



Dr. Ambedkar Institute of Technology, Bangalore – 56

Department of Electronics & Instrumentation Engineering

The attached documents are valid and approved.

[Signature]
Prof. & Head 5/11/22

Professor & Head
Department of Electronics & Instrumentation Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@isc.ac.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Mr. H. Hemanth Kumar

Executive Secretary

21st April 2021

Ref: 7.1.01/SPP/10

The Principal
Dr. Ambedkar Institute of Technology Campus
BDA Outer Ring Road
Bengaluru - 560 056

Dear Sir/Madam,

Sub : Sanction of Student Project - 44th Series: Year 2020-2021

Your Project Proposal Reference No. : **44S_BE_1848**

Ref : Your Project Proposal entitled " **VOICE CONTROLLED ROBOT WITH SURVEILLANCE CAMERA USING LABVIEW**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Ms. Chandana V	Budget	
	Ms. Chaitra Shree	Particulars	Amount (Rs.)
	Ms. Sakshi Sharma	Materials/Consumables	4,000.00
	Mr. Sanjay S	Labour	500.00
Guide/s	Prof. Hamsa Rekha S D	Travel	500.00
		Miscellaneous	500.00
Department	Electronics And Instrumentation Engineering	Report	500.00
		Total	6,000.00
	SIX THOUSAND RUPEES ONLY		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@iisc.ac.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Mr. H. Hemanth Kumar

Executive Secretary

21st April 2021

Ref: 7.1.01/SPP/10

The Principal
Dr. Ambedkar Institute of Technology Campus
BDA Outer Ring Road
Bengaluru - 560 056

Dear Sir/Madam,

Sub : Sanction of Student Project - 44th Series: Year 2020-2021

Your Project Proposal Reference No. : **44S_BE_3049**

Ref : Your Project Proposal entitled " **SMART SELF-DEFENCE GADGET FOR WOMEN'S SAFETY USING IOT**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Detailed below:			
Student / s	Ms. Nikitha G Naik	Budget	
	Mr. Bhuvan M	Particulars	Amount (Rs.)
	Mr. Chandan P Shetty	Materials/Consumables	4,000.00
	Mr. Sachin Kini N	Labour	500.00
Guide/s	Prof. Monikashree T S	Travel	500.00
		Miscellaneous	500.00
Department	Electronics And Instrumentation Engineering	Report	500.00
		Total	6,000.00
	SIX THOUSAND RUPEES ONLY		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords



Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in
office.kscst@iisc.ac.in

Mr. H. Hemanth Kumar
Executive Secretary

Ref: 7.1.01/SPP/953

16th March 2020

The Principal,
Dr. Ambedkar Institute of Technology,
Bengaluru - 560 056.

Dear Sir/Madam,

Sub : Sanction of Student Project - 43rd Series: Year 2019-2020

Your Project Proposal Reference No. : **43S_BE_2555**

Ref : Your Project Proposal entitled " **SMART WEARABLE SYSTEM FOR ASTHMA PATIENTS**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 43rd Series" with a budgetary break-up as detailed below:

Student / s	Ms. Ramya Shree. E.M	Budget	
	Ms. Brunda.S	Particulars	Amount (Rs.)
	Ms. Akarsha S N	Materials/Consumables	4,000.00
	Ms. Sunitha N S	Labour	500.00
Guide/s	Mrs. Hamsa Rekha. D	Travel	500.00
	-	Miscellaneous	500.00
Department	Electronics And Instrumentation Engineering	Report	500.00
		Total	6,000.00
	Six Thousand Rupees Only		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords



Dr. Ambedkar Institute of Technology
AICTE Margdarshan Scheme
Statement of Expenditure



AICTE File No : Ref.No.58-14/RIFD/Margdarshan/2019-2020 Dated : 06-09-2019
Title of the Programme : Release of Grants Under Share & Mentor Institutions (Margdarshan) Scheme
During the Current Financial Year 2019-2020
Name of the Coordinator : Dr. M. Meenakshi

Grant Sanction number and date	Grant Sanctioned	Details of Expenditure	Amount Rs.
Ref.No. 58-14/RIFD/Margdarshan/2019-2020 6th September 2019	18,00,000.00	Honorarium for experts	2,56,000.00
		TA/DA Expenses	85,950.00
		Refreshment Charges	1,02,170.00
		Departmental Contingency	46,350.00
		Printing & Stationery	35,307.00
		Grand Total	5,25,777.00
		Grants Received	18,00,000.00
		Interest Accrued	1,08,843.00
		Grants + Interest	19,08,843.00
		Balance As on 19.03.2022	13,83,066.00

Note:-

[Signature]
Professor & Head
Department of Instrumentation Technology
Dr. Ambedkar Institute of Technology,
Bangalore - 560 056.

