



Ref: Ref: GTU/CiC3/ROBOTICS CLUB/6195

Date: 16th July 2019

Report on

Team Formation: GTU ROBOTICS CLUB for 2019-20

More than 15 institutions affiliated to Gujarat Technological University (GTU) have been Participating at various levels of national and international Robotics and Automation Competition. GTU has been pioneering in bringing intervention and sphere heading best Practices which have been attempted at various college levels. GTU believes that given a Support system at central level, infusing better resource capital, extending a superior hand Holding facility and bootstrapping complimentary skill sets of various teams and their members These students can outperform any other team at national and international.

Team GTU ROBOCON & Mitsubishi Electric Cup is a result of the above mentioned Ideology and Initiative from GTU. Team GTU ROBOCON is ROBOTICS student team& Mitsubishi Electric Cup is Automation Student Team of Gujarat Technological University (GTU) based GTU Chandkheda, Ahmedabad, Gujarat. The Team was formed in April 2015 with 11 GTU Affiliated Colleges signing the MOA to form a Team under GTU. The team has a well blend mixture of juniors with their energy and passion and seniors with their talent and experience. Here at ROBOTICS CLUB (Robocon & Mitsubishi Electric Cup) we build Autonomous and Manual Robots and Automation Product and learning teamwork, design and manufacturing skills along the way. We represent GTU at 4National/International Competition each year namely: DD ROBOCON, Mitsubishi Electric Cup, Smart India & Gujarat Hack A Thon.

Our ambition is to bring GTU ROBOTICS CLUB closest to a “real-world engineering experience”, not strictly limited to Design ROBOTS and Automation Product. The team was formed for the students to enhance their learning experience and to go from book smart to street smart. Our motto being “Building People, not just ROBOTS & Automation” we focus on overall development of an individual joining the Team.

Recruitment Campaigning:

On 12th June, 2019 The recruitment Circular & poster was uploaded by the team on the GTU Website , Facebook page & Instragram Page of Team GTU ROBOCON. Students were given the link and QR code which can redirect them to the google form where they were supposed to register themselves. GTU Innovation Council, Community Innovation & Co-creation Centre also uploaded the same on their Facebook page on 12th June, 2019. For the recruitment campaigning, every team member went to their own college and other colleges nearby to them

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for spreading the word by putting on Posters. Also, each team member sent the post and poster to every student present in their contact list of WhatsApp. For students who could not be able to register themselves due to some reasons till the deadline of 5th July, 2019 were given another chance for registration on the recruitment day.

Circular for Team Formation:

The final dates for Recruitment were finalized taking into consideration all the aspects of students' issues and examination schedule. Team GTU ROBOTICS CLUB drafted a team formation Circular for the GTU's website. The Circular was uploaded by GTU on 12th June, 2019. The link for the same is as mentioned below:

https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Team%20formation_Circular%20for%202019-20_630935.pdf

Along with the circular, Mails were sent to all the Principals and Head of Departments of every college affiliated to GTU. Students from all the Affiliated College were invited to take part in the Team Formation process irrespective of their Engineering Domain.

Poster on Website

GTU Robotics Club CiC3

TEAM FORMATION 2019-20

Date	Interview Date
06th July, 2019	07th July, 2019

VENUE
M BLOCK, VGEC CAMPUS,
CHANDKHEDA, AHMEDABAD

FOR MORE INFORMATION VISIT US ON:
<https://gturobocon.wixsite.com/home>

FOR QUERIES CONTACT:
RAJ HAKANI
+91-7574801054

WORKPLACE:
GUJARAT TECHNOLOGICAL UNIVERSITY
SHED NO. 2, VGEC CAMPUS,
CHANDKHEDA, AHMEDABAD-382424

TO JOIN US

FOLLOW US ON:

- /gturoboconteam
- /gtu_robocon_team
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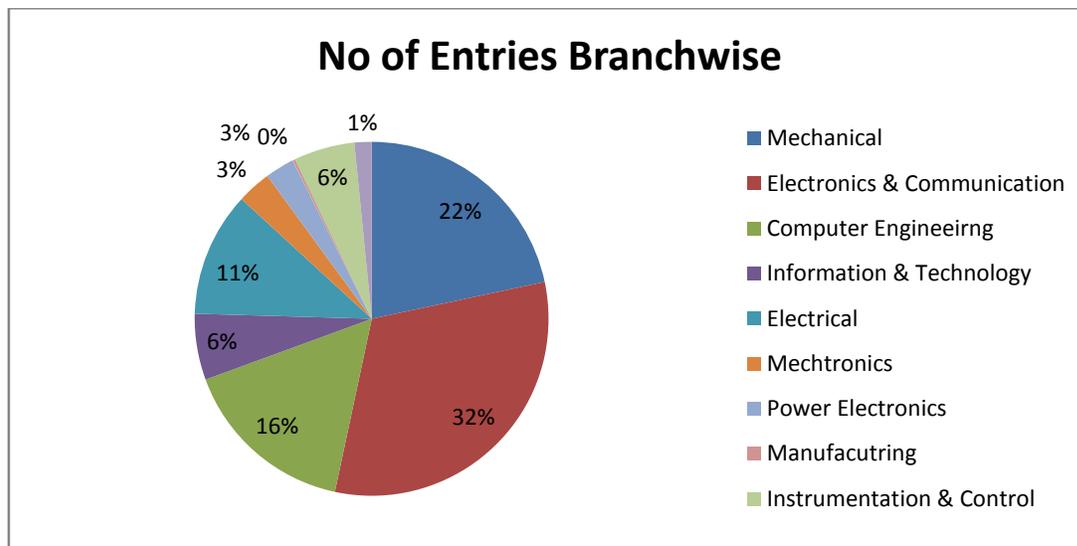


