



ROBOCON

2022, NEW DELHI, INDIA
ABU ASIA-PACIFIC ROBOT CONTEST

JULY 16-17, 2022



DD ROBOCON 2022

ORGANIZED BY
IIT DELHI
IN COLLABORATION WITH
PRASAR BHARATI

GENERAL INFO.

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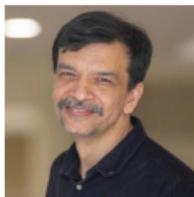
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MESSAGE FROM THE DIRECTOR, IIT DELHI



Prof. Rangan Banerjee

I have great pleasure in welcoming you to the finals of DD Robocon 2022. We at IIT Delhi feel proud to have the opportunity to host all the teams. We welcome you to explore our beautiful campus at Hauz Khas and interact with our students and faculty. Our institute hosts IHFC and a center of excellence in robotics. We are also planning specialized masters in Robotics.

We have chosen the traditional Bharatiya game of Lagori and converted it into the challenge for DD Robocon 2022. We believe that the competition will provide an arena for showcasing technology, innovation, strategy, precision, and team spirit. These events bring engineering alive and make it exciting. I wish all the teams well in your journey and hope the lessons learnt by you during these intense three days will hone your skills in robotics and propel you into a future in this area.

IIT Delhi looks forward to helping many of you on your future forays in robotics. Please reach out to our team of experienced and efficient organizers led by Prof. S. K. Saha, Prof. Sunil Jha, and Prof. K. Rama Krishna for any support.

Best of luck for DD Robocon 2022.

Prof. Rangan Banerjee
Director, IIT Delhi
July 2022

MESSAGE FROM THE CEO, PRASAR BHARATI

मयंक कुमार अग्रवाल, आई.आई.एस.
मुख्य कार्यकारी अधिकारी



Mayank Kumar Agrawal, IIS
Chief Executive Officer



प्रसार भारती | PRASAR BHARATI

July 09, 2022

Message

It is a matter of great pleasure that the 21st National DD Robocon 2022 is being organised by Prasar Bharati at Thyagraj Stadium in New Delhi in association with IIT Delhi on July 16 and 17, 2022.

I am also glad to know that more than 80 teams from various colleges of the country including many IITs and NITs have registered for the event. I am looking forward to watch the 45 shortlisted teams in action showcasing their robots at the event, which will be telecast live on DD Sports Channel. I am happy to know that the theme chosen by Indian Contest Committee of ABU Robocon is '**Lagori**' which is an ancient Indian game. Being the host country, it is an opportunity for India to nominate two winning teams in the national event to participate in the finale of the International ABU-Robocon on 21st August, 2022. I wish all the participating teams good luck for their performances on July 16 & 17, 2022!

I also take this opportunity to acknowledge the support of administration, students, staff and faculty volunteers of IIT-Delhi and the Committee of Judges and Referees drawn from various colleges and universities of India.

Jai Hind!

(Mayank Kumar Agrawal)



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E-mail : ceo@prasarbharati.gov.in • Website : www.prasarbharati.gov.in



दरबार
दूरदर्शन
Doordarshan

MESSAGE FROM ABU-ROBOCON SECRETARIAT



On behalf of ABU-Robocon Tokyo Secretariat, it is my pleasure to see DD-Robocon 2022 will be held physically at Thyagraj Stadium in New Delhi joined by IIT Delhi and Prasar Bharati.

I have been told that 83 teams submitted their Solution Idea proposals. From those, 45 teams were finally shortlisted to come to New Delhi to take part in the final round of DD-Robocon 2022 over two days July 16-17, 2022.

I understand they will play using the Online Game Rules. I am sure it will be interesting to see them competing in two different fields simulating as if they are from two different locations.

Even though I am not personally present in India, I have been regularly meeting online with the teams from Prasar Bharati and IIT Delhi to conduct the ABU Robocon 2022 in New Delhi. It is unfortunate that the international teams will not come physically on August 21, 2022, to India to compete but we have devised methodologies to play the games in our own countries/regions. Let us look forward to that event too.

All the best to the teams and the organizers of DD-Robocon 2022!

Tomohisa Arai
ABU Robocon Deputy Secretariat Chief
July 07, 2022

MESSAGE FROM THE ORGANISING COMMITTEE



Prof. S. K. Saha



Prof. Sunil Jha



Prof. Rama Krishna K.

It is a joyous occasion for all of us to host DD-Robocon 2022 physically in Thyagraj Stadium, New Delhi, after two years of the COVID pandemic during which DD-Robocons were organized based on video submissions only. It will be the fourth time in the history of DD-Robocon since 2002 that IIT Delhi will be hosting it in New Delhi in association with Doordarshan (Prasar Bharati).