[Signature]
[Dr. M. Meenakshi]

[Signature]
for Accounts Officer
Dr. Ambedkar Institute of Technology
Mallathahalli, Bengaluru-560 056

[Signature]
[Vijayalakshmi. R]

[Signature]
Principal
Dr. Ambedkar Institute of Technology
Bangalore - 560 056

[Signature]
[Dr. M. Meenakshi]

For SBA Associates
Chartered Accountants
FRN 308136E

[Signature]
CA. Santhosh Kumar
Partner
M.No. 217496

22/3/22

Dr. Ambedkar Institute of TechnologyAided by Govt. of Karnataka, BDA Outer Ring Road, Bangalore - 560056

UTILIZATION CERTIFICATE FOR THE YEAR 2019-2020 & 2020-2021

Name of the Scheme under which Grant was sanctioned: All India Council for Technical Education (AICTE) MARGDARSHAN SCHEME

AICTE File No.: Ref.No.58-14/RIFD/Margdarshan/2019-2020

Name of Co-coordinator : Dr. M Meenakshi

Title of the Programme: "Release of Grants Under Share & Mentor Institutions (Margdarshan) Scheme During the Current Financial Year 2019-2020".

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1.	Ref.No.58-14/RIFD/Margdarshan/2019-2020 6 th September 2019	18,00,000/-	Certified that out of the grant-in-aid of Rs. 18,00,000/- (Rupees Eighteen Lakhs only) sanctioned by the AICTE during the financial year 2020 in favor of Dr. Ambedkar Institute of Technology as per letter mentioned in the margin, Rs.0 /- on account of unspent balance of previous year, Rs. 0/- on account of other income / receipts, a sum of Rs. 5,25,777/- has been utilized for the purpose for which it was sanctioned and the balance of Rs. 12,74,223/- and interest accrued of Rs. 1,08,843/- totaling to Rs. 13,83,066/- Remaining unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: - 1. Bank Statement 2. Payment Vouchers.

[Signature]
Professor & Head
Department of Instrumentation Technology
Dr. Ambedkar Institute of Technology
Bangalore - 560 056.

[Signature]
[Dr. M. Meenakshi]

[Signature]
Principal
Dr. Ambedkar Institute of Technology
Bangalore - 560 056

[Signature]
[Dr. M. Meenakshi]

[Signature]
for Accounts Officer
Dr. Ambedkar Institute of Technology
Mallathahalli, Bengaluru-560 056

[Signature]
[Vijayalakshmi.R]

For SBA Associates
Chartered Accountants
FRN 308136E

[Signature]
CA. Santhosha Kumar
Partner
M.No. 217496

22/3/22

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

UBA- Sanction Letter

The Drawing and Disbursing Officer
All India Council for Technical Education
Nelson Mandela Marg, Vasant Kunj,
New Delhi-110067



Sub: Release of a sum of Rs. 381000/- for conduct of Unnat Bharat Abhiyan (UBA)-reg

Sir,

This is to convey the sanction of the Council for payment of Rs. 381000/- (Rupees Three Lakh Eighty-One Thousand only) for conduct of UBA project on IMPLEMENTATION OF DRINKING WATER FACILITY AND LIGHTING FACILITY TO THE RURAL PLACE to DR. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE URBAN Pin No -560056, Karnataka under the scheme of Unnat Bharat Abhiyan (UBA).

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The sanctioned amount is debit to the major head: 602.19.a (Non-plan) UBA and is valid for payment during the financial year 2019-20.

The instructions/guidelines to be followed by University/Institution

1. Release of funds and maintenance of accounts

- a. The Principal of the institute and the Coordinator of the program are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released: -

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATP1325M	SYNDICATE BANK	Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY BRANCH	MALLTHAH ALLI, NAGARABH AVI 2ND STAGE	Principal, Dr. AIT	Saving Account	0486201 0032608	SYNB000486

In case of any omission the same should be reported to AICTE immediately.

- The Institute shall strictly follow the provisions laid down in the scheme document and sanction order no F.No. 52-3 /RIFD/UBA/Policy-1/2017-18 dated-06.06.2019 issued by this office unless and otherwise mentioned herein.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE.
- The University/College/Institute shall maintain an audited record of assets acquired wholly or substantially out of the grant and a register of assets shall be maintained by the Institute in the prescribed form, i.e. General Financial Rules (GFR)-19.
- The University/College/Institute shall utilize grant only on approved items of expenditure and maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Govt. of India.

Dated: 27 June 2019

- g. The Institute/College/University shall not charge any overheads on this project and will provide all the administrative support for completion of the project.

II. Disbursement of funds to institutions

- a. The full amount of the grant sanctioned is being released as advance to the University/Institute.
- b. The above said amount of grant shall be released on the basis of the Letter of Approval (LOA) issued by AICTE to the institute for the academic year 2019-20.
- c. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The institute receiving the grant should reflect the same in the audited statement of accounts/Utilization Certificate and refund the interest amount to AICTE.

III. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution after completion of the project:
 - (i) Audited Utilization Certificate,
 - (ii) Receipt & Payment account,
 - (iii) Annual Progress Report,
 - (iv) General Financial Rules (GFR-19),
 - (v) Feedback Form.
 - (vi) Project completion Report (*formats are enclosed*).
 - (vii) The grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the All India Council for Technical Education within one month of completion of financial year. It should contain the head-wise break-up of expenditure made from the grant-in-aid provided by the Council along with photocopies of Bills/Cash memos on account of items purchased under non-recurring head duly attested by Head of Office.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

IV. General instructions

- a. Duration of the project will be 2 years. The requisite documents must be submitted to AICTE after completion of the project.
- b. The acceptance letter of sanction order should reach this office within 15 days from the date of receipt of the Sanction order duly signed by Coordinator and Head of the institutions.
- c. The outcome of the proposal as mentioned in the original proposal be submitted to AICTE within 15 days of receipt of the sanction order.
- d. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and the Principles of the Scheme.
- e. The Annual Progress Report in the prescribed format indicating the progress and the status of the grant-in-aid utilized in the previous financial year shall be submitted to AICTE not later than one month of the following financial year.
- f. The University/Institute shall follow the terms and conditions as laid down by the Council from time to time.
- g. The Grantee Institution shall follow strictly all the instructions issued by the Government of India from time to time with regard to reservation of posts for Scheduled Castes and Scheduled Tribes. The grantee institution shall utilize the fund as per the guidelines of the scheme.
- h. The project sanctioned by the AICTE is assigned a specific file number which is mentioned above. All correspondence addressed to AICTE regarding the project must quote this number along with year of sanction of the project otherwise the correspondence will not be entertained.
- i. The assets acquired wholly or substantially out of All India Council for Technical Education's grants shall not

be disposed or encumbered or utilized for purposes other than those for which the Grant was given, without proper sanction of the All India Council for Technical Education and should at any time the Institution ceased to function, such assets shall revert to the All India Council for Technical Education.

- j) Gol GFR rules(@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant
- k) This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,



Dileep N. Malkhede
Adviser-I (RIFD)

28/6/19

Encl : As above

Copy forwarded for information and necessary action to :

1. **Name and Address of the Coordinator**

✓
DR. MEENAKSHI MANJALAGIRI
DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
OUTER RING ROAD, NEAR JNANA BHARATHI
CAMPUS, MALLATHAHALLI, BANGALORE
KARNATAKA, BANGALORE URBAN
BANGALORE- 560056

The Registrar / Director / Principal

Dr. C. Nanjunda swamy
DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
OUTER RING ROAD, NEAR JNANA BHARATHI
CAMPUS, MALLATHAHALLI, BANGALORE
KARNATAKA, BANGALORE URBAN
BANGALORE- 560056

2. **Guard File**

OUTCOME OF THE STTP

- WO1. Understand the process of course design in the framework of OBE and the NBA.
- WO2. Understand the design of formative and summative assessments.
- WO3. Understand the process of creating an active-learning classroom, flipped classroom, and student collaborations.
- WO4. Understand the features of MOODLE Learning Management System.
- WO5. Understand the use of some simple visualization tools.

RESOURCE PERSONS

Prof. N.J. Rao, Rtd. Professor, IISc., Bengaluru
Prof. K. Rajanikanth, Former advisor, MSRIT, Bengaluru
Ms. Vani Sastry, Bengaluru and
Ms. Sudha Aithal, Bengaluru

CHIEF PATRON

Sri. S. Mariswamy, Chairman, PVP Welfare Trust

PATRONS

Dr. M. Mahadeva, Managing Trustee / Secretary, PVP Welfare Trust
Sri. S. Shivamallu, Treasurer, PVP Welfare Trust
Sri. P. L. Nanjundaswamy, Trustee, PVP Welfare Trust
Sri. A. R. Krishnamurthy, Trustee PVP Welfare Trust
Dr. B.N. Umesh, Trustee PVP Welfare Trust

PRINCIPAL

Dr. C. Nanjunda Swamy

PROGRAM COORDINATOR

Dr. M.Meenakshi, Professor & HOD, EIE

CO-COORDINATORS

Mrs. Shubha P, Asst. Professor
Mrs. Monikashree. T.S, Asst. Professor
Mrs. Hamsa Rekha S D, Asst. Professor

Contact: +91-9880461052, 7760272354, 9916677415
Email: eiesttpaict@gmail.com

ORGANIZING COMMITTEE

Faculty and Staff, Dept. of Electronics & Instrumentation Engineering



Dr. Ambedkar Institute of Technology
Mallathahalli, Near Jnanabharathi Campus Bangalore,
560056, Karnataka, India
www.drait.edu.in



