Fee: Rs. 2000/-

Per Team - Max 4 Members

Registration fee includes,

- **ROBOT KIT** (Take home)
- Lunch.
- Participation Certificates

Registration form duly signed by the head of the Institute/HOD along with DD in favor of **“GSSSIETW, payable at Mysuru”** to be sent to The Principal, GSSSIETW, KRS Road, Mysuru on or before 23rd September 2019. Scanned copy of the registration form and DD shall be mailed to: roboteer@gsss.edu.in on or before **23rd September 2019.**

For queries, please contact:

Mr. Nagesh. M.S

Asst. Professor, Dept. of E&IE, GSSSIETW.

Mob: 9945292800

Mr. M.V. Sreenivas Rao

Associate Professor, Dept. of E&IE, GSSSIETW

Mob: 9449203599

Email : roboteer@gsss.edu.in

Geetha Shishu Shikshana Sangha (R)
GSSS Institute of Engineering & Technology for Women
 KRS Road, Metagalli, Mysore - 570 016

(Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE, New Delhi & Government of Karnataka)

GSSSIETW/Approval/2019-20/048

Date: 30/07/2019

Proposal to the Management

Subject	Approval to organize Inter-college Robotics event Roboteer-2019 on 25th Sept. 2019 for UG/PG students of all branches (Program Specific budget)
Proposed by	HOD-EI
Matter	Received letter to organize Inter-college Robotics event Roboteer-2019 on 25 th Sept. 2019 for UG/PG students of all branches. The objective of this event is to provide a platform for the students to gain knowledge on hardware assembly & programming skills in Embedded system and Robotics. The financial implications are as follows. Expected expenditure of the event: Rs. 41,771/- Expected Income form registration & sponsored amount from ISOI student chapter: Rs. 44,050/- Request letter and budget proposal is enclosed for kind reference and for kind approval.
Recommendation of Principal	Roboteer is an inter-college competition being conducted in our institute from the last few years. Students ^{from} several colleges across Karnataka will participate in this event. Hence, I recommend the proposal submitted by EIE HOD to organize Roboteer-2019 on 25/09/2019.

[Signature]
 30/7/19
REGISTRAR
 GSSSIETW, MYSURU-570016

[Signature]
 30/07/19
Principal
 GSSSIETW, Mysore-16

Decision of the Management

Date: 31/7/19

Decision	OK APPROVED
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[Signature]
CEO
 Chief Executive Officer
 GSSS (R), Mysore

[Signature]
 20.8.19
 Hon. Secretary
HON. SECRETARY
 Geetha Shishu Shikshana Sangha

Geetha Shishu Shikshana Sangha (R)

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KRS Road, Metagalli, Mysuru 570 016, Karnataka, India

Department of Electronics & Instrumentation Engineering

Instrumentation Technology
Accredited by NBA, New Delhi
(Validity: 01.07.2017 - 30.06.2020)

Date: 29/07/2019

To,
The Principal,
GSSSIETW,
Mysuru.

Respected Sir,

Sub: Budget for the Inter-college Robotics Event ROBOTTEER-2019.

The Department of Electronics and Instrumentation Engineering would like to organize the Inter-college Robotics Event ROBOTTEER-2019 on 25th September 2019 for the UG & PG students of EIE/ECE/EEE/TCE/CSE/ISE/MECH branches of engineering colleges. The objective of this event is to provide a platform for the students to gain knowledge on hardware assembly & programming skills in Embedded Systems and Robotics. The aim is to build a robot which can find its way in a maze with walls from start point to finish point with many dead ends.

The Total Expenditure for the conduction of event is as follows:

Particulars	Amount in Rs
Total expenditure for the conduction of the event	41,771/-
Total amount from Registration (Rs 2000/- x 20 batches)	40,000/-
Sponsored amount from ISOI student chapter	4,050/-

This event will be conducted under IQAC cell & ISOI Student Chapter. Approximate expenditure to carry out this event is Rs 41,771/-. The budget estimation for the conduction of event is enclosed along with this letter. We kindly request you to permit us to conduct the event. This is for your kind consideration and needful action.

