3.2.2 Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years

| Name of of the PI/ Co-PI/ Name of the person holding the Chair | Title of the research project, endowments, Research Chairs | Name of the funding agency | Duration | Year of award or sanction | Amount in INR. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dr.K.Vaidehi | AI and Machine learing | IIITDM, JABALPUR | 6 DAYS | 2019 | Rs.1,01840/- |  |
| A. Gopala Sharma | ECE-FDP(ICT tools for teaching, Learning Process and Institutes) | IIIT DM, Jabalpur | 13th-17th January 2020 | 2020 | Rs. 84,200 /- |  |
| Dr K.Rama Krishna | IT-FDP(Naltural Languae Processing) | IIIT DM, Jabalpur | 6th-10th January 2020 | 2020 | Rs.1,05000/- |  |
| A. Gopala Sharma | IOT and Smart Sensors Lab | AICTE | $\begin{gathered} 2020-21 \text { to } \\ 2021-22 \\ \hline \end{gathered}$ | 2020 | Rs.13,27,294 /- |  |
| Dr.B.V.RamanaMurthy | Data Supervision and Computing lab | AICTE-Modrobs | 2 years | 2020 | Rs.11,22,745/- |  |
| Dr.K.Vaidehi | National Conference forWomen on Innovations in Science Engineering \& Technology. | AICTE-Conferenc | 2 days | 2021 | Rs.1,63,333/- |  |
| Dr. G. Karthik | SPICES | AICTE | 2021-22 | 2022 | Rs.1,00,000 /- |  |
| Dr. G. Karthik | ATAL-FDP-Advance <br> s in Electronics and Communication <br> Engineering for <br> Industrial <br> Applications | AICTE | 2021-22 | 2021 | Rs.93,000/- |  |
| Dr K.L.Vasundhara | ATAL-FDP-Role of Mathematics in Future Technologies | AICTE | 2021-22 | 2021 | Rs.93,000/- |  |
| Dr. G. Padmasree | Effect of <br> Neodymium(Nd) and Praseodymium (Pr)doping on structural,magnetic <br> electrical,magnetic, electrical,dielectric, optical and Mossbauer properties of YFeO 3 | UGC DAE CSR | 3 years | 2021 | Rs. 2,58,000 per annum |  |
| Dr. G. Karthik | DST | Ministry of Science and Technology, DST | 2023-26 | 2023 | Rs.47,63,158 /- |  |
|  |  |  |  |  |  |  |
| Note: The above highlighted 3 rows were newly added to te data template 3.2.2. Since, there is no provision to modify the data template,Print out of the same is added for your reference. |  |  |  | Crity fimend 1. <br>  <br> Chapel Road, Abids, Hyderabad-01. <br> College Code: 1606 |  |  |

## Stanley College of Engineering \& Technology for Women

## (Autonomous)

## 3. Research, Innovations and Extension

## 3.2: Resource Mobilization for Research

3.2.2.1.Number of research projects funded by government and nongovernment agencies during the last five years. Related Input Total number of full time teachers worked/working in the institution (without repeat count) during last five years: 8
3.2.2.1.2.List of project titles with details of Principal Investigator, amount sanctioned and sanctioning agency etc



## Stanley College of Engg. \& Tech. for Women A 20-21 +5-78 to 82 Chapel Road. <br> Abide Hyderabad 500001 <br> EMail : rsureshestantey eduin <br> Receipt Voucher

| No. 364 | Dated $: 25-M a r-21$ |  |
| :--- | :---: | :---: |
| Particulars |  | Amount |
| Account: |  | $1,05,000.00$ |
| IITDME Work Shop Grants | $1,01,840.00$ |  |
| IUTDME Work Shop Grants | $84,200,00$ |  |

Through
S81-62079191810
On Account of :
Being work shop grants recency
amount fin words) :
INR Two Lat Ninety One Thousand Forty Only
₹ $2,91,040.00$

/ $8 / 2024$
PRINCIPAL
 TECHNOLOGY FOR WOMEN (RUT ORE........

## 

Digital India


## Stanley College of Engineering \& Technology for Women

Accredited by NBA (all eligible UG Courses) \& NAAC 'A' Grade Chapel Road, Abids, Hyderabad, India

You are cordially invited to attend the INAUGURAL function of One Week Faculty Development Program On

## Artificial Intelligence \& Machine Learning

In collaboration with E\&ICT Academy IIITDM Jabalpur
On
$23^{\text {rd }}$ December 2019 at 9.00AM
Venue: D-Block Lab 3 \&4
Chief Patron
Sri K. Krishna Roo
Correspondent, SCETW
Patron

Dr. A. Vinaya Babu, Director, SCETW

Dr. K. Rama Krishna
Head - R\&D, SCETW

Dr. K. Vaidehi
Associate Prof., CSE
Mrs. Sumayya Afreen
Asst. Prof., CSE

Dr.Satya Prasad Lanka
Principal, SCETW

## Convenor

Dr. B.V.Ramana murthy Head-CSE, SCETW

Co-ordinators

Dr. YVSS Pragathi Professor CSE

Mrs. M.Soumya
Asst. Prof., CSE


Government of India Initiative for Employability Enhancement


India is fast emerging as a world power in Information, Communications Techology and Electronies (ICTE) sectors. To complementits growthand further development, there is an ever-increasing need for trained orofessionials with specialization in this space. This includes training of professionals not only in existing aind changing technologies but also in the fields of $R \&$. D and electronics manufacturing. This will specifically be aimed at the ICTE sector to create a substantial resource pool of talent and Senerate ample opportunities for entrepreneurs.

