

### DEPARTMENT OF MECHANICAL ENGINEERING

### **Project**

Robotic Metal 3D Printing and Post-processing Using Plasma Additive Manufacturing (AM)

**Year Of Award** 

2020-2021

**Amount Sanctioned** 

20 lakhs

**Funding Agency** 

**Vision Group of Science and Technology** 



Dr. Suyog Jhavar Assoc. Professor (Research)





Project Proposals approved for Sponsorship/ Funds/Grant-In-Aid/Training







**Dr.VENKATESWARAN S**Professor, Dept. of ME

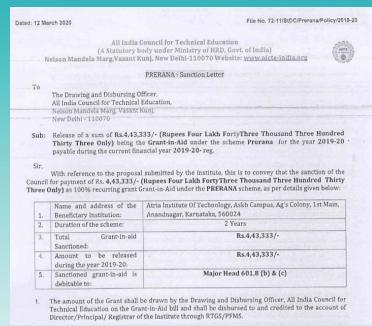
Year of the Award: 2019-20

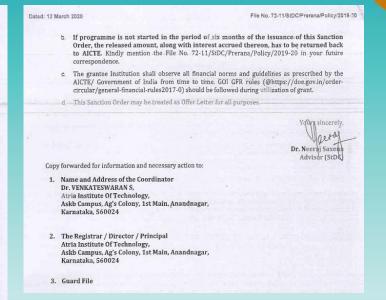
**Amount Sanctioned :** ₹ 4,43,333

Funding Agency:
All India Council for
Technical Education









Prerna Scheme- (SC/ST) for GRE Exam and University Selection/Application

AICTE - File No. 72-11/StDC/Prerana/Policy//2019-20

Name of the Students: Mr. ISHTIQA AHMED, Mr. MOHAMMED SHOAIB SHARIFF, Mr. M SYED ISMAIL ZEESHAN & Mr. PRASHANTH S.







**Dr. SUYOG JHAVAR**Assoc. Professor (Research)

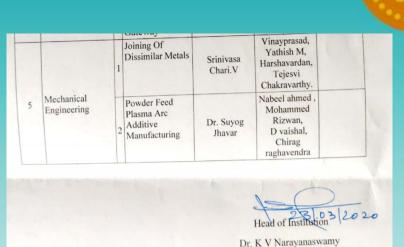
Year of the Award: 2019-20

**Amount Sanctioned:** ₹ 5000

Funding Agency:
Visvesvaraya Technological
University

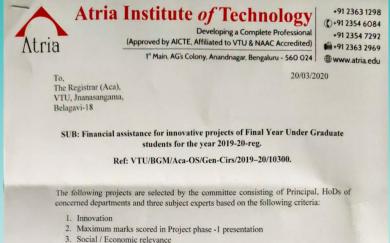






Principal

Atria Institute of Technology Anandanagar, Bengaluru-24



**Title of the Project:** Powder Feed Plasma Arc Additive Manufacturing.

Financial assistance received for innovative projects of final year graduate students for the year 2019-2020.

(circular reference: VTU/BGM/Aca-OS/Gen-Cirs/2019-20/10300).

Name of the Students: Mr. NABEEL AHMED, Mr. MOHAMMED RIZWAN Mr. D VAISHAL & Mr. CHIRAG RAGHAVENDRA







Mr. SRINIVASA CHARI V
Assistant Professor

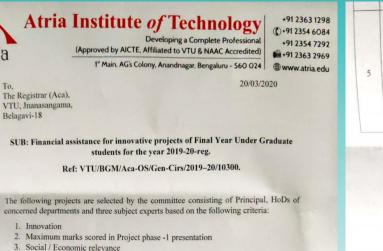
Year of the Award: 2019-20

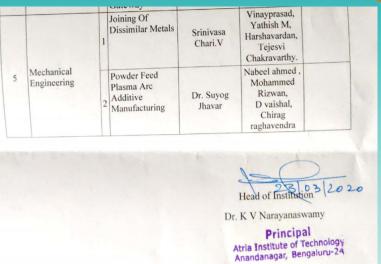
Amount Sanctioned: ₹ 5000

Funding Agency:
Visvesvaraya Technological
University









### Title of the Project: Joining of Dissimilar Metals

Financial assistance received for innovative projects of final year graduate students for the year 2019-2020.