This year is special as India will be hosting the ABU-Robocon 2022 in New Delhi again on August 21, 2022. In the history of ABU-Robocon, it will be held third time in India. However, we will be missing the physical presence of the international teams from various countries as there are travel restrictions in many countries. However, a unique plan is made to have the contest in such a way that two teams will play remotely in the fields located in their own countries. Let us hold our breath to watch those on August 21, 2022.

Coming back to DD-Robocon 2022, out of 83 teams registered for Stage 1, we shortlisted 45 teams to provide the opportunity to appear physically and possibly make it more competitive to have the best two teams represent the country for the ABU-Robocon 2022. India being the host of ABU-Robocon 2022, the onus was on us in 2020 to prepare the theme of the game, which we have taken from our traditional game called Lagori. It has other names as well, e.g., Saat Patthar, Sitoliya, etc. The preparation of the game theme started in 2020 by a set of experts including Prof. C. Amarnath (a retired professor from IIT Bombay) and ended in September 2021. The game theme was declared during the ABU-Robocon 2021 in China. As faculty, we feel that the event of Robocon is extremely meaningful to engineering students as they get about 6-8 months to make conceptual designs, make drawings, fabricate, and make strategies to win matches. Thus, they become industry-ready which is the need of the hour for the countries like India. Moreover, it generates entrepreneurial attitudes amongst the students. Many online robotics shops in India were actually the participants of DD-Robocon earlier.

We would like to congratulate all 83 teams for their participation in DD-Robocon 2022. Even if all could not come to New Delhi, let them be with us over the live telecast planned by Doordarshan during July 16-17, 2022. We also request them to keep their tempo up and proceed with the fabrication and operation of their robots for future research and/or product development to possibly open a start-up.

Now, it is time to acknowledge the enormous supports we received from the former CEO of Prasar Bharati, Mr. Shashi Vempati, present CEO, Mr. Mayank Agrawal, Mr. Sunil, Mr. Raman, Mr. Sandeep Sood, and many others. At IIT Delhi, we first thank our former and present Directors, Prof. V. Ramgopal Rao and Prof. Rangan Banerjee, respectively, for their encouragement, and all administrative and supportive staff for their kind cooperation to host the event in New Delhi in collaboration with Doordarshan (Prasar Bharati). Our thanks are also due to Mr. Himanshu Gupta, Director of the Delhi School Board who has offered the Thyagraj Stadium for the event. With his support, we are also able to reach out to a large number of school children for whom robotics is very very attractive. Support of the staff of IHFC (the Technology Innovation Hub of IIT Delhi) and FSM cannot be neglected who are the knowledge partners of this Mega Event. Many of us actually represent either of the non-for-profit companies owned by IIT Delhi.

Thanks are also due to all our sponsors, Addverb Technologies, AUTODESK, MathWorks and our other partner The Robotics Society (TRS). Finally, thanks to our most popular Chief Referee, Prof. T.P. Singh, other referees, and the judges Prof. A. Chakradeo, Prof. S.S. Ohol, and Prof. P.M. Pathak without whom the games could not be conducted smoothly.

Jai Hind!

Organizing Committee

HISTORY OF THE ABU ROBOCON

The ABU Asia-Pacific Robot Contest was founded in 2002 by the Asian-Pacific Broadcasting Union, where teams of undergraduate students build robots that compete to finish a set of tasks.

The aim of this contest was to increase the interest of young people to work together to solve problems and advance the engineering and broadcasting technologies of the region. The contest aims to create friendships among young people with similar interests who will lead their countries in the 21st century, as well as help advance engineering and broadcasting technologies in the region.

ROBOCONS like this were started in Japan by NHK in 1991, where colleges of Japan competed against each other.

Each year, the competition has a different topic and is usually chosen in accordance with a tradition or custom of the host country. The list of ABU ROBOCONS is below.