Ministry of Electronics \& Information Technology (Meity) has approved a scheme and setup Electronics and ICI Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna and IIITDM vabalpur (all five under Gategory-A); and IIT Roorkee, MNIT Jaipur (both under Category B). The Ministry had earlier setup two (CT Academies at Tamil Nadu and Kerala respectively. Estimated cost and targets for the Electronics and ICI Academy in the two categories for a period of four years are as under:

| Category | Total Outlay | Internal Revenue <br> Generation | Grants-in-Aid from <br> Central Government | Training Target <br> (Faculty members) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Category-A | Rs. 25 crore | Rs. 7.50 crore | Rs. 17.50 crore |  |
| Category-B | Rs. 10 crore | Rs. 3.00 crore | Rs. 7.00 crore | 16,000 |
|  |  | 6,400 |  |  |

These Academies are aimed at faculty / mentor development and up gradation to improve the employability of the graduates, diploma holders in various streams, through collaboration of States/Union Territories, Each Academy is being provided funding support for four years and is expected to generate revenue by charging fee and taking up other activities to meet the recurring cost in gradual manner and become self-sustainable by the end of fourth year onwards. All these Academies will cater to the requirements of identified neighbouring States and UTS also. Briefinformation about all the Academies is available at: htips://meity goviin/esdm/scheme-financial-assistance-setting-electronics-and-ict-academies

## Activities of the Academies

- Faculty Development for
- Specialized training with hands-on on basic and advanced level topics for Engineering streams
- Domain based training on use of ICT tools and techniques for Non-Engineering streams
- Training and Consultancy services for industry
- Curriculum Development for Industry
- Continuing Education programme for students / working professionals
- Design, Develop and Deliver specialized modules for specific research areas
- Providing advice and support for Technical Incubation and Entrepreneurial activities


## About Winter Courses

Faculty Development Programmes in core areas of Electronics and Information \& Communication Technology (ICT) streams have been planned by academies for delivery during Winters (i.e.,Dec'19-Jan²0). All these winter courses will be offered through National Knowledge Network (NKN) based Video Conferencing, with lectures delivered by invited experts from IITs, NITs, IIITs and other premier institutes / industries. In addition, local course coordinators at respective academies / identified remote centres will take care of sessions on design orientation / activity linked problems / assignments / case studies and quiz test(s). All seven EICT Academies will host the participants simultaneously along with some select remote centres all over our country, through NKN-VC infrastructure. Candidates could attend the training programme at Academy locations or at identified remote centres as per the convenience. For registration participants need to apply to one of the Academies, however, they can attend the training programme at that Academy or any remote centre attached to that respective Academy, please refer to respective academy websites.

## How to Apply:

* A duly filled in application form in the prescribed form signed by the Head of the Institute to which the candidate belongs (along with demand draft/CBS-Cheque) should reach by post to the local coordinator of the participating academy.
* Government of India norms will be followed for SC/ST category participants.
* The application form along with the DD/CBS-Cheque can also be submitted in the online mode to Local Coordinator of the respective academy.

Following are the programmes being offered in this Winter, Dec. 2019 - Jan 2020 :


## Target Beneficiaries:

Interested Faculty of Engineering / Technical Institutions are eligible to attend these winter courses.

## Availability of seats at each offering Academy:

Fifty (50) seats are available for each course to be offered at each Academy / Remote Centre. Participants will be selected based on first-cum-first-serve basis by each academy. Selected participants will be communicated through e-mail / notified in E\&ICT Academy websites.

## Course duration:

Each course is designed as 3 credit equivalent for 40 hours (Theory Lectures, Hands-on / Design orientation / Activity linked problems / Assignments Problem Solving / Case Studies sessions / Quiz Tests)

## Accommodation \& Travel

Boarding and Lodging at Hostels / Guest House will be provided at free of cost only at Identified E\&ICT Academies depending upon availability and first-cum-first-serve basis. For details please refer to respective Academy websites. At identified remote centres only working lunch and snacks will be provided. No Travel Allowance will be paid to the participants.

## Registration Fee for each Winter Course:

No Registration fee is charged for attending this programme planned at any designated academies / remote centres. However, candidate should submit a Demand Draft/CBS-Chque of Rs. 1000/- along with application form and the same will be returned to the participant on the last day of the training. Certificate for participation as well as for satisfactory performance will be given to the participants subject to fulfillment of attending all sessions, submission of assignments and clearing the test(s).

## Mode of Payment:

## Academy Name

Payment through DD / CBS-Cheque
IIT Guwahati
IIITDM Jabalpur
MNIT Jaipur
NIT Patna
IIT Roorkee
NIT Warangal

Demand Draft / CBS-Cheque in favor of "Registrar, IIT Guwahati" payable at Guwahati Demand Draft/ CBS -Cheque in favor of "Electronics and ICT Academy, IIITDMJ" payable at Jabalpur Demand Draft / CBS-Cheque in favor of "Electronics and ICT Academy, MNIT Jaipur" payable at Jaipur Demand Draft / CBS-Cheque in favor of "Director, NIT Patna" payable at Patna Demand Draft / CBS-Cheque in favor of "Dean SRIC IIT Roorkee" payable at Roorkee Demand Draft / CBS-Cheque in favor of "Electronics and ICT Academy, NITW" payable at NIT Warangal

