

Minutes of General Body Meeting of The Robotics Society (TRS) 07th July 2023 at IIT Ropar (hybrid mode)

Agenda

1. Welcome Address
2. Address by the President, TRS
3. Approval of minutes of previous GBM
4. Presentation of report of activities: Secretary
5. Ratification of decisions taken by Governing Council
6. Presentation of statement of accounts: Treasurer
7. Proposal for MoU between TRS-AMM-ISME. Approval of MoU draft
8. Proposal of considering approval of Student Chapters to the quarter finalists of DD-Robocon with a seed grant of Rs. 10,000 to each team.
9. Discussion on AIR 2025 and TRS workshops
10. Election of new Governing Council for 2023-2025
11. Discussion on activities for 2023-24
12. Any other items with the permission of the Chair

Minutes of Meeting:

1. Prof. Asokan (Secretary) welcomed online and offline participants of the Annual GBM.
2. There were 62 offline participants and 6 online participants (attendee list is given in Annexure 1).
3. Prof. Santanu Chaudhary (President) delivered the presidential address.
4. Secretary informed that the minutes of the previous GBM (February 2022) were circulated to all the members and no comments have been received. General body accepted the minutes.
5. The report of the TRS activity for the period 2022-23 was read out/presented by Prof. Asokan. The contents of it are in Annexure 2. GBM accepted the report.
6. Secretary informed that the Governing Council (GC) meetings were held on 10th July and 15th October 2022. The following decisions taken by the GC were presented in the GBM and taken up for ratification:
 - a. Financial support for AIR 2023
 - b. Financial support for IMSD-ACMD conference
 - c. Financial support for workshop at IIT Madras and IIT Jodhpur.
 - d. Financial support for ICARS at PSG Coimbatore.
 - e. Financial support for student chapters to organise robotics programs.
 - f. Formation of alliance of TRS, AMM and likeminded organisations.These were ratified by the members.
7. The financial statement of TRS was shared and discussed by the Treasurer. A summary of it is in Annexure 3. Members approved the account statement.

Prof. Santanu Chaudhary suggested that the income tax liabilities of the society may be discussed with the accountant and necessary corrections to be incorporated in the statement. GBM authorized the GC to make necessary changes as per the advice of CA.

8. MoU between AMM-ISME-TRS for synergy between the three societies was discussed. Upon deliberation, it was finalized that the points on collaboration can be mentioned in the Minutes of Meeting as Resolution in all the three societies. Specific MoU for joint programs with legal binding may be considered on a case-by-case basis. The GBM authorised Secretary/Governing Council to propose modified points (for resolution) to other societies for their feedback.

Based on this, the GBM resolved to accept the following with regard to the synergy between TRS and AMM/ ISME :

The Robotics Society may:

- a) Extend technical co-sponsorship of events conducted by the other parties. Logos of the parties can be used by the host party.
 - b) Provide assistance in conducting technical events such as conferences, workshops, seminars, etc.
 - c) Collaborate in extending resources from one party to another in case of a requirement.
 - d) Publicize events of one party by the other parties to their respective members and otherwise.
 - e) Extend discount benefits towards the registration fee of the technical events to all parties, subjected to the approval of the respective organizing committees.
9. Proposal from Prof. Saha regarding offering of TRS student chapter status to quarterfinalists of DD-Robocon (yearly competition supported by TRS) was discussed. GBM accepted the following in this regard:
 - a) If a team from a TRS student chapter enters the quarter finals of DD-Robocon, they will be given a cash award of Rs 10,000/- by TRS. The amount can be used for the purchase of hardware related to robotic activities and will be on reimbursement basis. This can be announced to all the TRS student chapters in advance.
 - b) If there is a quarter final team from a college where TRS student chapter is not there, the team can apply for student chapter status after completing the mandatory requirements. Once registered, they will be eligible to get the financial support of Rs 10,000/- for organizing any robotics activity.
 10. Proposal from Prof. Santanu for establishing TRS Local Chapters : This was discussed by the GBM and it was resolved to allow this as per the conditions listed below:
 - a. TRS members in a region can establish a TRS local chapter with a minimum of three full time members and one TRS student chapter as part of the local chapter. More than one student chapter can be affiliated to a local chapter.
 - b. Local chapters can organize robotic activities in collaboration with student chapters.
 - c. Local chapters are encouraged to help local schools in the setting up of robotics clubs.
 11. Setting up of Robotic Archives- Proposal from Prof. Santanu: Based on the discussions, the GBM resolved to setup the Robotic Archives with the following guidelines:
 - a. TRS proposes to create Archive for pre-print of journal papers/manuscripts similar to <https://arxiv.org/>.

