



JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

**Jaipur Engineering College & Research Centre, Jaipur**  
**Xananoids- The Robotic People**

**List of Equipment**

**Equipments List of Xananoids**

S. No.	Equipments	Item Description	Qty.	Price /Unit	Total Amount
1	GSM Module SIM & GPS Module with Cable Antenna	Cellular Comm. Module kit	5	1560	7800
2	HC05	Sensor	10	266	2660
3	Sensors(HCSR04, ADXL345,MQ6,Moisture)	Sensors	5+2+2+2	125	1,365
4	Motors(SimpleDC, Stepper, Servo SG90, MG996R)	DC motors	6+1+1+1	120+250+100+140	1,210
5	Robotic Platform Set	Robotic bench setup	2	245	490
6	8X8 LED Matrix Board	LED pattern board	1	168	168
7	Arduno Nano Dev Kit	Microcontroller Developer kit	1	450	450
8	Bread Board Kit	Testing platform breadboard	1	330	330
9	USB Camera for RPi	Camera module for raspberry pi	1	550	550
10	EM18 with Tag	Electromagnetic tags sensors	1	390	390
11	12V 1A DC Adaptor	Power supply setup	10	70	700
12	Raspberry Pi-4	Microcontroller kit	3	2730	8190
13	Arduino Uno R3	Microcontroller Kit	4	540	2160
14	HPP PC 280g1MT Core i-3 4590S(J7V61AV)	CPU	8	15000	120000
15	Motor driver	Motor assembly and drivers	50	38	1900
16	DC Plastic Gear Motor with wheel	DC motors with gears	50	120	6000
17	Node MCU	Microcontroller kit with inbuilt wifi module	10	430	4300
18	Vibrating Motor	DC Motor with vibrations	20	75	1500
19	Capacitive touch Module	Touch Modules-Capacitive type	10	390	3900

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Electronics & Communication Engineering  
JECRC, Jaipur



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20	IR Sensors, Obstacle avoider sensor module	Sensors	30	75	2250
21	PIR Motion Detector Module	Motion sensors	10	120	1200
22	DC motor	DC motors	10	180	1800
23	Digital multi meter	Testing kits	4	600	2400
24	3-D Printer	3-D printing device	1	220000	220000
25	Various Consumable Items	Misc.		50000	50000
26	Various tools	Tool box (Hammer, Pliers, Drill etc.)		80000	80000
27	Zetson Nano Microcontrollers	Microcontroller unit	2	20000	40000
28	Quadcopter motors and assembly kit	Drone set up	1	9500	9500
29	Li-Po Batteries	Lithium polymer batteries for drones	4	1500	6000
			<b>Total</b>		<b>577213</b>

  
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## Geo Tagged Photos



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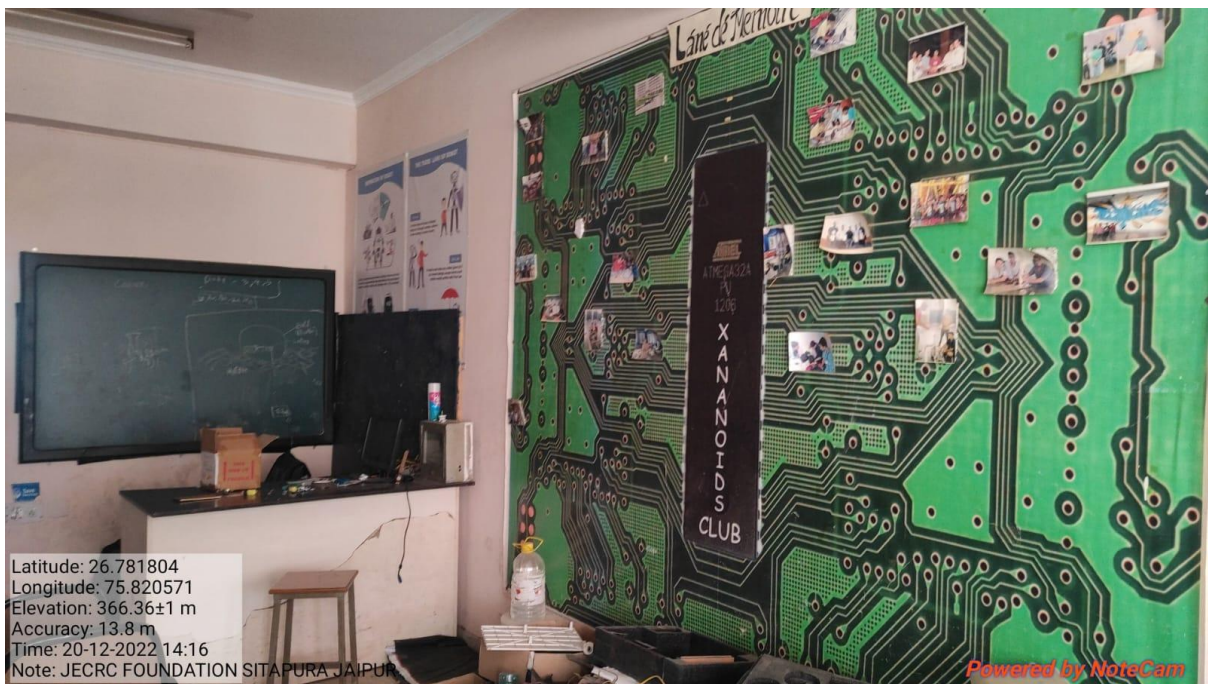