HISTORY OF THE ABU ROBOCON

| S.No | Year | Host City | Theme |
|------|------|------------------------|---|
| 1 | 2002 | Tokyo, Japan | Reach for the Top of Mt. Fuji |
| 2 | 2003 | Bangkok, Thailand | Takraw Space Conqueror |
| 3 | 2004 | Seoul, Korea | Reunion of Separated Lovers, Gyeonwoo & Jiknyeo |
| 4 | 2005 | Beijing, China | Climb on the Great Wall Light the Holy Fire |
| 5 | 2006 | Kuala Lumpur, Malaysia | Building the World's Tallest Twin Tower |
| 6 | 2007 | Hanoi, Vietnam | Halong Bay Discovery |
| 7 | 2008 | Pune, India | Govinda |
| 8 | 2009 | Tokyo, Japan | Travel Together for the Victory Drums |
| 9 | 2010 | Cairo, Egypt | Robo-Pharaohs built pyramids |
| 10 | 2011 | Bangkok, Thailand | Loy Krathong, Lighting Happiness with friendship |
| 11 | 2012 | Hong Kong | Peng On Dai Gat (In pursuit of peace and prosperity) |
| 12 | 2013 | Da Nang, Vietnam | The Green Planet |
| 13 | 2014 | Pune, India | A Salute for Parenthood |
| 14 | 2015 | Yogyakarta, Indonesia | Robominton |
| 15 | 2016 | Bangkok, Thailand | Clean Energy Recharging the World |
| 16 | 2017 | Tokyo, Japan | The Landing Disc |
| 17 | 2018 | Ninh Binh, Vietnam | "NÉM CÒN" The Festival Wishing Happiness & Prosperity |
| 18 | 2019 | Ulaanbaatar, Mongolia | GREAT URTUU: Sharing the knowledge |
| 19 | 2020 | Suva, Fiji | ROBO RUGBY 7s |
| 20 | 2021 | Jimo, China | Throwing Arrows into Pots |
| 21 | 2022 | New Delhi, India | LAGORI |

JUDGES AND REFEREE FOR DD-ROBOCON 2022

JUDGES

- Prof. A. Chakradeo
- Prof. S. S. Ohol
- Prof. P. M. Pathak
- and industry judges.

CHIEF REFEREE

- Prof. T. P. Singh

REFEREES

- Dr. Simran Jeet Singh (NSUT, New Delhi)
- Dr. Vinay Panwar (NSUT, New Delhi)
- Prof. Vinayant Agarwal (NSUT, New Delhi)
- Prof. Vinayant Agarwal (NSUT, New Delhi)
- Abhinav Dwivedi (JNU, New Delhi)
- Vikash Kumar (AK Garg College of Engg., Greater Noida)
- Puneet Saini (AK Garg College of Engg., Greater Noida)
- Dr. Mohammed Suhaib (Jamia Millia Islamia, New Delhi)
- Dr. Vinay Gupta (IEC College of Engg., Greater Noida)
- Dr. Deepak Negi (IIT Delhi)
- Dr. Rekha Sati Deoli (IIT Delhi)

ORGANIZING COMMITTEE MEMBERS

| | | | |
|----|---------------------------|----|-----------------------|
| 1 | Abdur Rahman Ansari | 29 | Bikash Mohapatra |
| 2 | Abhikalp Kaushik* | 30 | Bodhaditya Santra |
| 3 | Abhinav Gohar | 31 | Danyal Zia Siddiqui |
| 4 | Abhinav Upadhyay | 32 | Dasharath kushwaha |
| 5 | Ajay kumar | 33 | Davinder Pal Singh |
| 6 | Akash Kumar | 34 | Debabrata Dasgupta |
| 7 | Akhilesh Kumar | 35 | Deepak |
| 8 | Amandeep Sauda | 36 | Deepak Bhola |
| 9 | Anas Khalid | 37 | Devendra Agrawal |
| 10 | Anirban Nag | 38 | Devesh Kumar |
| 11 | Anita | 39 | Dharam Raj |
| 12 | Anjali Kumari | 40 | Dr. Simran Jeet Singh |
| 13 | Anjaneya Varaprasad | 41 | Dr. Sunil Kumar |
| 14 | Ankit | 42 | Dr. Varnita Verma |
| 15 | Annu Yadav | 43 | Dr. Vinay Panwar |
| 16 | Anubhav Dwivedi | 44 | Gaurav Kumar |
| 17 | Arpan Tiwari | 45 | Gaurav kumar sharma |
| 18 | Arun Kumar | 46 | Gireesh Dayma |
| 19 | Arya Ashokkumar | 47 | Gurdeep Singh |
| 20 | Ashish Dahiya* | 48 | Gyanendra Kumar Yadav |
| 21 | Ashish Kumar | 49 | Hamza Rouf |
| 22 | Ashish Vaid | 50 | Harsh Sharma |
| 23 | Ashok Kumar Pathak | 51 | Harshit Gupta |
| 24 | Atul Tahiliani | 52 | Hemant Kumar Saini |
| 25 | Ayush Malviya | 53 | Himanshu Sansanwal |
| 26 | Baibhav Kumar | 54 | Hukam Singh |
| 27 | Bhupendra Kumar Birahadia | 55 | Ishaan Jaiswal |
| 28 | Bichitra Panda | 56 | Jitender Kumar |