(circular reference: VTU/BGM/Aca-OS/Gen-Cirs/2019-20/10300).

Name of the Students: Mr. VINAYPRASAD, Mr. YATHISH M, Mr. HARHAVARDAN & Mr. TEJESVI CHAKRAVARTHY







Mr. PRAVEEN KUMAR B.C Assistant Professor

Year of the Training: 2019-20

**Received :** ₹ 4,99,000

### **Trained:**

107 Students in Digital
Manufacturing Lab in
association with SITRAIN
Training for Industry
(siemens.co.in)









#### **SIEMENS**

Ingenuity for life

#### Certified Trainer for the following Courses

Level 1

· Siemens Certified Mechatronic Systems Assistant

Emphasis on efficiently operating complex mechatronic systems, troubleshooting and foreseeing problems

· Siemens Certified Mechatronic Systems Associate

Focus on systems management, investigation, repair and troubleshooting

#### Levels of certification

Level I

Mechatronic Systems Astiriant

· Bloctrical Cocaroaents

Mochanical Components and Electric Drives

(Electro) Precumetic and Hydraulic Circuits

Digital Fundamentals and PLCs

acrel II

Mechatronic Systems Associate

Process Control Technologies

· Imreduction to Totally Integrated Automation

· Automation Systems

Motor control

Mechanics and Machine Elements

Manufacturing Processes

The program would include 60 hours of comprehensive training for each course which includes a complete total student development in terms of both theoretical and practical knowledge.

Siemens Mechatronic Systems Certification Program - Assistant (Level 1) (SMSCP-L1) from 18/02/2019 to 02/03/2019.







Mr. HARSHA N

Year of the Award: 2017-18

Amount Sanctioned: ₹ 8000









#### MECHANICAL ENGINEERING

33. DESIGN AND FABRICATION OF PORTABLE 3D PRINTER

ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

E : Mr. HARSHA N

STUDENTS : Mr. ISHTIAQ AHMED, Mr. MOHAMMED SHOAIB SHARIFF, Mr. M SYED ISMAIL ZEESHAN

Mr. PRASHANTH S

34. DESIGN AND DEVELOPMENT OF LOW COST ENERGY EFFICIENT FRUIT PRESERVATION SYSTEM USING

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDE : Dr. SHARAN A S

STUDENTS: Mr. RAJSHEKHAR, Mr. RAVI PRAKASH, Mr. ABHILASH N

35. SOLAR POWERED HYBRID MULTI-MODE WATER WHEELER

K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI

GUIDE : Prof. SANTOSH A GOUDAR

STUDENTS: Mr. MOHAN K MAKANI, Mr. PRADEEP, Mr. IRESH M BADIGER, Mr. SAGAR R KAVATAGIMATH

41<sup>st</sup> Series : SPP : KSCST : 2017-2018

Title of the Project: Design & Fabrication of Portable 3D Printer.

Selected for State Level Seminar & Exhibition under 41st KSCST 2017-2018 (Ref No: 41S\_BE\_0581) - Awarded as the Best project of the year in the Mechanical Engineering discipline.

Name of the Students: Mr. ISHTIQA AHMED, Mr. MOHAMMED SHOAIB SHARIFF, Mr. M SYED ISMAIL ZEESHAN & Mr. PRASHANTH S.







Mr. SRINIVASA CHARI V
Assistant Professor

Year of the Award: 2019-20

Amount Sanctioned: ₹ 5500





#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru – 560 012
Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