- b. This could be dedicated to Robotics area with some sanity check done by TRS community before the submission is made public.
 - c. The authors are free to submit the manuscript elsewhere. After reaching critical mass, TRS can approach a publisher to convert this into a Journal.
 - d. A perpetuity of 5 years for manuscript was finalized.
 - e. A new committee (Publications) would be formed to handle this, along with the Newsletter of the TRS. Eventually, AIR conference proceedings may also go to Archive and then to the Journal.
 - f. TRS Newsletter can include abstracts/summary of the submissions to the Archive so that they also get publicity and TRS Newsletter get content.
12. AIR2025: Secretary informed the GBM that as per the convention, AIR will be awarded to the institute where the last AIR workshop was held. Since IIT Jodhpur organized the workshop in 2023, IIT Jodhpur is the potential organizer for AIR 2025. Prof. Suril Shah from IIT Jodhpur expressed his willingness to host the conference. GBM accepted this request and approved IIT Jodhpur as the venue for AIR 2025. IIT Jodhpur to make a formal request for the same with the details.
13. Based on the requests, TRS Workshops on Advances in Robotics were awarded to IIT Gandinagar and Amrita Vishwa Vidyapeetham, Bengaluru. Dr. Vineet Vashista and Dr. Rajeevalochana G. Chittawadigi to submit formal requests to TRS for the same.
14. Election of Governing Council.
The secretary informed the GBM that the current Governing Council completed three years and a new GC to be elected. Considering the broadened activities of the TRS, Secretary requested the GBM to approve the addition of one more Vice President (three in total) and formation of a publication committee in place of TRS Newsletter coordinator. GBM approved this request. Prof. Asokan, Secretary, suggested the name of Prof. P M Pathak (IIT Roorkee) as the Election Officer and the GBM approved this.
15. Elections were conducted by the election officer and the GC members were elected unanimously for the period of 2023-2026. The list of new office bearers is provided in Annexure 4. The new council will take charge on 1st August 2023.
16. The GBM thanked the current office bearers for their efforts in the execution of their tasks for the duration July 2020-July 2023.
17. The GBM congratulated the new team of Office Bearers. The hand-over from the existing team to the new team was proposed to be completed by end of July 2023.
18. The meeting ended with the Vote of Thanks by Prof. Asokan (Secretary, TRS).

Annexure 1:**Annual General Body Meeting**07th July 2023

IIT Ropar

Attendee list

N o	Name	Organisation	Contact number/email
01	Faizaan Sayyad	PCCOE, Pune	faizaansayyad@gmail.com
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07	RAJESHWAR YADAV	IIT PATNA	rajeshwar-2021CS06@iitp.ac.in (8754709775)
08	Animesh Maiti	IIT Jodhpur	P22ma201@iitj.ac.in
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10	Harsh Ajay Rana	IIT Guwahati	harsh.ajay@iitg.ac.in
11	Gayathri Rangan	IIT Guwahati	gayathri.rangan@iitg.ac.in
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Annexure 2

The Robotics Society **General Body Meeting 07th July 2023** **Report on activities for the period 2022 - 2023**

This report presents the activities of The Robotics Society for the period February 2022 to June 2023. The last GBM was held in February 2022 in online mode.