Prospective External Experts- (i) Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd (ii) Mr. Ishan Vaid, Trainer, IBM Partner
Experts from host institutes- (i) Dr. Pilli Emmanuel Shubhakar, MNITJ

## Module Details of Python Programming with Industry Perspective

## S.No.

1. Introduction \& basics of Python Programming:
2. Decision Statements; Loop Control Statements; Functions, Strings
3. Lists and Dictionaries; Tuples and Sets; File Handling; Pandas
4. Data Handling and Use Cases
5. Machine Learning

## Topics

History of Python, Installing Python, Executing Python Programs, Internal Working of Python, Python Implementations.
Python Character Set, Token, Python Core Data Type, print() function, Assigning Value to Variable, input() function, eval() function, Formatting Number and Strings, Operators and Expressions
Boolean Type, Boolean Operators, Using Number and Strings with Boolean Operators, Decision Making Statements and Conditional Expressions While loop, range( ) Function, For Loop, Nested Loops, Break Statement, Continue Statement Syntax and Basics of a Function, Use of a function, Parameters and Arguments, Local and Global Scope Scope of a Variable, return statement and Recursive Functions. str class, Inbuilt functions for String, index[] operator, traversal of String, String operators, String Operations
Creating Lists, Basic list operators, Slicing, Inbuilt functions for Lists, List operator, List Methods, Splitting, Need of Dictionary, Creating a Dictionary, Adding and Replacing Values, Retrieving Values ; Deleting Items and Traversing Dictionaries.
Tuples and Sets: Creating Tuples; Tuple () Function, Inbuilt Functions for Tuples, Indexing and Slicing; Operations on Tuples; Traverse Tuples from a List, Set operators; Set class.
Object-Oriented Programming: Classes and objects, methods, Operator Overloading, Inheritance, Super () and Method Overriding.
File Handling: Need of File Handling, Reading/Writing Text and Numbers to/from a File; Directories on a disk.
Pandas: Using pandas, the python data analysis library and data frames
RE Pattern Matching, Parsing Data, Introduction to Regression, Types of Regression, Use Cases, Exploratory data analysis, Correlation Matrix, Visualization using Matplotlib and Implementing linear regression.
Machine Learning - Algorithm, Algorithms - Random forest, Super vector Machine, Random Forest, Build your own model in python and Comparison between random forest and decision tree.

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## Dr. Pili Emmanuel Shubhakar

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Dr. Somaraju Suvvari somaraju@nitp.ac.in M: +91-9676430356

Prospective External Experts- (i) Prof. Chakravarthy Bhagvati, University of Hyderabad (ii) Dr. Madan Dabbeeru, Rakuten India Bengaluru (iii) Experts from IBM and MATLAB.

Experts from host institutes- (i) Prof. Aparajita Ojha, IIITDMJ (ii) Dr. Santosh Vipparthi, MNITJ

## Module Details of Deep Learning \& Applications

## s. No. Module Name

1. Introduction to Machine Learning and Artificial Neural Networks
2. Convolutional Neural Networks
3. Autoencoders and Generative Serial Networks
4. Recurrent Neural Networks

5
CNN Application to
Classification and Detection
Problems

## Topics

Overview of machine learning, Supervised and unsupervised learning, Artificial Neural Networks, Feedforward Neural networks, Gradient Descent and the back propagation algorithms, Regularization and Optimization. Difference between typical machine learning and deep learning
Practice Session: Introduction to Python Programming, Tensorflow and Keras. Making a Neural Network, training and testing. Saving the best weights and model Convolutional Neural Network (CNN), Convolution/Pooling layers, Activation maps, CNN as a feature extractor, Some Standard CNN architectures like AlexNet, VGGNet, GoogLeNet, ResNet and more recent networks
Practice Session: Building a CNN model, CNN for image classification. Using GoogelColab for building and training Deep Learning Models.
Autoencoders (ABs), Undercomplete and Overcomplete AE, Convolutional AE, Regularization, Sparsely regulated AEs, Denoising and Stacked AE. Generative Adversarial Networks (GAN), Variants of GAN.
Practice Session: Using pretrained models, Transfer learning, Applying GoogleNet and ResNet for specific problems. Using Autoencoders
Brief Introduction to Recurrent Neural Networks, LSTM, GRU and their applications in machine translation, language modelling and sentiment classification.
Practice Session: Building an Al application for sentiment classification from travel hotel website user feedback data.
Object detection algorithms, R-CNN, Faster R-CNN, YOLO and SSD. Hands on-Object detection.
Practice Session: Installing Darknet framework on your laptop, how to use YOLO for object detection.

## Principal <br> Coordinator-Academy <br> Prof. Aparajita Ojha <br> aojha@iiitdmj.ac.in <br> M: +91-9425800334 <br> IIITDM Jabalpur

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NiT Warangal - Prof. R. B. V. Subramanyam
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Prospective External Experts- (i) Dr. H. S. Jatana, SCL-ISRO, Chandigarh (ii) Industry support- VLSI System Design Corp.
Experts from host institutes- (i) Prof. Gaurav Trivedi, IITG, (ii) Prof. Vineet Sahula, MNITJ
The participants will additionally get exposure for integrating SCL (ISRO, Chandigarh) PDK library kit with open source CAD tools.