ORGANIZING COMMITTEE MEMBERS

| | | | |
|----|-------------------------|-----|---------------------------|
| 57 | Jitendra Prasad | 85 | Nitin Patel |
| 58 | Joshi Ram | 86 | Nitish Kumar |
| 59 | Jyoti Tiwari | 87 | Omar Farooq Khan Suri* |
| 60 | Kadeem | 88 | Pankaj Kumar |
| 61 | Kaustuv Manna | 89 | Pankaj Kumar Bhutiani |
| 62 | Krishan Kumar | 90 | Pankaj Sansanwal |
| 63 | Kuppam Venkatarathnam | 91 | Paras Gupta |
| 64 | Kusum Meena | 92 | Partho Chakrabarty |
| 65 | Mangal Sen | 93 | Piya basu |
| 66 | Manindra Singh | 94 | Pradyumn Tiwari |
| 67 | Manish Kumar | 95 | Pramod Ratnakar Khadilkar |
| 68 | Manoj Kumar | 96 | Prashant |
| 69 | Manoj Kumar | 97 | Prem Prakash Sharma |
| 70 | Mayank Anmol | 98 | Pritam Yogi |
| 71 | Mohammad Asadullah | 99 | Prithviraj Mukhopadhyay |
| 72 | Mohammad Faiz | 100 | Pulkit Goel |
| 73 | Mohini Akhriya | 101 | Puneet Tripathi |
| 74 | Mohit Vij | 102 | Rafiq Mohammad |
| 75 | Mudita Soni Vij | 103 | Rahul |
| 76 | Muhammad Abdullah Majid | 104 | Rahul Agrawal |
| 77 | Munna Pati | 105 | Rahul Vaid |
| 78 | Murtaza Ahmed | 106 | Raj Kumar Gupta |
| 79 | Musab Masood* | 107 | Rajat Kumar Varshney |
| 80 | Muskan Ahmad | 108 | Rajeev Kumar |
| 81 | Naman Kapoor | 109 | Rajesh Bhatt |
| 82 | Naveen Verma | 110 | Rama Krishna K |
| 83 | Navneet Kumar | 111 | Raman Kumar |
| 84 | Niraj Pande | 112 | Ramji Lal |

ORGANIZING COMMITTEE MEMBERS

| | | | |
|-----|-------------------------|-----|-------------------------|
| 113 | Ravindra Kumar | 140 | Sourabh |
| 114 | Raza Ahmed* | 141 | Sourabh Sejwal |
| 115 | Ritwick Pahari | 142 | Subhash Chand |
| 116 | Rohit Kumar | 143 | Subhra Datta |
| 117 | Rohit Kumar Manhas | 144 | Subir Kumar Saha |
| 118 | Rohit Manhas | 145 | Sudarsan Ghosh |
| 119 | RP Koshi | 146 | Sudesh Rani |
| 120 | Rudra Prakash | 147 | Sudhansu Kumar pradhan |
| 121 | Rudra Prakash | 148 | Sujith.s |
| 122 | S.Vishnukumar | 149 | Sunil |
| 123 | Sachin Kumar | 150 | Sunil Jha |
| 124 | Sandeep Dahiya | 151 | Sunil Kumar Sharma |
| 125 | Sandeep Kumar* | 152 | Suranita Kanjilal |
| 126 | Sanjeet Singh | 153 | Syed Arham Ali |
| 127 | Sanjeev Kumar | 154 | Tariq Umer |
| 128 | Satish Kumar | 155 | Tarun Kumar |
| 129 | Saurabh Saini | 156 | Tushar Sharma |
| 130 | Sharad Agrahari | 157 | Udayan Banerjee |
| 131 | Shashank Tiwari | 158 | Utkarsh Roy |
| 132 | Shifa Syed | 159 | Vaibhav Anand |
| 133 | Shishir Singh Shekhawat | 160 | Vansh Rastogi |
| 134 | Shiv Bhawan Shivhare | 161 | Veeranna Daravath |
| 135 | Siddharth Srivastava | 162 | Vikash Kumar |
| 136 | Sobaran Singh | 163 | Vikash Kumar Singh |
| 137 | Sohrab Sanjar | 164 | Vinayak Sudalal |
| 138 | Sonu Gaur | 165 | Viveka Bikasha Satpathy |
| 139 | Sonu Kumar | | |

*These members have compiled the content for this General Information booklet.