Membership

The total number of members, student as well as lifetime members, as on 30th June 2023 is 3141. There was an increase of 987 members (life members and student members) during the reporting period. The proactive engagement by the society enabled the increase in membership. Number of student chapters have increased to 34, an increase of 12 student chapters in the reporting period. This clearly shows the increasing acceptance TRS by the student community.

The current list of student chapters are given below: **TSSC**

1. College of Engg, Pune, MP.
2. N.B.K.R. Institute of Science & Technology, Vidyanagar, NellurDist, AP
3. RCC Institute of Information Technology, Beliaghata, Kolkata.
4. Amrutvahini College of Engineering, Amrutnagar, Sangamnar.
5. JSPM'S Rajarshi Shahu College of Engineering, Pune.
6. Muthayammal Engineering College, Namakkal Dist, Tamilnadu.
7. BVM Engineering College, Vallabh Vidyanagar, Gujarat.
8. Karunya Institute of Technology & Sciences, Coimbatore, Tamilnadu.
9. Govt. Engineering College, Palakkad, Kerala.
10. Kongu Engineering College, Erode, Tamilnadu.
11. Amrita School of Engineering, Kollam, Kerala.
12. Jamia Millia Islamia, Jamia Nagar, New Delhi.
13. Dr. D. Y. Patil Institute of Technology, Pune
14. Muffakhah Jah College of Engineering and Technology, Hyderabad, AP.
15. Parul Institute of Technology, Waghodiya, Gujarat.
16. Toc H Institute of Science & Technology, Ernakulam, Kerala.
17. Narayana Engineering College, Nellore AP.
18. Sri Krishna College of Engineering & Technology, Coimbatore, TN.
19. Chennai Institute of Technology, Chennai, TN.
20. J.N.N Institute of Engineering, Chennai, TN.
21. Saintgits College of Engineering, Kottayam, Kerala.
22. Sri Ramakrishna Engineering College, Coimbatore.
23. Maharaja Agrasen Institute of Technology, Delhi.
24. MIT Academy of Engineering, Pune.
25. Rajalakshmi Engineering College, Chennai.
26. The Maharaja Sayajirao University of Baroda, Vadodara.
27. Hindusthan College of Engineering and Technology, Coimbatore, TN
28. Adi Shankara Institute of Engineering & Technology, Ernakulam, Kerala.
29. Thiagarajar college of Engineering, Madurai, TN.
30. Sri Manakula Vinayagar Engg. College, Puducherry.

31. K S Rangasamy college of Technology, Tiruchengode, Tamilnadu.
32. Delhi Skill and Entrepreneurship University (DSEU), New Delhi.
33. Dhanalakshmi Srinivasan Engineering College, Perambalur, TN.
34. PSNA College of Engineering and Technology, Dindigul, Tamilnadu.

TSCM

1. AKGEC Skills
2. The Hi-Tech Robotics Systems Ltd
3. Schunk

Workshops/Conferences Organised/supported:

TRS organised/ supported many conferences and workshops during the reporting period.

- **Doordarshan Robocon India 2022 (DD Robocon):** National Competition organized by IIT Delhi as Asian-Oceanian college robot competition. July 16-17, 2022 at New Delhi.
- The 6th Joint International Conference on **Multibody System Dynamics** and 10th Asian Conference on **Multibody Dynamics (IMSD-ACMD)**, held on Oct 16-20 at IIT Delhi, New Delhi.
- TRS workshop on Field Robotics at IIT Jodhpur from 11/3/23 to 12/3/23.
- 3rd INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN AUTOMATION, ROBOTICS & SENSING at PSG, Coimbatore. December 2022.
- Two days workshop on Redundantly Actuated Robots and Their Human-centered Applications, IIT Gandhinagar, October 8-9, 2022
- One-day workshop on Medical Robotics at IIT Madras on 13th March 2022
- NIT Raipur will be organising the International conference on **Machines and Mechanisms (iNaCoMM)** during December 07-09, 2023 at NIT Raipur.