## Module Details of VLSI Chip Design Hands on using Open Source EDA

## S.No. Module Name

1. Study various components of RISC-V microprocessor based SoC and review all components using MAGICLayout tool
2. Study the importance of standard cell library and design \& characterize one cell using MAGIC Layout tool and ngSPICE for SPICE simulations
3. Pre-layout timing analysis of SOC using OpenSTA, chip planning using MAGIC and block-level placement/routing using qflow RTL2GDS opensource EDA tool chain
4. Hierarchical placement/routing using pads and blocks, and perform sign-off checks viz. LVS/DRC using Magic
5. Post-layout timing analysis using OpenSTA and engineering change order (ECO) using Tritonsizer

Brief introduction RISC-VISA
Overview of RISC-V based micro-processor and its related SoC
Overview of QFN48 package, pads, macros and memory in MAGIC
Idea of chip-planning, aspect ratio, utilization factor, power planning, decoupling capacitor, pads/memory and macro placement
Pros and cons of good-bad floor plan
Introduction to lab to create floor plan for small design, which will be covered in detail on Day 4)
System-on-Chip (SoC) planning and design concepts overview
Physical design overview
Why Libraries are called the soul and heart of semi-conductor industry?
Standard celis library overview
Art of layout-Stick diagram + Euler's path using MAGIC
Characterization of important parameters using ngSPICE
Introduction to 16-Mask CMOS process and its significance to chip design flow
Logic synthesis and high fanout net synthesis interactive tutorial using Yosys open source synthesis tool

Introduction to static timing analysis and the related Industry standard reporting formats
Pre-layout timing analysis of a design using Open STA open source STA tool, which includes setup timing analysis for reg2reg and IO
Introduction to clock tree synthesis (CTS) and its related checks viz. skew, latency, pulse-width, duty cycle
Placement/Routing/CTS of a design using qflow open source RTL2GDS tool
Perform CTS quality and routing quality checks using OpenSTA
Full chip integration using MAGIC for a design with blocks and pads.
Revise floor plan from Day 2
Populate layout from library manager in MAGIC, select digital core block and additional pads
Arrange pads and create a pad-frame hierarchy
Project work using SiFive E31 RISC-V design blocks

## Principal Coordinator Academy

Dr. Gaurav Trivedi trivedi@iitg.ernet.in M: +91-9435582802 IIT Guwahati

## Co-Principal Coordinator-Academy

## Prof. Vineet Sahula

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$\begin{array}{ll}\text { NIT Patna- Dr. Bal Chand Nagar } & \text { Mr. Pankaj Kumar } \\ \text { balchandnagar@nitp.ac.in } & \text { pankajjha@nitp.ac.in }\end{array}$
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Prospective External Experts: Experts from NVIDIA /IITM / IISc Bangalore / IIT Gandhinagar
Experts from host institutes- (i) Dr. R. Balasubramanian, IITR (ii) Dr. Partha Pratim Roy, IITR (iii) Dr. S. J. Nanda, MNITJ

## Module Details of AI \& Machine Learning

## S. No. Module Name

1. Al Fundamentals
2. Searc̣h Techniques and Knowledge Representation
3. ML Fundamentals
4. Machine Learning Algorithms
5. Neural Network and its Applications

## Topins

Fundamental Concepts of Al: Agents, environments, general model; Problem Solving techniques.

Uninformed search, heuristic search, adversarial search and game trees; Solution of constraint satisfaction problems using Search. Propositional and predicate calculus, semantics for predicate calculus, inference rules.

Basic machine learning concepts and examples, Regression Analysis, Decision trees
Supervised and Unsupervised Learning, Ensemble methods (Boosting, Bagging) Random Forest, Dimensionality Reduction (PCA, LDA, KPCA), SVM

Artificial Neural Network (Multi-Layer Perception), An Insight on Deep Learning Algorithms, Applications in Imaging \& Data Analytics

| Principal <br> Cocrdinator-Academy | Co- Principal <br> Coordinator-Academy |
| :--- | :--- |
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## Dr. Partha Pratim Roy

 proy.fcs@iitr.ac.in L: 01332-286457

Prospective External Experts: (i) Prof. Pushpak Bhattacharya, ITB (ii) Dr. Asif Ekbal, IITP (iii) Dr. Sriparna Saha, IITP
Experts from host institutes- (i) Dr. Atul Gupta, IIITDMJ (ii) Dr. J. P. Singh, NITP (iii) Dr. Namita Mitral, MNITJ

## Module Details of Natural Language Processing

## SiND. <br> Module Name:

1. Intro and Text Classification
2. Language Modelling and Sequence Tagging

## 3. Vector Space Models of

 Semantics4 Syntactic Processing

5 Sequence to Sequence Tasks

6 Dialog Systems

7 Unification-based NLP and Semantics

Topics
Processing Text using Perl, Use of Regular Expressions, Elements of Morphology, Character N-gram Based Text Mining, Text Classification
Texts as sequences of words. language modeling and use for suggests in search, machine translation, chat-bots, etc predict a sequence of tags for a sequence of words. part-of-speech tags, named entities or any other tags, Probabilistic Modeling, N -grams Model, HMM Model, Sum-product Algorithms
Higher abstraction for texts: vectors representing meanings traditional models of distributional semantics, cover modern tools for word and sentence embeddings, such as word2vec, Fast Text, Star Space
Phrase Structure and Natural Language Syntax, Chart Parsing and CYK Algorithm, Probabilistic Context-Free Grammars