Thanking You,

Yours Faithfully


(Dr. Venkatratnam Chitturi)
Head of the Department
DEPARTMENT OF ELECTRONICS &
INSTRUMENTATION ENGINEERING

TO

Registrar

H. Shivaramaiah

29/7/2019

Budget Estimation for Conduction of the Inter-college Robotics Event
ROBOTEER-2019

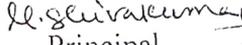
Sl No	Particulars	Quantity	Amount in Rs
1	Robotic kit (Rs. 1,040/- per kit + 18% GST = Rs. 1,227.20/-)	21 kits	25,771/-
2	Maze	4	4,000/-
3	Certificates	110	1,350/-
4	Banner	1	500/-
5	Boucher & Poster		2,500/-
6	Postal charges (Rs.6 X 50 Nos.)	50	300/-
7	Inauguration		500/-
8	Guest Hospitality (Memento, Citation. Tea, Biscuits)		2,000/-
9	Stationary, Marker Pen (Notepad, Pen. double sided tape)	20	350/-
10	Food for participants (lunch Rs 50/- per head)	90	4,500/-
	Total		41,771/-

Note:

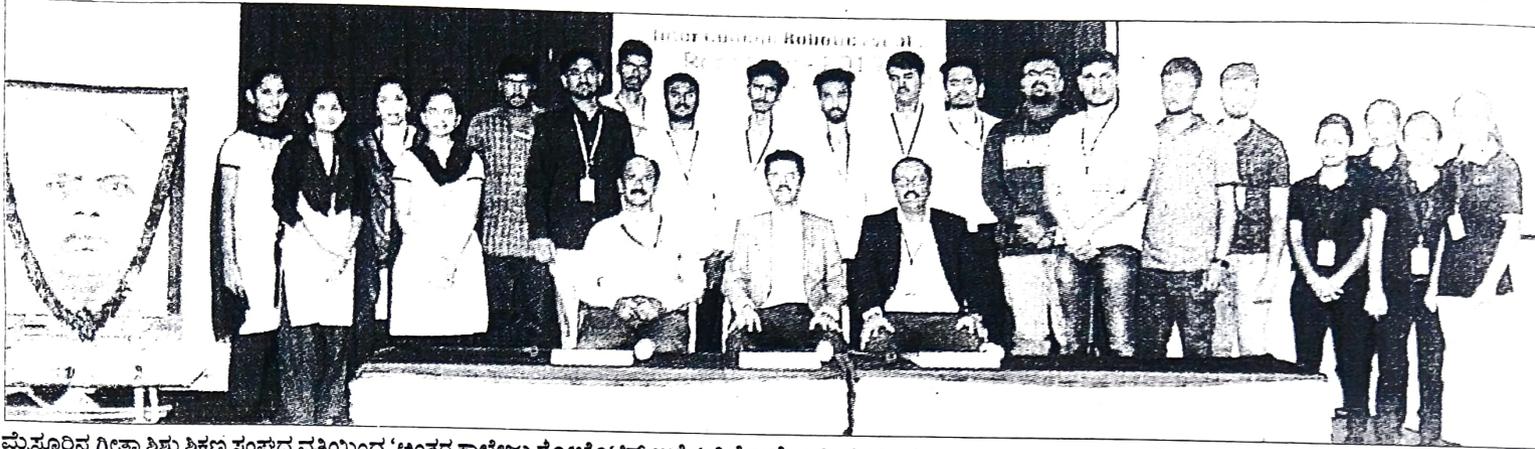
- The registration amount for the robotics event per batch is Rs. 2000/- rupees. Each batch consists of Maximum 4 students. About 20 batches are expected to participate in the event, the total amount expected from registration will be Rs 40,000/-.
- The registration amount & the Sponsored amount from ISIO student chapter will be utilized to meet the expenses for conduction of the event.