***AICTE sponsored one week online
Short Term Training Program***

On

**Pedagogy for Effective use of ICT in
Engineering Education**

Slot1: 23rd to 28th Nov 2020

Slot2: 7th to 12th Dec 2020

Slot3: 4th to 9th Jan 2021

Platform: Google meet

Organized by

**Department of Electronics and Instrumentation
Engineering**

REGISTRATION LINK

<https://forms.gle/SH3bKcaKMkfkfsbW9>

“Registration is Free”

Registration limited to 60 participants – First come first serve basis

ABOUT THE INSTITUTION

Dr. Ambedkar Institute of Technology was founded by Late Sri. M H Jayaprakash Narayan, in the year 1980 on the ideals of the great Bharatha Rathna Dr. B.R. Ambedkar, whose life was a saga of learning and uplifting the down trodden of the society. The Institution is one of the premier grant-in-aid by Government of Karnataka, approved by AICTE, New Delhi, Autonomous Institution affiliated to VTU, Belagavi and Managed by Panchajanya Vidya Peeta Welfare Trust, Bangalore. The Institution offers ten undergraduate, eleven postgraduate programmes (PG) of engineering including MBA, MCA. In addition Institution holds currently 15 research centers recognized by VTU. The Institution is accredited by NAAC with 'A' Grade and all eligible programmes by National board of accreditation (NBA).

ABOUT THE DEPARTMENT

Department of Electronics and Instrumentation Engineering was started in the year 1985 and has well equipped laboratories to meet the needs of curriculum as well as Research activities. The department is recognized as research center under VTU Belgaum. The department has well qualified and dedicated faculties to impart fundamental and applied knowledge in the field of controls, Instrumentation, Signal Processing, Biomedical, Embedded Systems etc.

VISION

To develop globally competent Electronics and Instrumentation Engineers with societal, environmental and human values through quality education, training and research.

MISSION

- To educate the students with the state of art technologies to meet the growing challenges of the industry and society
- To carry out research through constant interaction with research organizations and industry.
- Inculcate in students the lifelong learning attitude and passion for serving the society with moral and ethical values

OBJECTIVE

The role of ICT in education is becoming more and more important, and its importance will continue to grow in future. Use of ICT can facilitate pedagogically superior instructional methods that can significantly enhance active participation of students in the classroom. Many of the technologies have been evolving over the past two decades. The AICTE and UGC have been urging all educational institutions to use these educational technologies in the classrooms. Unfortunately, their use continues to remain very limited. The pandemic forced the entire country to move into a new normal. In the immediate future, all teaching-learning processes need to be conducted online. In the post-COVID situation ICT tools can be used to make the teaching-learning activities more effective, engaging, and efficient.

The main aim of this online workshop is to make participating teachers to experience online instruction and explore some ICT tools for education for the courses they teach. The effective use of ICT tools requires systematic design of courses, and familiarity with the tools that can enhance communication between the teacher and students, and even reduce the burden on the teacher. The workshop will present the design of courses including the design of assessments in alignment with outcomes, ICT tools for active-learning and collaboration, and assessment. It also explores the advantages of blended learning including flipped classroom.

MODE OF CONDUCTION

The workshop will be conducted online over five days with three one-and-half hour sessions per day. Each session will have two parts with Q&A sessions after each part. Two sessions will be conducted in the morning from 10.00 to 13.15 hours with 10-minutes break between the sessions. The afternoon session will be from 14.00 to 15.30 hours. The slides used by the resource persons with some additional resource material will be made available on the MOODLE website specially created for the workshop. There will be an online test conducted during the last session of the workshop. One mock test will be made available in the evening of the fourth day.

SCHEDULE OF THE STTP

This STTP program will be conducted in three phases from November 2020 to December 2020 as:

Slot 1: 23rd to 28th Nov 2020 (Last date for registration: 20th Nov, 2020)

Slot 2: 7th to 12th Dec 2020 (Last date for registration: 4th Dec, 2020)

Slot 3: 4th to 9th Jan 2021 (Last date for registration: 1st Jan, 2021)

Participants are welcome to join this program by selecting the above-mentioned schedules. Intimation to the participant about confirmation of Registration shall be given 2 days after the last date of registration. The daily schedule will be in three sessions starting from 10.00 am to 3.30 pm.

ELIGIBILITY FOR REGISTRATION

The programme is open to faculty of Engineering Colleges, Universities and other allied disciplines in India. Industry persons working in the concerned /allied areas can also attend

ELIGIBILITY FOR E-CERTIFICATE

- Attending Every Session is Mandatory.
- Getting a Score of greater than 60% in the test conducted on the last day of STTP (Day5).