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Longitude: 75.820596  
Elevation: 366.56±1 m  
Accuracy: 12.4 m  
Time: 20-12-2022 14:17  
Note: JECRC FOUNDATION SITAPURA JAIPUR

Powered by NoteCam



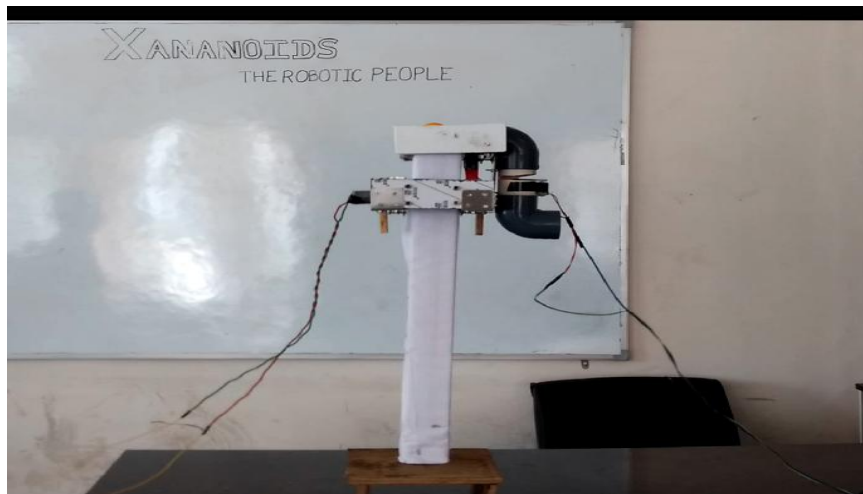
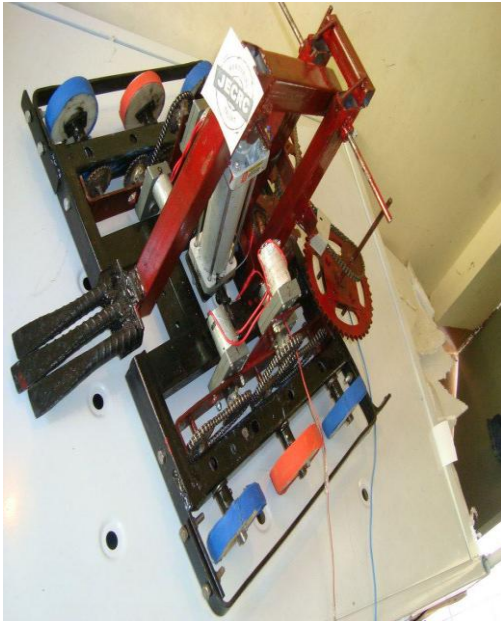
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Accuracy: 13.8 m  
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Note: JECRC FOUNDATION SITAPURA JAIPUR

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**Jaipur Engineering College & Research Centre, Jaipur**  
**Xananoids- The Robotic People**  
**Stock Register**

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Verified  
Sub  
23/02/2022

verified  
23/2/22

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Electronics & Communication Engineering  
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Verified  
Duplicate  
23/02/2022

verified  
Am. L. V.  
23/2/22

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Electronics & Communication Engineering  
JECRC, Jaipur



JAIPUR ENGINEERING COLLEGE  
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## MoU:

**LIVEWIRE**  
FOR LIVE CAREERS



### MEMORANDUM OF UNDERSTANDING

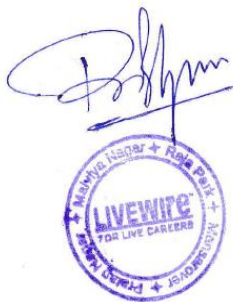
Between

LIVEWIRE (A division of CADD CENTRE TRAINING SERVICES)

(By Its Raja Park, Jaipur Centre)

And

JECRC Foundation, JAIPUR



V. P. S. 31/8/18

PRINCIPAL  
Jaipur Engineering College &  
Research Centre  
Tonk Road, Jaipur-302022

Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur



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### **MEMORANDUM OF UNDERSTANDING**

Livewire Training Services will sign a MOU with JECRC Foundation, Jaipur, Rajasthan to establish **“Centre of excellence”**.

This Memorandum of Understanding hereinafter is referred to as “MoU” is made and executed on this 22<sup>nd</sup> Aug. 2019.

By and Between

**LIVEWIRE India (A division of CADD CENTRE TRAINING SERVICES PVT. LTD. Chennai)**, having its local office at No. 106-107 Mahima Majesty, Ram Gali No. 6, Raja Park Jaipur. (hereinafter referred as **“LIVEWIRE”** for the sake of brevity) and represented by its Centre head, – **Mr. Rajeev Bhargava** which expression shall mean and include its successors in office and assigns.

