

EASWARI ENGINEERING COLLEGE

(An Autonomous Institution) Bharathi Salai, Ramapuram, Chennai – 600 089 DEPARTMENT OF INFORMATION TECHNOLOGY



RESEARCH FACILITY DETAILS

E-Yantra (Embedded Systems and Robotic Lab)

Well-equipped Robotics lab which helps the interested students to work on projects.

List of Components

S. No.	Equipment	Quantity
1	FireBird V 2560	5
2	Spark V Robot	10
3	Fire Bird V P89V51RD2 adapter card	5
4	Fire Bird V LPC2148 adapter card	5
5	Zigbee Modules 100m range	10
6	Zigbee Modules Adapter	5
7	AVRISP mkII USB Programmer	5
8	Two Axis Camera pod with Wireless Camera	3
9	USB TV Tuner for Interfacing wireless camera with Laptop	3
10	Raspberry-Pi	2
11	Metal-gear Servo Motors	10
12	Sharp GP2D120C infrared range sensor (4cm to 30cm)	10
13	Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80cm)	20
14	Sharp GP2Y0A02YK infrared range sensor (20cm to 150cm)	5
15	Sharp GP2Y0A710K0F infrared range sensor (100cm to 500cm)	5
16	Maxbotix ultrasonic range sensor	5
17	L3G4200 3 axis digital gyroscope	2
18	LSM303 3 axis digital accelerometer and 3 axis magnetometer	2
19	GPS receiver	2
20	Gyroscope, accelerometer and GPS interfacing module for the robot	2
21	Servo Motor Based Gripper kit for the Fire Bird V robot	2
	Total	118

List of Projects Developed

Department	Id of the teams	Name of the Students	Title of the Project	Name of the event
	Id: HB_4238	Monishraju R, Monish R, Ashwin S, Yohit K.	Holabot (Holonomic Art Bot)	eyrc (e yantra robotics competition) E-Yantra Forum
Robotics and Automation	Id: HB_4252	Riya Catherine A, Barat Vikraman M J, Kiruthika V, Lavanya M.	Holabot (Holonomic Art Bot)	eyrc (e yantra robotics competition) E-Yantra Forum
	Id: eyrc#db#4252	Kavya S, Karthikeshwar M S, Akhil Y, Joe Mathew I.	Delivery Bike	eyrc (e yantra robotics competition) E-Yantra Forum

Photos:





2.GPU Server for Machine learning Applications

Configuration Details:

DELL I7 Processor

➢ 32 GB RAM,24" Monitor,3TB HD

GPU UTILIZATION OUTCOME

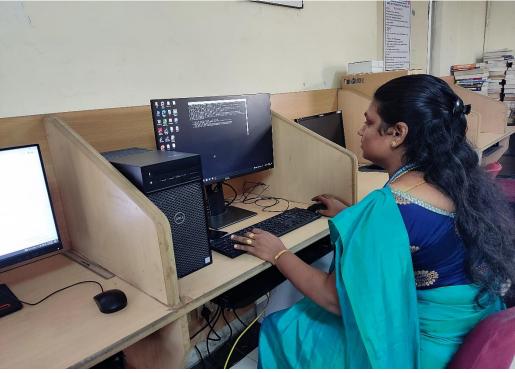
Outcome of GPU Utilization for Research Proposal

S.No	Name of the Faculty	Name of the project	Agency	Amount granted	Year of grant
1	Ms.Sandhiya	An association based deep learning framework for detecting COVID 19	ICMR	Rs.4,44,060	08.03.22
2	Ms.Sowmiya, Ms.Deepika	Deep Learning Based Detection for COVID 19 Disease Spread and Forecasting	ICMR	Rs.4,08,760	14.12.21

Utilization of GPU for Ph.D Work

S.No	Name of the Faculty	Research Title	University	Ph.D Awarded
1	Dr.Valarmathi	An Efficient prediction based dynamic resource allocation framework in cloud using knowledge based hybrid system	Anna University	15.06.2022
2	Mr.Kumaran	An efficient task offloading and resource allocation using dynamic arithmetic optimized double deep Q-network in cloud edge platform	SRM University	Ongoing
3	Mrs.P.M.Lavanya	Auto capture on drug text detection in social media through NLP from the heterogeneous data	SRM University	Ongoing





GPU for Research

S.No	Date of the Event	Name of the Student	Title of the Project	Name of the Event	Award Received
1	2022	PRASANNA PHANINDRAN S	TECH ECO SYSTEM TO KEEP THE SOLAR PANEL DUST-FREE	HACK-O- PITCH, IITM PARADOX, IIT MADRAS	Rs.15,000
2	22-04-22	DASARI SHIMMY ROY, A. GAVIN GLADSTON, ASHWIN S, PRITHAM GANESH S, JANANI B	REVERSE WASTE MANAGEMENT	PROJECT DAY, SRMIST	Rs.25000
3	22-04-22	HARIVIGNESH, HARISHKUMAR, ARUNKUMAR R, ABDULWASEEM NIHAAL	TRUCK LOAD MONITORING SYSTEM TO PREVENT ACCIDENT.	PROJECT DAY, SRMIST	Rs.5000
4	27-03-23	PRASANNA PHANINDRAN S	AI BASED LEGAL ECO SYSTEM	PROJECT DAY, SRMIST	Participated
5	27-03-23	SANJAY R	THIRD-EYE	PROJECT DAY, SRMIST	Rs.5000
6	2023	BALAJI R NAVEEN S KEERTHANA J KANIMOZHI	ANYCOMM (ANYONE CAN COMMUNICATE)	SAE	Rs.750

Outcome of GPU Utilization for Student Projects