Outreach at Colleges



Responses for Recruitment Process:

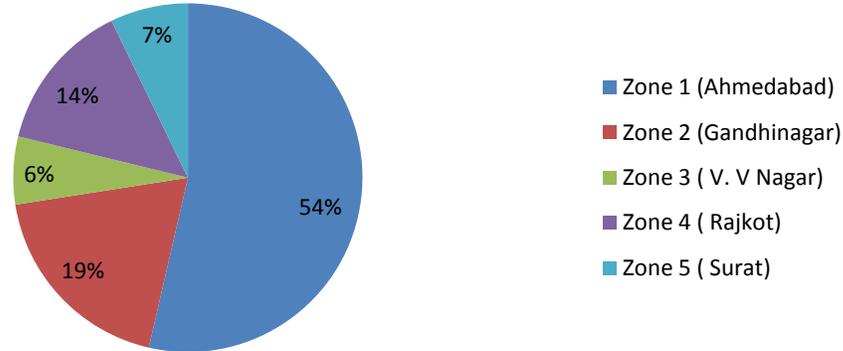
It gives us immense pleasure to inform everyone that this year's team formation had surpassed our expectations and is a major leap towards University's Goal of Inclusion & Co-Creation. In 25 Days of registration we had 448 Registrations from colleges all across the State. Students from nearly 34 Colleges participated in being a member to the Team. Out of these Entries 398 Entries were shortlisted for the Recruitment Process. Statistics for the Registration can be seen in the Charts Below:



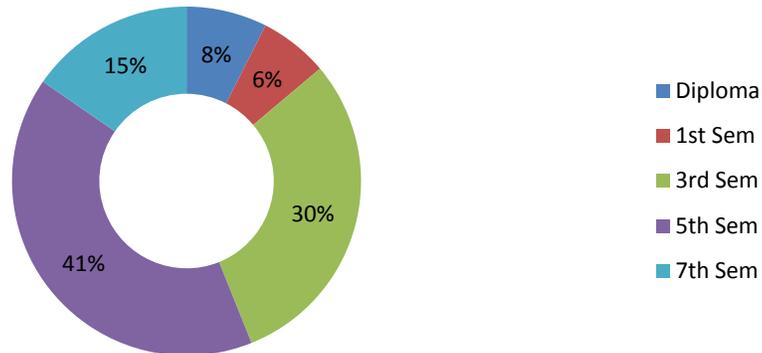
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No of Entires Zonewise



Entry Count of Semesterwise



Students ranging from Diploma, BE 1st year to BE 4th Year were seen registering for the Selection Process.

Selection Procedure:

The Selection procedure is divided into 3 parts:

1. Written Test.
2. Personal Interview.
3. Personal Work Assessment.

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ON Registration Day

A Registration desk was be set-up at the test Venue. All students were instructed to register on the Desk and get their documents verified by the Support team on the desk. They were supposed to report at the test venue 30 minutes prior to their Written test. Candidates were informed to carry their College ID card and any Valid Government approved photo ID Card (i.e. Driving License, VoterID, Aadhar Card).

IDENTIFICATION CODE DESCRIPTION:

GRC19/E (Circuitry Branch including EC, IC, CE, IT, Power Electronics, Elec.)

Student applied in this group had to go through a screening written exam which was followed by a task. Interview was conducted on next day of written exam.

Written Test:

Written Test The written test was divided into 5 sections:

Section A: This was common and general information section. In which student wrote about their past project works, achievement and their knowledge (information) regarding GTU ROBOTICS CLUB and Events. There were 5 questions. 2 marks were awarded for each answer and 1 mark for partially correct answer.

Section B: This section was aptitude section. In which general mathematics, puzzle type of question were asked. There were 10 questions. 1 marks were awarded for each corrected answer.

Section C: This section was Hardware section. In which would test their basic conceptual understanding of Electricals and electronics, this section was consist of 10 multiple choice questions. 1 marks were awarded for each corrected answer.