And

**Principal (Dr. Vinay Kumar Chandna), JECRC Foundation, Jaipur, Rajasthan**, (herein after referred as **“JECRC Foundation”** represented by its Dr. Vinay Kumar Chandna (Principal), which expression shall mean and include its successors in office and assigns.

#### **Objective of the program (Centre Of Excellence):**

In today's world IT/Robotics & Automation, has become an indispensable skill required to make every professional employable and productive in the work place. The objective of the training program (under COE) is:

- To train the students of JECRC FOUNDATION Jaipur at their college campus.
- To train the students of JECRC FOUNDATION Jaipur on the concepts and soft tools of IT, AI, IOT, Robotics and automation, machine learning etc. all latest technologies use by industry.
- To facilitate them to excel in their workplace.
- Motivate to student's for innovation and startup by using new technologies.
- To facilitate and help them into making their projects.
- To bridge the skill gap between the individuals and the industry.
- Saves on travel time as centre of excellence is established in College.
- World class training at their Campus in very low price in comparison to their center site.
- Internationally recognized certificate.
- To build / improve confidence level of students to face the challenges in real time.

2

V. P. Chaudhary 31/8/19  
PRINCIPAL

Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur



**Course Fees and Training Program Detail:-**

As per annexure 1

**COURSEWARE**

As per Livewire norms.

**SUBJECTS:**

THEORY

PRACTICALS / LAB

**PROJECT BASED ASSESMENT:**

Students are encouraged to work on their own projects during the training program. Project-based learning helps students to learn the subject and understand to meet the international standards. Project-based learning encourages students to use information, ideas, skill, to answer real-world questions and solve them. Projects will be assessed by the instructor.

The advantages of project-based learning:

- Provides real-world orientation.
- Encourages higher-order thinking skills.
- Allows the instructor to be a facilitator of learning.
- Provides for ongoing student self-assessment.

**LiveWire through its Raja Park, Jaipur Shall Provide**

- The proprietary and internationally acclaimed LiveWire course material to each Student.
- Provide qualified trainers for the course.
- Periodical assessments of students for their further improvement.
- Certificate of Completion will provided to every student who will successfully complete the training program.
- LiveWire will provide "Certificate of Centre Of Excellence" between LiveWire with JECRC FOUNDATION Jaipur.

V. Choudhary  
31/8/19  
PRINCIPAL  
Jaipur Engineering College &  
Research Centre

Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur



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- Permit JECRC FOUNDATION Jaipur to use LiveWire logo as the Skill Development Partner.
- LiveWire will help out to student's in their technical projects.
- LiveWire will help to college by conducting workshop / Seminar / Conferences related topics.
- **Livewire Will help College student's to get job placement through its placement drive for student's who joined their courses.**

**JECRC FOUNDATION JAIPUR Shall Provide:**

- The required number of computer systems with latest configuration, switch in the lab and other required infrastructure for the practical session.
- The Class rooms with LCD projector (if available) for the theory classes and for practical class if student's have their laptop.
- Computer lab for training as mutually decide.

**PARTICIPANTS:**

The participants would be the Students of JECRC FOUNDATION JAIPUR.

**COURSE CONTENTS:**

As per LiveWire norms and course books (DLM – Deep Learning Module).

**Proposed Class Timing**

As mutually decide.

**COURSE FEES & PAYMENT PATTERN**

The course fee per student for each course offered is decided and mutually agreed by both the parties as mention in annexure 1. The student shall pay the course fee directly to MULTI CAD SOLUTION (LIVEWIRE – Authorized Franchisee jaipur), Jaipur.

**Validity**

This contract shall be in force for three years and valid till Aug. 2022 and reviewed every year if need any changes may occurred.



4

V. Chaudhary 31/8/19  
Principal  
Jaipur Engineering College &  
Research Centre  
Jaipur

Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur



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**JURISDICTION**

All matters, queries, disputes, or differences, whatsoever, arising between the parties touching the construction, meaning, operation or effect of this Memorandum of Understanding or out of or relating to this Memorandum of Understanding or breach thereof shall be settled through arbitration in accordance with the relevant Arbitration Act in force at such time. The Arbitration award shall be binding on both parties.

This Memorandum of Understanding shall come into effect from 22<sup>nd</sup> Aug. 2019.

For: JECRC FOUNDATION, Jaipur

for: MULTI CAD SOLUTION (LIVEWIRE).

V. Chandna 31/8/19

Name: Dr Vinay Kumar Chandna

Designation: Principal

Date: 22<sup>nd</sup> Aug. 2019

PRINCIPAL  
Jaipur Engineering College &  
Research Centre  
Tonk Road, Jaipur-302022

Rajeev Bhargava

Name: Mr. RAJEEV BHARGAVA

Designation: Centre Head

Date: 22<sup>nd</sup> Aug. 2019



Head of the Department  
Electronics & Communication Engineering  
JECRC, Jaipur