DAY-1 PRACTICE GAME SCHEDULE

| 14-07-2022 (Thursday) | | |
|-----------------------|--|---------------|
| Practice | | 15:00 - 20:00 |
| Slot | Team | Time |
| 1 | St. Francis Institute of Technology | 15:00 - 15:15 |
| 2 | MIT Academy Of Engineering, Alandi (D), Pune | 15:20 - 15:35 |
| 3 | Parul Institute of Technology , Parul University | 15:40 - 15:55 |
| 4 | A. D. Patel Institute of Technology | 16:00 - 16:15 |
| 5 | Pune Institute of Computer Technology | 16:20 - 16:35 |
| 6 | Government College of Engineering and Research Avasari Khurd, Pune | 16:40 - 16:55 |
| 7 | Bannari Amman Institute Of Technology (Alpha) | 17:00 - 17:15 |
| 8 | Bannari Amman Institute Of Technology (Assault) | 17:20 - 17:35 |
| 9 | Bannari Amman Institute Of Technology (Nova) | 17:40 - 17:55 |
| 10 | Bannari Amman Institute Of Technology (Innovators) | 18:00 - 18:15 |
| 11 | Bannari Amman Institute Of Technology (Vitality) | 18:20 - 18:35 |
| 12 | MIT World Peace University, Pune | 18:40 - 18:55 |
| 13 | MKSSS's Cummins College Of Engineering For Women, Pune | 19:00 - 19:15 |
| 14 | SRM Institute of Science and Technology, Kattankulathur | 19:20 - 19:35 |
| 15 | U.V.Patel College of Engineering, Ganpat University | 19:40 - 19:55 |

| Shuttle Schedule | | | | | | |
|------------------|-------------------------------|-------|---------------------------|-------|-------------------------------|-------|
| Date | Morning (IITD → Thyagaraj) | | Day (IITD ↔ Thyagaraj) | | Evening (Thyagaraj → IITD) | |
| | First | Last | First | Last | First | Last |
| 14.07.2022 | - | - | 13:00 | 15:00 | 18:30 | 22:00 |
| 15.07.2022 | 06:30 | 08:30 | 11:30 | 13:30 | 18:30 | 22:00 |
| 16.07.2022 | 06:30 | 08:30 | Lunch at Thyagaraj | | 18:30 | 22:00 |
| 17.07.2022 | 06:30 | 08:30 | 11:30 | 13:30 | 18:30 | 22:00 |

NOTE : *EACH TEAM WILL GET 15 MINUTES OF TIME FOR PRACTICE

**5 MINUTES CHANGE OVER TIME AND SETUP TIME

****RESCHEDULING OF TIMING WILL ONLY OCCUR IF BOTH TEAMS ARE AGREE FOR IT

DAY-2 PRACTICE GAME SCHEDULE

| 15-07-2022 (Friday) | | |
|----------------------------|--|---------------|
| Practice | | 09:00 - 21:00 |
| Slot | Team | Time |
| 16 | PES Modern College of Engineering, Pune | 09:00 - 09:15 |
| 17 | Government College of Engineering, Amravati | 09:20 - 09:35 |
| 18 | JSPM's Rajarshi Shahu College of Engineering, Pune | 09:40 - 09:55 |
| 19 | Gujarat Technological University | 10:00 - 10:15 |
| 20 | Government College Of Engineering, Aurangabad | 10:20 - 10:35 |
| 21 | BRACT's Vishwakarma Institute of Technology, Pune | 10:40 - 10:55 |
| 22 | MIT ADT University | 11:00 - 11:15 |
| 23 | Kalinga Institute of Industrial Technology | 11:20 - 11:35 |
| 24 | Fr. Conceicao Rodrigues Institute of Technology, Vashi | 11:40 - 11:55 |
| 25 | L. D. College Of Engineering | 12:00 - 12:15 |
| 26 | LJ University | 12:20 - 12:35 |
| LUNCH BREAK | NO TEAMS ARE ALLOWED FOR PRACTICE DURING THIS TIME | |
| 27 | Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded | 12:45 - 14:45 |
| 28 | KJ. Somaiya Institute of Engineering and Information Technology, Sion | 15:00 - 15:15 |
| 29 | Dwarkadas J. Sanghvi College of Engineering | 15:20 - 15:35 |
| | | 15:40 - 15:55 |

NOTE : *EACH TEAM WILL GET 15 MINUTES OF TIME FOR PRACTICE

**5 MINUTES CHANGE OVER TIME AND SETUP TIME

****RESCHEDULING OF TIMING WILL ONLY OCCUR IF BOTH TEAMS ARE AGREE FOR IT

DAY-2 PRACTICE GAME SCHEDULE

| 15-07-2022 (Friday) | | |
|---------------------|---|---------------|
| Practice | | 09:00 - 21:00 |
| Slot | Team | Time |
| 30 | KJ Somaiya College of Engineering | 16:00 - 16:15 |
| 31 | A. C. Patil College of Engineering Kharghar, Navi Mumbai | 16:20 - 16:35 |
| 32 | SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering, Mumbai | 16:40 - 16:55 |
| 33 | Fr. Conceicao Rodrigues College Of Engineering | 17:00 - 17:15 |
| 34 | Pimpri Chinchwad College of Engineering | 17:20 - 17:35 |
| 35 | Marathwada Mitra Mandal's College Of Engineering, Pune | 17:40 - 17:55 |
| 36 | BIRLA VISHVAKARMA Mahavidyalaya Engineering College | 18:00 - 18:15 |
| 37 | Institute of Technology, Nirma University | 18:20 - 18:35 |
| 38 | College of Engineering Pune | 18:40 - 18:55 |
| 39 | Sardar Patel College of Engineering, Andheri, Mumbai | 19:00 - 19:15 |
| 40 | Presidency University, Bengaluru. | 19:20 - 19:35 |
| 41 | Ajay Kumar Garg Engineering College | 19:40 - 19:55 |
| 42 | PadmabhooshanVasantdada Patil Institute of Technology - (PVPIT) Bawdhan, Pune | 20:00 - 20:15 |
| 43 | Mahindra University | 20:20 - 20:35 |