A sequence to sequence task: machine translation, summarization, question answering, a general encoder-decoder-attention architecture
Task-oriented dialog systems like Apple Siri or Amazon Alexa. main building blocks of such systems namely Natural Language Understanding (NLU) and Dialog Manager (DM)
First-order Predicate Logic and Resolution, Classical and Feature-structure Unification, Unification-based Grammars

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STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN (AUTONOMOUS) Chapel Road, Abids, Hyderabad, Telangana

Prospective External Experts: (i) Prof. D. B. Phatak, IITB (ii) Prof. Prabhakar, IITK (confirmation awaited)
Experts from host institutes- (i) Prof. Aparajita Ojha, IIITDMJ (ii) Dr. Pilli Emmanuel Shubhakar, MNITJ, (iii) Dr. Arka Prokash Mazumdar, MNITJ, (iv) Dr. A. M. Joshi, MNITJ, (v) Dr. R. K. Maddila, MNITJ

Module Details of ICT Tools \& Techniques for Teaching, Learning process \& Institutes
Information and Communication Technology is expected to be a game changer for developing economy like India. Digital Services would be all pervading, ensuring faster action and quick dissemination of information.
Education Institutes are expected to be first movers in this since usage here allows quick proliferation through the society, also with the aim of increasing enrolment at Higher education level, the needs of providing quality education can anly be met through ICT only.

## S.No: Module Name

## Topics

Effective use of ICT for transforming pedagogy and empowering students; Empowerment through Communication skills
Adopting online/blended-learning in teaching learning process
Use of MooC for contents management, class organization, assessment; MooC's deployment and use; Building Course Website and Google Suite
Using tools for teaching learning- interactive whiteboards/smart-screens, videoconferencing, digital content creation, design of instructional material \& presentation; Content Dissemination, Management, Version Control; ICT tool for English language teaching and learning; Illustration tools and author aids Visio
CBT for letters generation, certificate preparation, report writing, Presentation and posters preparation, Spread sheets \& evaluation, Research Resources \& Bibliography Management etc.

## Principal <br> Coordinator-Academy

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 STANLEY COLLEGE OF ENGINEERING AND PECHNOLOGY FOR WOMEN (AUTONOMOUS) Chapel Road, Abids, Hyderabad, Telangana


## APPLICATION FORM FOR Winter FDPs (Dec'19 - Jan'20) [Xerox copies are permitted] E \& ICT ACADEMY <br> An initiative of Ministry of Electronics \& IT, Government of India



## Choice matrix for Name and Academy of the Winter - Course Applying for:

| S.No. | Name of the Winters-2019 Course <br> (Tick in the blank column on right side with $\checkmark$ ) (Send copies of this form to all individual academies you have ticked with separate DD) |  |  | $\begin{aligned} & \frac{\stackrel{\rightharpoonup}{\circ}}{\bar{N}} \\ & \stackrel{\rightharpoonup}{5} \end{aligned}$ | $\begin{aligned} & \text { 采 } \\ & \text { ² } \\ & \stackrel{5}{2} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Python Programming with Industry perspective (2-6 Dec'19) | $x$ |  |  |  | x | $\times$ |
| 2. | Deep Learning and Applications (9-13 Dec'19) | X |  |  |  | X |  |
| 3. | VLSI Chip Design Hands on using open source EDA (16-20 Dec'19) |  |  |  |  | X | X |
| 4. | Al \& Machine Learning (23-27 Dec'19) | $x$ | X |  |  |  | $x$ |
| 5. | Natural Language Processing (6-10 Jan'20) | $\times$ |  |  |  | X | X |
| 6. | ICT Tools for Teaching, Learning process \& Institutes (All Academies) (13-17 Jan'20) | $x$ |  |  |  | X | X |

Affix recent pass-port size photo of the applicant

Name of the Applicant: $\qquad$ (in Block letters) Father's Name: $\qquad$
Designation: $\qquad$ (Faculty/Industry Professional / Other) (Tick one)

Name of the Institution /organization to which the candidate belongs: $\qquad$
Address for communication: $\qquad$
Ph.No: $\qquad$
E-mail (preferably at organization): $\qquad$ Mobile No. $\qquad$
Gender: Male / Female $\qquad$ Date of birth and Age: $\qquad$
Aadhar Card No: $\qquad$ (Attach Copy)

Do you belong to SC / ST: Yes / No (If Yes, attach photocopy of the proof)
Payment by DD / CBS-Cheque / online transfer for Rs. 1000/- (refundable):

| Payment Mode | Bank Name | Demand Draft No. / | e No. / Transaction ID | Date |
| :---: | :---: | :---: | :---: | :---: |
| DD / CBS-Cheque/ Online |  |  |  |  |
| Highest educational Qualifications with specialization: Accommodation required (only if attending at one of EICT |  |  | Yes / No | CIP |
| DECLARATION \& FORWARDING |  |  | STANLEY COLLEGE OF ENGINEERING ANE |  |
| The information provided is true to the best of my knowledge and belief. |  |  | Chapel Road, Abids, Hyderabad, Telangana |  |

(Declaration with Signature of the Applicant)


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## ELECTRONICS INDIA


ESDM Make in India Initiative


Prityush: India's fastest and first multi-peta-flops supercomputer


## Academy \& State Catered

## Electronics \& ICT Academy

 at IIT GuwahatiAssam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Tripura, Sikkim

## Electronics \& ICT Academy

 at IIIT DM JabalpurMadhya Pradesh,
Chhattisgarh, Maharashtra
Electronics \& ICT Academy