43rd Series of Student Project Programme: 2019-20

#### LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

#### 17) ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

92.	43S_BE_1657	ADSORPTION OF LEAD AND ARSENIC USING GROUNDNUT SHELL	CIVIL ENGINEERING	B.E.	STREAM A	Mrs. KRITIKA SHARMA Dr. H J SURENDRA	Ms. HARSHITHA L Ms. LAKSHMI LC Mr. DHANUSH J Mr. SHARATH N S	5500.00
93.	43S_BE_1669	BLIND NAVIGATION	COMPUTER SCIENCE AND ENGINEERING	B.E.	STREAM A	Prof. PALLAVI N	Mr. GAURAV BHATT Mr. DEEPAK NAIR Mr. MAYUR RAJ Mr. AMRIT KUMAR	5000.00
94.	43S_BE_1670	SMART CAP- WEARABLE VISUAL GUIDANCE SYSTEM FOR THE BLIND	INFORMATION SCIENCE AND ENGINEERING	B.E.	STREAM A	Prof. VEERESH BASAVARAJ HATTI	Ms. KAJAL LENKA Ms. BINDUSHREE S Ms. DEEPALI R ANVEKAR	4500.00
95.	43S_BE_3078	SMART ENERGY METER USING LORA FOR ELECTRICITY THEFT	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Prof. RAKHI S	Ms. SWATHI P Ms. SAHANA S B Ms. VARSHITHA R Ms. RUSHALI POOVAMMA P.J.	4500.00
96.	43S_BE_3082	SURFACE FINISH BY LASER POLISHING	MECHANICAL ENGINEERING	B.E.	STREAM A	Prof. SRINIVASA CHARI V	Mr. GOUTHAM P K Mr. CHANADU S Mr. KARTHIK R Mr. BASAVA N	5500.00
97.	43S_BE_3083	DEVELOPMENT OF SONIC FIRE EXTINGUISHER USING DISRUPTING PHENOMENA WITH WAVES	MECHANICAL ENGINEERING	B.E.	STREAM A	Prof. VIJAYAKUMAR S TOTAD	Mr. VINOD KUMAR R Mr. KISHORE V S	5000.00

### Title of the Project: Surface Finish by LASER Polishing

Selected for State Level Seminar & Exhibition under 43rd KSCST 2019-20 (Ref No: 43S\_BE\_3082).

Name of the Students: Mr. GOUTHAM P K, Mr. CHANADU S, Mr. KARTHIK R & Mr. BASAVA N







Mr. VIJAYAKUMAR S TOTAD
Assistant Professor

Year of the Award: 2019-20

Amount Sanctioned: ₹ 5000





#### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru - 560 012 Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

43rd Series of Student Project Programme: 2019-20 LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

#### 17) ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

92.	43S_BE_1657	ADSORPTION OF LEAD AND ARSENIC USING GROUNDNUT SHELL	CIVIL ENGINEERING	B.E.	STREAM A	Mrs. KRITIKA SHARMA	Ms. HARSHITHA L	5500.00
	1					Dr. H J SURENDRA	Ms. LAKSHMI LC	
							Mr. DHANUSH J	
	100 DE 1000	DUND HAVE OF THE STATE OF THE S	0011017770	0.5	OTOFILL	0. (0.111.111.11	Mr. SHARATH N S	F000 00
93.	43S_BE_1669	BLIND NAVIGATION	COMPUTER SCIENCE AND	B.E.	STREAM A	Prof. PALLAVI N	Mr. GAURAV BHATT	5000.00
			ENGINEERING				Mr. DEEPAK NAIR Mr. MAYUR RAJ	
			ENGINEERING				Mr. AMRIT KUMAR	
и	43S BE 1670	SMART CAP- WEARABLE VISUAL GUIDANCE SYSTEM FOR THE	INFORMATION	B.E.	STREAM A	Prof. VEERESH	Ms. KAJAL LENKA	4500.00
94.	433_BE_1070	BLIND	SCIENCE AND	B.E.	STREAMA	BASAVARAJ HATTI	Ms. BINDUSHREE S	4300.00
		BEIND	ENGINEERING			DAGAVAING HATTI	Ms. DEEPALIR ANVEKAR	
15.	43S BE 3078	SMART ENERGY METER USING LoRa FOR ELECTRICITY THEFT	ELECTRONICS AND	B.E.	STREAM A	Prof. RAKHI S	Ms. SWATHI P	4500.00
			COMMUNICATION				Ms. SAHANA S B	
			ENGINEERING				Ms. VARSHITHA R	
							Ms. RUSHALI POOVAMMA P.J.	
96.	43S_BE_3082	SURFACE FINISH BY LASER POLISHING	MECHANICAL	B.E.	STREAM A	Prof. SRINIVASA CHARI V	Mr. GOUTHAM P K	5500.00
		Marian Maria Marian Mar	ENGINEERING				Mr. CHANADU S	
							Mr. KARTHIK R	
							Mr. BASAVA N	
97.	43S_BE_3083	DEVELOPMENT OF SONIC FIRE EXTINGUISHER USING	MECHANICAL	B.E.	STREAM A	Prof. VIJAYAKUMAR S	Mr. VINOD KUMAR R	5000.00
		DISRUPTING PHENOMENA WITH WAVES	ENGINEERING			TOTAD	Mr. KISHORE V S	