NOTE : *EACH TEAM WILL GET 15 MINUTES OF TIME FOR PRACTICE

**5 MINUTES CHANGE OVER TIME AND SETUP TIME

****RESCHEDULING OF TIMING WILL ONLY OCCUR IF BOTH TEAMS ARE AGREE FOR IT

GAME SCHEDULE

16-07-2022 (Saturday)

| League Matches | | | 09:30 ~ 19:00 |
|-------------------------|-----|-------|---------------|
| Match No | RED | BLUE | Time |
| 1 | A1 | A2 | 09:30 |
| 2 | B1 | B2 | 09:45 |
| 3 | C1 | C2 | 10:00 |
| 4 | D1 | D2 | 10:15 |
| 5 | E1 | E2 | 10:30 |
| 6 | F1 | F2 | 10:45 |
| 7 | G1 | G2 | 11:00 |
| 8 | H1 | H2 | 11:15 |
| 9 | I1 | I2 | 11:30 |
| 10 | J1 | J2 | 11:45 |
| 11 | K1 | K2 | 12:00 |
| Inaugural Ceremony | | 12:30 | 13:15 |
| Lunch Break (Thyagaraj) | | 13:15 | 14:00 |
| 12 | L1 | L2 | 14:15 |
| 13 | M1 | M2 | 14:30 |
| 14 | N1 | N2 | 14:45 |
| 15 | O1 | O2 | 15:00 |
| 16 | A2 | A3 | 15:15 |
| 17 | B2 | B3 | 15:30 |
| 18 | C2 | C3 | 15:45 |
| 19 | D2 | D3 | 16:00 |
| 20 | E2 | E3 | 16:15 |
| 21 | F2 | F3 | 16:30 |
| 22 | G2 | G3 | 16:45 |
| 23 | H2 | H3 | 17:00 |
| 24 | I2 | I3 | 17:15 |
| 25 | J2 | J3 | 17:30 |
| 26 | K2 | K3 | 17:45 |
| 27 | L2 | L3 | 18:00 |
| 28 | M2 | M3 | 18:15 |
| 29 | N2 | N1 | 18:30 |
| 30 | O2 | O1 | 18:45 |

GAME SCHEDULE

| 17-07-2022 (Sunday) | | | |
|--|-----|-------|---------------|
| League Matches and Finals | | | 09:30 ~ 19:00 |
| Match No | RED | BLUE | Time |
| 31 | A3 | A1 | 09:30 |
| 32 | B3 | B1 | 09:45 |
| 33 | C3 | C1 | 10:00 |
| 34 | D3 | D1 | 10:15 |
| 35 | E3 | E1 | 10:30 |
| 36 | F3 | F1 | 10:45 |
| 37 | G3 | G1 | 11:00 |
| 38 | H3 | H1 | 11:15 |
| 39 | I3 | I1 | 11:30 |
| 40 | J3 | J1 | 11:45 |
| 41 | K3 | K1 | 12:00 |
| 42 | L3 | L1 | 12:15 |
| 43 | M3 | M1 | 12:30 |
| Lunch Break (IITD) | | 12:45 | 14:15 |
| 44 | Q1 | Q8 | 14:30 |
| 45 | Q2 | Q7 | 14:45 |
| 46 | Q3 | Q6 | 15:00 |
| 47 | Q4 | Q5 | 15:15 |
| 48 | S1 | S4 | 16:00 |
| 49 | S2 | S3 | 16:15 |
| 50 | F1 | F2 | 17:00 |
| Closing Ceremony | | 17:45 | 19:00 |
| Total teams 43 | | | |
| 15 Groups. Numbered as A to O | | | |
| 13 Groups are of 3 teams and 2 Groups are of 2 teams each | | | |
| <p style="color: red;">Note: Buses will be available to take lunch at IITD. See page 14 for Shuttle Schedule.</p> | | | |

Field Layout for DD-ROBOCON 2022



LIST OF AWARDS

DD-ROBOCON 2022 awards

- Winner
- 1st Runner-up
- 2nd Runner-up
- Prof. Balakrishna Memorial Award (For the First Winner)

Sponsor Awards

- Best Report Award
- IHFC Award (Sponsored by the Technology Innovation Hub for Cobotics at IIT Delhi)