## at MNIT Jaipur

Rajasthan, Gujarat, Dadra
\& Nagar Haveli, Daman \& Diu

## Electronics \& ICT Academy

at IIT Kanpur
UP, Punjab, Haryana, Delhi

Electronics \& ICT Academy at NIT Patna
Bihar, Jharkhand, Odisha, West Bengal

Electronics \& ICT Academy at IIT Roorkee
Jammu and Kashmir,
Himachal Pradesh and Uttarakhand

## Electronics \& ICT Academy

 at NIT WarangalTelangana, Andhra Pradesh, Karnataka,
Puducherry, Andaman and
Nicobar Islands, Goa
Advisory Board Chairman

Prof. T. G. Sitharam director@iitg.ac.in

## Prof Sanjeev Jain

director@iiitdmj.ac.in

Prof. Udaykumar R. Y. director@mnit.ac.in

## Prof. Abhay Karandikar

 director@iitk.ac.in
## Prof. Pradip Kumar Jain

 director@nitp.ac.inProf. Ajit K. Chaturvedi director@iitr.ac.in

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M: +91-949 1346969

Contact Details at Academy For all general queries

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Dr. Shailesh Sharma (PM)
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https://ict.iitk.ac.in/
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http://eict.iitr.ac.in/
Email:eict.nitw@gmail.com M: +91-9121016547 http://nitw.ac.in/eict/

## ONE WEEK FDP "AI \& ML" 23rd ${ }^{\text {rd }} \mathbf{2 7}^{\text {th }}$ December 2019




Salyo ralrel. PRINCIPALS/ $/ 2024$ STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN (AUTONOMOUS) Chapel Road, Abids, Hyderabad, Telangana



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 TECHNOLOGY FOR WOMEN (AUTONOMOUS)
Chapel Road, Abids, Hyderabad, Telangana



# Stanley College of Ing.\& Tech. for Women A $20-21$ <br> \#5-78 to 82 Chapel Road <br> Abids. Hyderabad <br> 500001 <br> EMail: rsuresh@stanley eduin <br> ReceIpt Voucher 



Through :
SB 1.62079191810
On Account of :
Beng work shop grants received
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6 / 3 / 2024
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## FACULTY DEVELOPMENT PROGRAMME

## "ICT Tools \& Techniques for Teaching, Learning Process \& <br> Institutes"

( $13^{\text {th }}$ to $17^{\text {th }}$ January 2020)

Organized By

## E \& ICT Academies at MNIT Jaipur, IITDM Jabalpur, NIT Patna and IIT <br> Guwahati.


\&


Department of ECE


Stanley College of Engineering and Technology For Women Chapel Road, Hyderabad - 500001 (Affiliated to Osmania University, Approved by AICTE)

NBA Accrediated and NAAC "A" Grade

Venue: D Block Seminar Hall \& Labs II \& IV, Stanley College of Engineering \& Technology

STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN (AUTONOMOUS)
Chapel Road, Abids, Hyderabad, Telangana

# Coordinator Report 

On
"ICT Tools \& Techniques for Teaching, Learning Process \& Institutes"

## SUBMITTED

## BY

Prof. A. Gopala Sharma, HoD, ECE Lalitha Malladi, Asst Prof, ECE

## DEPARTMENT OF ERE

Stanley College of Engineering and Technology For Women Chapel Road, Hyderabad - 500001
(Affiliated to Osmania University, Approved by AICTE) NBA Accrediated and NAAC "A" Grade

2019-2020


STANLEY COLLEGE OF ENGINEERING AND
TECHNOLOGY FOR WOMEN (AUTONOMOUS)
Chapel Road, Abids, Hyderabad, Telangana

Total No. of Participants Applied/Registered: 60

## No. of Participants Shortlisted

(first come first basis till last day of registration): $\mathbf{5 1}$

This workshop was scheduled for 5 days from 13-01-2020 to 17-01-2020 at Stanley College of Engineering and Technology for Women, Abids, Hyderabad as a Winter FDP. This workshop was jointly organized by E \& ICT Academies at IIT Guwahati, MNTT Jaipur, ITDM Jabalpur and NIT Patna. Stanley College of Engineering and Technology for Women is a Remote Center registered under IITDM Jabalpur.

This programme was conducted by the faculty members from the above-mentioned higher education institutions. Academicians in the concerned field from ITT-Guwahati, MNIT Jaipur and NVIDIA were invited to deliver lectures in the programme.

As per the brochure the major course contents are:

- Introduction to MOOC, mooKIT demo \& Effective use of ICT.
- ERP, Adobe, Latex
- Google Suites, Visio
- Mendeley
- Resource Proposals \& Publishing


PRINCIPAL STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN (AUTONOMOUS) Chapel Road, Abids, Hyderabad, Telangana

## Session Schedule

## Day 1:

13-01-2020

## Session: I

The session started with an inauguration and introduction to all the Nodal Centers' coordinators and the Remote Centers participants. This was followed by an Inaugural Talk on Digital Content Creation by Professor Aparajitha Ojlia.

## Session: II

Professor T. V. Prabhakar spoke at length on Introduction to MOOC: Usage of MOOC for content management, class organization and assessment.

## Session: III

Session started with mooKIT Demonstation by Mr. Aditya Vadiamani and Dr. Neeta Singh, which was interesting.

## Session: IV

A lecture on Effective use of ICT for transforming pedagogy and empowering students by Prof. Svetlana of Ukraine.