Section D: This section was Software section. In which would test their basic programming skill, this section was consist of 10 multiple choice questions. 1 marks were awarded for each corrected answer.

Section E: This section was Rulebook section. In which basic knowledge were tested related to National rule book.

Personal Interview

Personal interview was conducted after they registered. The interview was designed to judge their creative thinking, knowledge of basic principles and software knowledge was evaluated. Along with the

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Hardware skills was also examined. They were instructed to be presentable and bring their portfolio. (Instructed about it through mail).

GRC19/M (Mechanical Branch including Mech, Mechatronics, Automobile)

Section A: This was common and general information section. In which student wrote about their past project works, achievement and their knowledge (information) regarding GTU ROBOTICS CLUB and Events. There were 5 questions. 2 marks were awarded for each answer and 1 mark for partially correct answer.

Section B: This section was aptitude section. In which general mathematics, puzzle type of question were asked. There were 10 questions. 1 marks were awarded for each corrected answer.

Section C: This section contained technical mcqs. Their basic conceptual understanding regarding mechanical systems and machineries were tested. It contained 10 mcqs each of 1 mark.

Section D: This section was to showcase their mechanism developing capability. Depending upon situation they had to develop efficient mechanism.

Section E: This section was Rulebook section. In which basic knowledge were tested related to National rule book.

Personal Interview

Personal interview was conducted after they registered. The interview was designed to judge their creative thinking, knowledge of basic principles and software knowledge was evaluated. Along with the Hardware skills was also examined. They were instructed to be presentable and bring their portfolio. (Instructed about it through mail).

GRC19/MG (Non Technical Branch interested student for Management)

Written Test

Written Test The written test was divided into 4 sections:

Section A: This was common and general information section. In which student wrote about their past project works, achievement and their knowledge (information) regarding GTU ROBOTICS CLUB and Events. There were 5 questions. 2 marks were awarded for each answer and 1 mark for partially correct answer.

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Section B: This section was aptitude section. In which general mathematics, puzzle type of question were asked. There were 10 questions. 1 marks were awarded for each corrected answer.

Section C: This section was Rulebook section. In which basic knowledge were tested related to National rule book.

Section D: This section was content writing. They were given content development on some topic like, a formal mail and an informal content for the social media post.

Group Discussion

Students were given three topics, where they have to choose one to be discussed in group discussion. Their knowledge of the topic, listening, communication skills, body language and appearance and leadership skills was judge by the panel.

Personal Interview:

Personal interview was conducted after they qualified the written test. The 15 min interview would judge their real self. From their knowledge to all the soft skills, that they as a team represented and a good team player must possess, was examined by the experienced team members and alumni. They were instructed to be presentable and bring the necessary documents (instructed about it through mail).

Glimpse of Team formation Process



Registration Desk at Exam Venue

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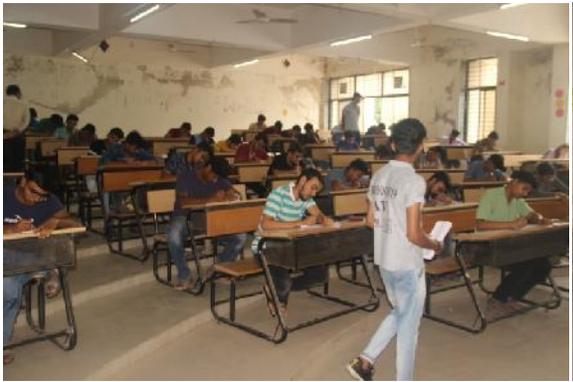
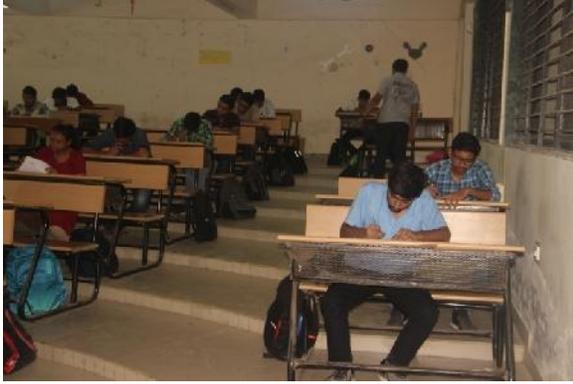


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Written Exam



Waiting Area for Personal Interview

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Personal Interview Mechanical (Fabrication & Design)



Personal Interview Electronics (Software & hardware)

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Personal Interview Management

GTU ROBOTICS CLUB will provide training to Selected and Non selected student from 10th July 2019. and advance training will be start from 25th July 2019 for selected students.

Report Prepared by:
Prof. Raj Hakani
Asst. Prof. , CiC3

Sd/-
Registrar

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