Awards by Autodesk Design

- Best Fusion Design Award
- Fusion Innovation Design Award + Robot fabrication support
- Fusion Impact Award - National Winner

Awards by Addverb Technologies

- Visvesvaraya Design Award for Best Design
- PARAM Software Award for the Best Software
- Abdul Kalam Award for the Best New Team

DD-ROBOCON 2022

PARTICIPANTS



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

1. ADITYA RANJAN (TEAM LEADER)
2. SHIVANS AWASTHI
3. PURENDRA VISHWAKARMA
4. ROHIT MUNDHRA
5. KAIWALYA DESHPANDE
6. VARSHIKA SHRIVASTAV



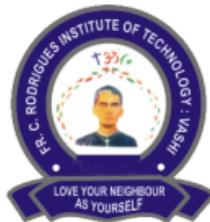
AJAY KUMAR GARG ENGINEERING COLLEGE (AKGEC)

1. AMAN MISHRA (TEAM LEADER)
2. HIMANSHU GAUTAM
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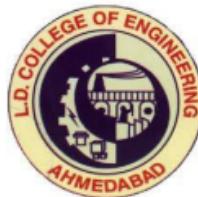
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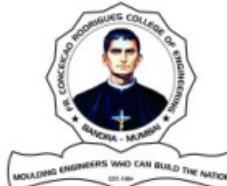
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Where knowledge is second nature

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36. PRAJWAL SURYKANT NALAWADE
37. SUSHANT ULHAS CHAUDHARI
38. SUKHADA SANJAY CHANDAVALE
39. PRASHIK PRAVIN CHAVAN
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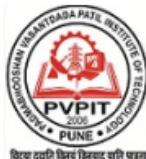
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7. DONGA ARYAN GIRISHKUMAR
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| 16. GAURAV KONDHALKAR | |
| 17. PRATIK SHINDE | |
| 18. JAIRAJ SHETKAR | |
| 19. KUNAL SATPUTE | |
| 20. PREETI DEVRAS | |
| 21. SHREYAS BHAGAT | |
| 22. SIDDHESHPATIL MAHAGAONKAR | |

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*Teams 1-23: Group A : Hostel Name- Dronagiri; Mess Name- Girnar

| S. No. | College Name | Team Name |
|--------|---|------------------------------|
| 1 | Government College Of Engineering Aurangabad | GECA |
| 2 | MIT World Peace University, Pune | MIT WPU Tech |
| 3 | Parul Institute of Technology, Parul University | PU Robocon |
| 4 | St. Francis Institute of Technology | Robotics and Automation Wing |
| 5 | Presidency University, Bengaluru. | VIKASANA |
| 6 | KJ Somaiya College of Engineering | KJSCE Robocon |
| 7 | L. D. College of Engineering | ROBOCON LDCE |
| 8 | Institute of Technology, Nirma University | Nirma Robocon |
| 9 | SRM Institute of Science and Technology, Kattankulathur | SRM Team Robocon |
| 10 | Fr. Conceicao Rodrigues Institute of Technology, Vashi | Agnel Robocon |
| 11 | Marathwada Mitra Mandal's College of Engineering, Pune | Rudra |

Hostel Allotments @IITD

*Teams 1-23: Group A : Hostel Name- Dronagiri; Mess Name- Girnar

| S. No. | College Name | Team Name |
|--------|---|------------------------------------|
| 12 | L.J. University | Falcon |
| 13 | A D Patel Institute of Technology | ARJUN |
| 14 | Government College of Engineering and Research Avasari Khurd, Pune | ABHEDYA |
| 15 | Government College of Engineering, Amravati . | Robo-Tech Forum |
| 16 | JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune | Cipher |
| 17 | Bannari Amman Institute of Technology (Team: ALPHA) | ALPHA |
| 18 | SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering, Mumbai | Technotix, MPSTME |
| 19 | A. C. Patil College Of Engineering Kharghar Navi Mumbai | ACPCE TEAM ROBOCON |
| 20 | Bannari Amman Institute of Technology (Team: ASSAULT) | ASSAULT |
| 21 | Dwarkadas J. Sanghvi College of Engineering | DJS Robocon |
| 22 | Bannari Amman Institute of Technology (Team: NOVA) | NOVA |
| 23 | Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded | RNXG(Robotics for Next Generation) |