## Day 2: <br> 14-01-2020

## Session: $1 \&$ II

The second day started with Prof. Lava Bhragava's Introduction to ERP, followed by Prof. Svetlana's 'Empowerment through Communication Skills' This was a continuation to Day 1-session IV.

## Session: III

Prof. Vijaya Laxmi introduced various concepts of Adobe; participants were able to communicate with the host and work on Adobe software. This was an interesting session as it contained working with pdf.

## Session: IV

Dr. M. Ravi Kumar delivered on CBT for letters, certificates and reports: Latex-1

## Session V:

The day concluded with Dr. Preeti Beat's lecture Empowerment through Communication Skills

## Session: I

The day started with Dr. Arka Prakash Majumdar's Google Site \& Google Suite demonstration. It included building course website, classroom content hosting, management and version control.

## Session: II

In the second session, Prof. Ranjan Gangopadhyay delivered a lecture on Articulating Research Proposals.

## Session: III \& IV

Dr. M. Amit Joshi presented Visio: Illustration tools and author aids followed by Dr. E. S. Pill i who presented on XFig and Bia: Illustration Tools \& Author Aids.
Session V:
Dr. Preethi Blat. Presented a lecture on Adopting online blended learning in teaching and learning process. This was followed by Quiz 1.

## Day 4:

16-01-2020

## Session: 1

Prof. Aparajitha Ojha presented a lecture on Development and Effectiveness of Digital Content Creation.

## Session: II

Dr. Vineet Sahula introduced Mendeley for bibliography management. Necessary software was made available to the participants.

## Session: III \& IV

Prof. Vijay Laxmi and Dr. Ami M. Joshi introduced Beamer and Latex during the afternoon session.

## Day 5:

17-01-2020

## Session: 1

The last day started with Dr. Satish Kumar's lecture on Understanding and Publishing in high quality journals

## Session: II

Dr. Santosh Vipparthi lectured on Digital Content: Instructional Material and Presentations.

## Session: III

Dr. Satyasai Jagannath Nanda demonstrated the use of Latex III - CBT for letters, certificates and reports

The last and final session had online quiz-2 and valedictory ceremony with vote of thanks, participant feedbacks, and ended with certificate distribution to all the participants.

In total, there were 38 hours of Lectures and 2 Quizes.

Photographs taken during the course of FDP

1. Participants registering and collecting kits

2. Participants during session



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3. Feedback by participants


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##  Ledger Account

$10 \mathrm{Apro2020} 1034 \mathrm{May}=2021$



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 The department offers free high-speed Internet facility through 10 Mbps wireless RF connectivity. The
department library provides useful resources to department library provides useful resources to
students. The department employs modern teaching aids and methodologies helping the students to keep
 infrastructure in tune with emerging technologies $8 \%$
future requirements. The department has been achieving consistently good results. Most of alumni found employment in highly reputed companies in
India and abroad and a significantly large number of students have gone for higher studies in India and

## E \& ICT Academy:

With the objectives of 'Digital India' and 'Make in India', Department of Electronics and Information Technology, Government of India has instituted four
Electronics and ICT Academies with one academy at Electronics and IITDM Jabalpur in partnership with IIITM Gwalior MANIT Bhopal, and IIT Indore. The Academy aims a running Training Programmes for faculty, students
and unemployed graduates in fundamental areas a and unemployed graduates in fundamental addition,
well as on the cutting edge technologies.In addition the Academy will conduct specialized/customized Training Programmes and Research Promotion
workshops for corporate sector and educational worsithons

About IIITDMJ:
IIITDM Jabalpur was established in 2005 with a focus
on education and research in IT enabled Design and
Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing Quality human resources for contribution in India's mission of inclusive and sustainable growth. Under
IIIT act, the institute has been declared as Institute of National Importance in January 2015.

About NLP:
Natural language processing (NLP) is a branch of Artificial Intelligence that helps computers to
interpret and manipulate human understand, interpret and manipulate human
language. NLP draws from many disciplines, including computer science and computational linguistics, in its pursui to fill the gap between human communication and computer understanding.

Technology

 Hyderabad. The college provides a serene and tranquil environment to the students, boosting their mental cut- throat global competition with a smile on the face and emerge victorious. SCETW has been established



 Telangana. It has been sanctioned five UG-courses Computer Engineering, Electronics

 inCSE, Embedded Systems $8 \%$ MBA.
 the world by creating knowledge, preparing students for lives of impact, and addressing critical societal knowledge. Stanley believes in providing a quality and holistic engineering education through a combination of experienced faculty, innovative programs and course work, and industry and institute collaboration in providing research and employment opportunities on campus. Stanley is driven by a briliant team of faculty who has an unparallel reputation for balancing
excellence in their fields with a dedication to their students.