Newsletter

TRS has been publishing Newsletter on a regular basis. Vol 10 No.1 was published in Nov. 2022. Vol 11, No1 has been published on 8th July 2023. TRS places on record its appreciation of the excellent work done by the editor Dr Sudheer and his team.

Governing Council Meetings.

Governing Council meetings were held on 10th July and 15th October 2022.

Following decisions were taken during the GC meeting:

1. Financial support for AIR 2023
2. Financial support for IMSD-ACMD conference
3. Financial support for workshop at IIT Madras and IIT Jodhpur.
4. Financial support for ICARS at PSG Coimbatore.
5. Financial support for student chapters to organise robotics programs
6. Formation of alliance of TRS, AMM and likeminded organisations.

As per the decision of the TRS governing council, it was decided to provide financial support to the student chapters for organising robotics program for the students. A detailed procedure for sanction of financial support to student chapters has been prepared.

TRS received 12 applications from various states. A sub-committee reviewed the applications and selected 11 chapters to receive the financial assistance. The total budget allocated was Rs 2,50,000/-

Appendix has the details of the financial support.

It is heartening to note that TRS is growing very fast and there is an increased acceptance of the society amongst robotics professionals, academicians, and students. We thank all the members and well-wishers for their support of the society and its activities.

(Asokan T)

Secretary, TRS

Appendix 1

No	Chapter Number	Institute Name	Program Title	Proposed date	Total Budget	TRS approved fund
1	TRS-SC/19/003	RCC Institute of Information Technology, Kolkata	Workshop on 'IoT Based Mobile Industrial Air Quality Monitoring System'	20/01/2023	20,000	Rs 10,000/-
2	TRS-SC/21/016	Parul Institute of Technology, Waghodiya, Gujarat	Seminar on 'Basics of Industrial robotics & Applications'	19/12/2022 (One Day)	21,900	Rs 20,000/-
3	TRS-SC/19/004	AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER, MAHARASHTRA	3-days Workshop on 'Recent Advances in Robotics'	16/01/2023 (Three Days)	65,000	Rs 40,000/- for 3-days workshop.
4	TRS-SC/21/017	Narayana Engineering College, Nellore Town, AP	Workshop on 'Robotic Applications for Inter Disciplinary Environment'	(Two Days)	49,000	Rs 30,000/- for two-day workshop.
5	TRS-SC/21/011	Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, Kollam, Kerala	Robot Race Competition	(One Day)	20,000	Rs 10,000/-
6	TRS-SC/22/026	The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	Robotics Workshop	(Two Days)	26,000	Rs. 20,000/- for two days workshop
7	TRS-SC/21/013	Dr. D. Y. Patil Institute of Technology ,Pimpri, Pune, Maharashtra.	Workshop on 'Introduction to Robot Operating System'	7/11/22 to 10/11/22 (Four Days)	25,000	Rs 20,000/- for four-days workshop

8	TRSSC/22/025	Rajalakshmi Engineering College, Thandalam, Chennai, Tamilnadu	Workshop on "Tech "n" Bot	Nov 22(Four Days)	13,000	Rs. 25,000 for four- days workshop
9	TRSSC/22/021	Saintgits College of Engineering, Kottayam, Kerala	Workshop & Hackathon on 'Building ROS Based Robots'	1/2/2023 to 4/2/2023 (11 our Days)	66,000	Rs 38,000/- for four- days workshop
10	TRSSC/21/012	Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi	Symposium & Model Making Competition on 'Trends of Robotics in India'	20/12/2022 (One Day)	35,000	Rs 20,000/-
11	TRSSC/22/022	Sri Ramakrishna Engineering College, Vattamalaipalayam, Coimbatore	Workshop on 'Autonomous Mobile Robot Localization & Navigation Using ROS Platform'	23/11/2022 to 24/11/2022 (Two Days)	70,000	Rs 17,000/-

Annexure 3: Account statement

The Robotics Society
Receipts and Payments Account
For the year ended March 31, 2023

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Opening Balance:			
Cash	0		
Opening Bank Balance as on 1-4-2022	1,573,481.22	1573481.22	
Membership Fee:			
(a) Individual	236,000.00		
(b) Student-			
-- M.Tech/MS/PhD	16,520.00		
-- B.Tech	301,490.00		
(c) Corporate	0.00	554,010.00	
Other Payments -			
- To be refunded	12980		
- Fee Details pending	12980	25,960.00	
Total	2,153,451.22	Total	2,153,451.22

Compiled from the records and found correct.