Total amount from Registration	: Rs 40,000/-
Amount from ISOI student chapter	: Rs. 4,050/-
Approximate amount for the conduction of event	: Rs. 41,771/-
Remaining Amount	: Rs. 2,279/-


 HOD
 Head of the Department
 DEPARTMENT OF ELECTRONICS &
 INSTRUMENTATION ENGINEERING


 Principal 29/07/2017





ಮೈಸೂರಿನ ಗೀತಾ ಶಿಶು ಶಿಕ್ಷಣ ಸಂಘದ ವತಿಯಿಂದ 'ಅಂತರ ಕಾಲೇಜು ರೋಬೋಟಿಕ್ ಇವೆಂಟ್ ರೋಬೋಟೀರ್ 2019' ಎಂಬ ಕಾರ್ಯಕ್ರಮವನ್ನು ಆಯೋಜಿಸಲಾಗಿತ್ತು. ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಎಂ.ವಿ.ಶ್ರೀನಿವಾಸ್ ರಾವ್, ಬಿ.ಶ್ರೀಕಾಂತ ಆರಾಧ್ಯ, ಪ್ರಾಂಶುಪಾಲರಾದ ಡಾ.ಎಂ.ಶಿವಕುಮಾರ್ ಇತರರು ಚಿತ್ರದಲ್ಲಿದ್ದಾರೆ.

R.A.

Andolana, 22/10/19, P-H.



Geetha Shishu Shikshana Sangha (R)

GSSS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka)

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PRESS NOTE

Inter - college Robotic Event ROBOTTEER-2019 held on 01st October, 2019



Mr. M V Sreenivas Rao, Associate Professor and Head, Dept. of E&IE, GSSSIETW, Mr. Sreekanta Aradhya. B, Chief Expert- Industry 4.0 & MES, RBEI/EIA, Robert Bosch Engineering & Business Solutions Limited, Bengaluru, Dr. M Shivakumar, Principal, GSSSIETW, Mysuru and Participants of Roboteer - 2019

The Department of Electronics and Instrumentation Engineering, GSSSIETW had organized Inter-College Robotic event “ROBOTTEER-2019” in association with Instrument Society of India (ISOI) Student Chapter, under IQAC, GSSSIETW for the PG & UG students of ECE/EIE/EEE/TCE/CSE/ISE/MECH branches of engineering colleges. The Event is inter-disciplinary in nature and designed to provide both theoretical and practical knowledge for students in Robotics. ROBOTTEER event aimed to provide a platform for students to demonstrate their knowledge and programming skills in embedded systems and Robotics. The objective of this Event is to build a robot which can find its way in a maze with walls from start point to finish point with many dead ends. The robot has to reach its destination in minimum time. It is an opportunity for applying the knowledge to solve the given task using the robotic kit provided during

the event. The chief guest for the event was **Mr. Sreekanta Aradhya. B, Chief Expert- Industry 4.0 & MES, RBEI/EIA, Robert Bosch Engineering & Business Solutions Limited, Bengaluru**

The chief guest after inaugurating the event in his speech shared his experience in the field of robotics and about the evolution of robots in the past two decades from 2D to 3D vision, Stationary to mobility and also in terms of the safety considerations and miniaturization. He highlighted about the three B's (**Brain, Brawn & Bone**) of robots and the increasing efficiency and capability of the robots and also, he spotlighted on the current trends in the field of robotics and artificial intelligence. He enlightened the audience about the widespread applications of the mobile robots in various industries. During his speech Sreekanta Aradhya.

He briefed about the Autonomous Mobile Robots and its role in warehouses, which is capable of picking the right objects and placing it in the right place. He also mentioned about the collaborative robots which is the current trend in the industries wherein the robots work in collaboration with the humans. Further he briefed about the various controllers and operating systems that can be used for robots and the communication between the robots through cloud and about the remote monitoring of the robots using cloud technology and artificial intelligence. He emphasized about the future of robotics and about the career opportunities in the field of robotics in India and across the world and encouraged the participants to carry out innovative researches in the area of robotics.

Dr. M Shivakumar, Principal, M V Sreenivas Rao, Associate Professor & Head, faculty and students of Dept of E&IE, GSSSIETW were present during the occasion. About 20 teams from various engineering colleges in and around the Mysuru enthusiastically participated in the event. The competition was held at the end of the event and the winning teams were awarded with cash prize.