SI. No.	PROJECT REFERENCE NO.	PROJECT			
61.	43S_BE_3083	DEVELOPMENT OF SONIC FIRE EXTINGUISHER USING DISRUPTING PHENOMENA WITH WAVES COLLEGE: ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE: Prof. VIJAYAKUMAR S TOTAD STUDENTS: Mr. VINOD KUMAR R Mr. KISHORE V S			
62.	43S_BE_2730	DESIGN AND DEVELOPMENT OF REUSABLE INFLATABLE AIR BAG SAFETY HELMET FOR TWO WHEELERS AND IT'S COMMUNICATION SYSTEM FOR CRASH LOCATION COLLEGE: B.M.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BENGALURU GUIDE: Mr. PRAVEEN KUMAR STUDENTS: Mr. VIGENSH.N Mr. SAMARTH SAGAR K Mr. RIJSHIL PRAVEEN			

KSCST: 43rd Series of SPP: Best Projects of the Year Award

Page 13 of 17

Title of the Project: Development of Sonic Extinguisher Using Disrupting Phenomena with Waves.

Selected for State Level Seminar & Exhibition under 43rd KSCST 2019-20 (Ref No: 43S\_BE\_3083) - Awarded as the Best project in the Mechanical Engineering discipline.

Name of the Students: Mr. VINOD KUMAR R & Mr. KISHORE V S







Mr. ANJAN KUMAR.D
Assistant Professor

Year of the Award: 2020-21

Amount Sanctioned: ₹ 7000







Indian Institute of Science Campus, Bengaluru – 560 012
Website: http://www.kscst.iisc.ernet.in/spp.html || Email: spp@kscst.iisc.ernet.in || Phone: 080-23341652, 23348840/48/49

44th Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

#### 17. ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

SI. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
82.	44S_BE_0527	LIP READING SYSTEM	INFORMATION SCIENCE AND ENGINEERING	B.E.	Mrs. SHRUTHI B Dr. NEHA MANGLA	Ms. SAHANA V Ms. SAHANA B MESTHA Ms. SIDDIQA AKRAM	4000.00
83.	44S_BE_0528	LOW COST COMMUNITY LEVEL COMMUNITY WATER TREATMENT SYSTEM SING TUBULAR SOLAR STILL UNDER CHANGING CLIMATIC SCENARIOS	CIVIL ENGINEERING	B.E.	Dr. SURENDRA H J	Ms. PREETHI B R Ms. SANGEETHA K S Ms. SAMIKSHA M	5000.00
84.	44S_BE_3484	AN AUTOMATED CONVERTIBLE ROOF FOR 2 WHEELERS	MECHANICAL ENGINEERING	B.E.	Mr. ANJAN KUMAR D Mr. CHETAN C S	Mr. MOHAMMED MUBASHIR BENNISHIRUR Mr. B MOHAMMED SAHIL Mr. ABHISHEK KUMAR YADAV Mr. VISHAK SHEETY	7000.00
85.	44S_BE_4316	SMART SUITCASE LOCKER SYSTEM USING IOT	INFORMATION SCIENCE AND ENGINEERING	B.E.	Mr. ABHILASH G Dr. SHANTH MAHESH	Mr. CHETHAN S Ms. DEEKSHA Ms. CHAITRA R	5000.00

Title of the Project: An Automated Convertible Roof for 2 Wheelers.

Selected for State Level Seminar & Exhibition under 44rd KSCST 2020-21 (Ref No: 44S\_BE\_3484).

Name of the Students: Mr. MOHAMMED MUBASHIR BENNISHIRUR, Mr. B MOHAMMED SAHIL, Mr. ABHISHEK KUMAR YADAV & Mr. VISHAK SHEETY