For K.S GUPTA & CO.,
Chartered accountants
Firm Regd No. 001180N

(P.K. GUPTA)
Partner
M.No. 085506



Place: New Delhi
Dated: 04.07.2023
UDIN: 23083306BGWILH9613

The Robotics Society
Receipts and Payments Account
For the year ended July 01, 2023

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Balance b/d			
Cash	0.00	AIR, TRS renewal and Privacy Protection Charges	0.00
Opening Bank Balance as on 1-4-2023	16,73,601.22	Refund of Excess Payment	12,980.00
		Financial support to other Institutes	0.00
Membership Fee:		Bank Account Maintenance Charges	0.00
(a) Individual	80,240.00	TRS, Secretarial Assitaitship for Delhi and Chennai	72,000.00
(b) Student-		Professional Fee of KS Gupta & Company	0.00
-- M.Tech/MS/PhD	14,160.00	TDS paid to GOI	8,000.00
-- B.Tech	1,89,390.00		
(c) Corporate	0.00		
Transfer from Old Bank Account After Closing	0.00		
Other Payment	18,880.00	Closing Bank Balance as on 01-7-2023	18,83,291.22
Total	19,76,271.22		19,76,271.22

Annexure 4:**Elected Governing Council of TRS for 2023-2025**

Position	Name	Contact Details
President	Mr. Alok Mukherjee (Retd. Scientist, DRDO)	
Vice President (Acad)	Dr Ashish Dutta, IIT Kanpur	
Vice President (Ind)	Mr Sangeet Kumar, Addverb	
Vice President (R&D)	Dr Naresh C. Murmu, Director, CMERI	
Secretary	Dr Ekta Singla, IIT Ropar	
Treasurer	Dr Rama krishna K., IIT Delhi	
Publication Committee:		
Advisors	Dr Santanu Chaudhury, IIT Jodhpur Dr Subir Saha, IIT Delhi	
Co-ordinators	Dr Vineet Vasishta, IIT Gandhi Nagar Dr Ribi Abraham Boby, IIT Jodhpur	
Student Activity Coordinators	Dr Rajeev Lochana G. Chittawadigi, Amrita Vishwa Vidyapeetham, Bengaluru Dr Nayan Kakoty, Tezpur University	
Web Coordinator	Dr Srijjan Bhattacharya, RCCIIT, Kolkata	
Executive Members	Dr. Debanik Roy (BRNS Mumbai) Dr. Asokan T. (IIT Madras) Dr. Mohd Suhaib (Jamia Milia, Delhi) Dr. P. M. Pathak (IIT Roorkee) Dr. Shantipal Ohol (College of Engineering, Pune) Dr. A. P. Sudheer (NIT Calicut) Dr. Shital Chiddarwar (VNIT Nagpur) Dr. Tomohiro Shibata (Kyushutech, Japan) Dr. Sandipan Bandyopadhyay (IIT Madras) Dr. Ashish Singla (TIET Patiala) Dr. Suril V. Shah (IIT Jodhpur) Dr. Santakumar Mohan (IIT Palakkad) Dr. Hari Kumar Voruganti (NIT Warangal) Dr Ranjan Dasgupta, Principal Scientist - TCS Research	+91-9433239310

	<p>Student Members: Ms. Aishwarya Rao (IIT Gandhinagar) Mr. Subhash Pratap (IIT Guwahati) Mr. Shreyas Patel (IIT Ropar)</p>	