Sd/-

(M V Sreenivas Rao)
Associate Professor & Head
Dept. of E&IE



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DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING
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Invitation

*It is our pleasure to invite you for the Inauguration of
One day Inter-college Robotic Event*

"ROBOTEER - 2019"

on

1st Oct 2019

Chief Guest

Mr. Vasuki D N

Director
National Institute of Engineering,
Mysuru

Presided by

Smt. Vanaja B Pandit

Hon. Secretary, GSSS(R), Mysuru

In the presence of

Smt. Anupama B Pandit
AO, GSSSIETW, Mysuru

Dr. Shivakumar M
Principal, GSSSIETW, Mysuru

Sri. Bharath R K
CEO & MCM, GSSS(R)



Kindly do attend and grace the occasion

Venue: Seminar Hall, GSSSIETW, Mysuru

Time: 10.00 A.M

In Association With



Instrument Society of India (ISOI) Student Chapter

Under



Internal Quality Assurance Cell



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“ROBOTEER - 2019”

AGENDA

Invocation	: Shreelakshmi H S, VII Sem	[3 min]
Welcome Speech	: Tanushree M U, VII Sem	[3 min]
Offering flowers	: Dignitaries	[2 min]
About the Event	: M V Sreenivas Rao, Associate Professor	[2 min]
Introduction of Chief Guest	: Preethi K, VII Sem	[2 min]
Address by Chief Guest	: Sreekanta Aradhya. B Chief Expert- Industry 4.0 & MES, RBEI/EIA , Robert Bosch Engineering & Business Solutions Limited, Bengaluru	[10 min]
Address by Principal	: Dr. Shivakumar M, Principal, GSSSIETW	[2 min]
Vote of Thanks	: Simran B A. VII Sem	[3 min]

Group Photo

MOC: Meghana Thorvath V, VII Sem

Venue: Seminar Hall, GSSSIETW, Mysuru

Time: 10.00 AM

Date: 01.10.2019



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“ROBOTEER – 2019”

Inter College Robotic event on 1st October 2019

FEEDBACK FORM

It is important to get your feedback on today's workshop. If you could take a few minutes to complete the following questions, we would be very thankful. *Please note "your feedback and suggestions are valuable to us."*

	Excellent	Very Good	Good	Acceptable
Registration	✓			
Workshop venue and facilities		✓		
Information provided on the robotics				✓
Hands on activities			✓	
Overall Workshop			✓	
Catering			✓	
What was the most valuable about the workshop?	had good knowledge about robotic			
What was the least valuable about the workshop?				
Domain you would suggest for conducting Workshop in future	require more time to learn			

If you have any other suggestions please indicate the same overleaf. Kindly fill this form and handover to the coordinators.

Thank You

Name: Madhushree D. S

College: MIT

Date: 1-10-19

Madhushree D. S
Signature



Geetha Shishu Shikshana Sangha (R) **GSSS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**

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“ROBOTEER – 2019”

Inter College Robotic event on 1st October 2019

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	Excellent	Very Good	Good	Acceptable
Registration		✓		
Workshop venue and facilities		✓		
Information provided on the robotics	✓			
Hands on activities	✓			
Overall Workshop	✓			
Catering			✓	
What was the most valuable about the workshop?	Hands on Experience			
What was the least valuable about the workshop?	-			
Domain you would suggest for conducting Workshop in future	Robotics, UAV's			

If you have any other suggestions please indicate the same overleaf. Kindly fill this form and handover to the coordinators.

Thank You

Name: Gharat Nachiketh Sandeep

College: NIE institute of ~~eng~~ technology

Date: 01/10/2019

Signature



Geetha Shiksha Shikshana Sangha (R)

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“Accredited with grade A by NAAC”

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Roboteer-2019

learn by doing....

Organized by Department of Electronics and Instrumentation Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. / Ms. _____

from _____ college has participated in

Inter college Robotic Event **“ROBOTEER - 2019”** held at GSSSIETW, Mysuru, in association with

Instrument Society of India (ISOI) Student Chapter under **IQAC** on **1st October 2019**.

Mr. M.V Sreenivas Rao

Associate Professor & Head, E&IE Dept.

Dr. M. Shivakumar

Principal