# **Students' Technical Activities Body: Hobby Clubs**

Club	Organizing	Participation	Events
	committee	•	
Aeromodelling	6 members (1 manager + 4UG convener + 1 PG Convener)	250 UG freshmen 100 UG seniors 50 PG students	<ul> <li>Workshops and flying sessions</li> <li>Competitions</li> <li>Advance Flying session</li> <li>Lighter than Air Airship Project</li> <li>Lecture Series</li> </ul>
Electronics	11 members (2 Managers + 7 UG Conveners + 2 PG Conveners)	400 UG freshmen 200 UG seniors 150 PG students	<ul> <li>Basic and advanced electronics and hands-on sessions</li> <li>Hardware Hackathon to promote start-up ideas</li> <li>Talks and informal discussions</li> <li>Competitions – Line follower, circuit designing</li> </ul>
Krittika (Astronomy)	7 members (1 Manager, 4 UG convener, 2 PG convener)	100 UG freshmen 50 UG seniors 50 PG freshmen	<ul><li>Night watches</li><li>Observation Sessions</li><li>Astronomy Visits</li></ul>
Maths and Physics	7 members (1 Manager + 5 UG Conveners + 1 PG convener)	200 UG freshmen 200 UG seniors 100 PG students	<ul> <li>Competitions: Bazinga (Exclusive Maths and Physics Quiz), Maths Olympiad, Logic GC</li> <li>Lectures by eminent professors</li> <li>Group discussions</li> <li>Lab visits</li> </ul>
Robotics	12 members (2 Managers + 8 UG Conveners + 2 PG Conveners)	400 UG freshmen 200 UG seniors 150 PG students	<ul> <li>Competitions (XLR8) and abstract based events</li> <li>Hobby projects</li> <li>Tech talks</li> <li>Informal sessions and group discussions</li> </ul>
Web and Coding	12 Members ( 2 Managers + 9 UG Conveners + 1 PG Conveners)	20-30 active people online, Around 100 coders in total, 2-3 discussions a week online	<ul> <li>Hackathon</li> <li>Talks</li> <li>Workshops</li> <li>Informal Discussion</li> <li>Miscellaneous events</li> </ul>

### **Students' Technical Activities Body:**

#### **Technovation Program and Infrastructure**

Technovation	Organizing Committee	Participation	Projects
	8 Members (3 Managers, 4 UG Conveners, 2 PG conveners)	Mentors Committee: 15-20 senior UG and PG student 7-8 projects taken per year	<ul> <li>Summer Technovation 2014 – Low Cost CNC machine, Refreshable Braille Display, Tricopter, Circuit Testing Device</li> <li>Past Years' projects – Tum-Tum Tracker, Parinat (humanoid robot), Electronic notice board</li> </ul>

### Tinkerers' Lab (TL)

(It is an alumnus funded and student run lab inside the institute)

Organizing	Participation	Equipments and Facilities in TL	
Committee			
8 Members	400 UG freshmen	Mechanical	Electronics
(3 Managers, 4 UG	200 UG seniors Conveners, 2 PG conveners)  118 ITSP projects, 7 summer Technovation projects and various other hobby projects	Intelitek CNC turn	Kinect
•		Intelitek CNC bench	Leap Motion
conveners)		3-D printer	Beaglebone
		Lathe	Raspberry Pi
		Milling	Arduino
		Bench and hand grinder	Soldering Station
		Wired and wireless drilling	Various ICs
		machine	
		Column Drill	Voltage source
		Bosch Jig saw and circular	Digital Storage Oscilloscope
		saw	
		Welding machine	Frequency generator
		All kinds of Tools,	All kinds of registers and
		Nuts and bolts	capacitors
		Safety helmets, goggles,	Wifi and Ethernet ports
		Welding helmets, shoes	throughout the lab

# **Technical Teams participating in International Competitions**

Competitions / Events/Clubs	Participation	Place of Participation	Achievements
Innovation Cell, IIT	IGVC :-	IGVC :-	First team to clear Auto Nav
Bombay	7 UG Third Year and	Rochester,	Challenge
	Fourth Year Student	Michigan	• 7 <sup>th</sup> out of 52 teams
Intelligent Ground			participated for the
Vehicle Competition			competition
(IGVC)- 2014	ASME :-		Participating in Mahindra
	6 UG First Year and	ASME :-	RISE Driverless Car Challenge
	3 UG Second Year	BITS, Pilani	ASME :-
ASME, Student Design	Entry from		First in Asia- Pacific
Competition (SDC),	Innovation Cell, IIT B		Representing India in World
2014			Finals in Montreal, Canada
"IITB Mars Rover"	Participated students	Arkaroola,	<ul> <li>Successfully completed</li> </ul>
Team	:7	Australia	terrain traversing test and
Arkaroola Mars Robot	Team strength: 20		soil-sample collection test.
Challenge - Expedition			
	Members 30	To be launched in	More than 20
		space next year,	international and national
Pratham Student		MOU with ISRO	conference and journal papers
Satellite Team			Encouraged more than 4 other
			teams to start student satellites
			Collaboration with international
			and national
			universities to build ground
	5	6:1	stations
IIT Bombay Racing	Participated students	Silverstone, UK	• 28 <sup>th</sup> in Design Event (100
(Formula Student UK)	-26		point out of 150)
	Teams Participating - 90		• FS Financial Award – Given to
	90		two non UK team
			One of the nine electric cars to complete Endurance
International	Participating Student	San Deigo, CA, USA	• 2013 – 6 <sup>th</sup> – Static Judging
RoboSub	- 25		Overall – 11 <sup>th</sup> position
			Currently participating
			ROBOSUB – 2014 – result
			awaited
Team Shunya	Faculty – 4 members	Paris, France	Took 1.5 yrs to build house
	Students – 34		Dismantled house and
	members		transported it to Paris
			House H-naught was rebuilt
			in 15 days and exhibited to a
			crowd of >80000
			professionals and public
			Earned a special mention in
			sustainability award
			Team of 34 students and 4
			faculty members
			overall finished 18th in a 45
			day competition