Hostel Allotments @IITD

*Teams 24-43: Group B : Hostel Name- Saptagiri; Mess Name- Satpura

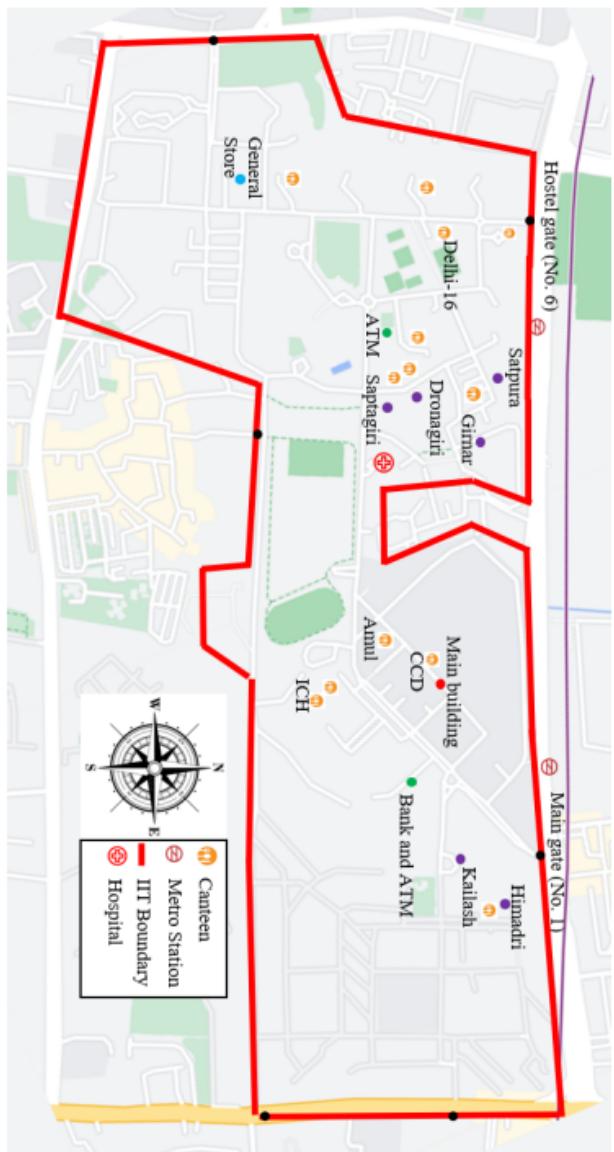
| S. No. | College Name | Team Name |
|--------|--|---|
| 24 | Bannari Amman Institute of technology (Team: Innovators) | Innovators |
| 25 | Kalinga Institute of Industrial Technology | SKYPAVAR |
| 26 | U.V. Patel College of Engineering, Ganpat University | UTKARSH |
| 27 | BRAC'TS Vishwakarma Institute of Technology, Pune | BRACT'S Vishwakarma Institute of Technology, Pune |
| 28 | College of Engineering Pune | COEP |
| 29 | MIT Academy Of Engineering, Alandi (D), Pune | Invictus |
| 30 | Sardar Patel College of Engineering | SPCE Robocon |
| 31 | Pune Institute of Computer Technology | PICT Robotics |
| 32 | Mahindra University | MU |
| 33 | Bannari Amman Institute of Technology (Team:VITALITY) | VITALITY |
| 34 | KJ. Somaiya Institute of Engineering and Information Technology, Sion | KJSIEIT Robocon |
| 35 | Padmabhooshan Vasantdada Patil Institute of Technology - (PVPIT) Bavdhan, Pune | Tech-Titans |

Hostel Allotments @IITD

*Teams 24-43: Group B : Hostel Name- Saptagiri; Mess Name- Satpura

| S. No. | College Name | Team Name |
|--------|--|-------------------|
| 36 | MKSSS's Cummins College Of Engineering For Women Pune | Aaveg |
| 37 | Ajay Kumar Garg Engineering College | Enginerds |
| 38 | Gujarat Technological University | GTU Robotics Club |
| 39 | Fr. Conceicao Rodrigues College Of Engineering | Robocon CRCE |
| 40 | Birla Vishwakarma Mahavidhayala Engineering College, Anand, Gujrat | PANCHJANYA |
| 41 | MIT ADT University | Volta |
| 42 | P.E.S. Modern College of Engineering, Pune | Vulcans |
| 43 | Pimpri Chinchwad College of Engineering | Automatons |

IITD Campus Map



Technical Demo @DD ROBOCON 2022

1.

Mecanum Wheel Robot

The mecanum wheel is an omnidirectional wheel design for a land-based vehicle to move in any direction.



2.

AMR

In this demonstration, the static obstacles will be arranged and the environment will be scanned by the robot after which the commands could be given to the AMR to go from its starting position toward the end goal while asking some volunteers to randomly move around in the arena thus demonstrating Autonomous Static & Dynamic Obstacle Avoidance.



3.

TOTO (Tele-Operation and Tele-Observance) Mobile Robot

TOTO is a confident first-generation robot that aspires to be a fully functional and intuitive Telepresence Robot Assistant. TOTO can do obstacle avoidance, autonomous docking, and tele-observance.



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