## About IT:

The Department of Information Technology is NBA Currently have an intake of 120 . The department comprises of well qualified and senior faculty. The department regularly organizes seminars, workshops,
and guest lecturers for the students. Faculty development programs are organized for faculty to promote high standards in technical education. The department has made rapid strides in promoting excellence in engineering education by relentless pursuit of quality in teaching and training, keeping in mind the utility of students for future assignments in


Ministry of Electronics E Information Technology Govamment of Indla

STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN DEPARTMENT OF INFORMATION TECHNOLOGY (6-10 JANUARY 2020)
In association with
In association with
E\&ICT Academy, IITDM, JA

| Date/Time | $\begin{aligned} & 9: 00 \text { AM - } 9: 30 \\ & \text { AM } \end{aligned}$ | $\begin{aligned} & \text { 9:30AM-11:00 } \\ & \text { AM } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { 11:00AM } \\ -11: 15 \\ \text { AM } \\ \hline \end{array}$ | 11:10 AM-1:15PM | $\begin{aligned} & \text { 1:15 PM- } \\ & \text { 2:00 PM } \end{aligned}$ | 2:00 PM -3:00 PM | $\begin{aligned} & \text { 3:00 PM -6:00 } \\ & \text { PM } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/6/2020 | Inauguration and Introduction with all remote centers | Introduction to NLP |  | Vector Space \& Language Modeling |  | Text Classification | Lab 1 |
|  |  | Prof. P . <br> Bhattacharya |  | Prof. Atul Gupta |  | Dr. Namita Mittal |  |
| 1/7/2020 | Natural Language Syntax and Parsing and CYK Algorithm |  |  | Sentiment Analysis |  | Word Embedding | Lab 2 |
|  | Prof. Atul Gupta |  |  | Dr. Asif Ekbal |  | Dr. Namita Mittal |  |
| 1/8/2020 | GMM and | M Modelling |  | Summarization Systems |  | Sarcasm Detection | Lab 3 +Quiz 1 |
|  | Dr. Gayad | ar Pradhhan |  | Dr. Sriparna Saha |  | Dr. K. Satyababu |  |
| 1/9/2020 | Sequence to sequence tasks |  |  | Dialog Systems |  | Machine Translation | Lab 4 |
|  | Dr. Has | uzzaman |  | Dr. Asif Ekbal |  | Dr. Hasanuzzaman |  |
| 1/10/2020 | Chat-bot development |  |  | Attention Based Systems + Quiz 2 |  | Coreference Resolution | Lab 5 |
|  | Dr. Sriparna Saha |  |  | Dr. J. P. Singh |  | Dr. J. P. Singh |  |



## One Week Faculty Development Programme

 Jointly Organized by EalcT Academies at
## "Natural Language Processing" $6^{\text {th }}$ to $10^{\text {th }}$ January 2020 Organized by

 Department of Information Technology

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Duration \& Date of FDP:1-Week, $6^{\text {th }}-10^{\text {th }}$ January 2020
Venue : D-Block, Lab 3 \& 4 @Stanley.
Organizer : Department of Information Technology
Convenor : Dr.RamaKrishna, Head of R\&D Department
Coordinators: Dr.A.KanakaDurga,Head of IT Department
Mrs.Afreen Fatima Mohammed, Assistant Professor, IT Dept
Mr.T.Sandeep, Assistant Professor, IT Dept
Participants : Faculty from Academia, Research scholars and Industry Professionals

## No of Participants: 53

Theme of the FDP: Natural language processing (NLP) is a branch of Artificial Intelligence that helps computers to understand, interpret and manipulate human language. NLP draws from many disciplines, including computer science and computational linguistics, in its pursuit to fill the gap between human communication and computer understanding.

## Objectives:

To motivate participants to understand the steps involved in Natural Language Processing , language modeling, sequence tagging, modern tools for word and sentence embeddings and explore task oriented dialog systems such as Apple Siri, Amazon Alexa.

## Resource Persons:

Prospective External Experts: (i) Prof. Pushpak Bhattacharya, IITB (ii) Dr. AsifEkbal, IITP (iii) Dr. SriparnaSaha, IITP

Experts from host institutes: (i) Dr. Atul Gupta, IIITDMJ (ii) Dr. J. P. Singh, NITP (iii) Dr. Namita Mittal, MNITJ Facilities

## Contents of FDP:

## Course 5: Natural Language Processing




Module Details of Natural Language Processing

## SiNo. Module Name <br> 1. Intro and Text Classffication <br> 2. Language Modelling and Sequence Tagging

3. Vector Space Models of Semantics

4 Syntactic Processing

5 Sequence to Sequence Tasks

6 Dislog §pstems

7 Unification-based NLP and Semantics

## Topics

Processing Text using Perl, Use of Regular Expressions, Elements of Marphology CharacterN-gram Based Text Mining, Textclassfication

Texts as sequenices of words. language modeling and use for suggests in search, machine transiation, chat-bots, etc predict a sequence of tags for a sequence of words, part-of-speech tajes named entities or anyother tags, ProbabilisticModeling, N -grams Model, HMMModel, Sum-product Algoithms

Higher abstraction for texts: vectors representing meanings traditional models of distributional semantics, cover modern tools for word and sentence embeddings, suchaswordivec, Past Text, Star Space

Phrase Structure and Matural Language Syitax, Chart Parsing and CYK Algorithm, ProbabilistitContext-Free Grammars

A sequence to sequence task: machine translation, summarization, question answering ageneralencoder-decoder-atention architeture
Task-oriented dialoge syttems like Apple Siri or AmizizonAlexa, main building blocks of such systems namely Natural Language Understanding (NLU) and Dialog Mañager (DM)
First-order Predicate Logic and Resolution, Classical and Feature-structure Unifiction, Unifitation-based Grammars


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## Benefits:

1. Registration is Free (Rs. 1000 Refundable on successful completion of FDP)
2. Expert Lectures with Hands on Sessions
3. Certificate from IIITDM and E\&ICT
4. Free Kit \& Lunch, and Snacks
5. Transportation in College Buses
6. Free Membership in NLP Affinity Group.

## LIST OF REGISTERED PARTICIPANTS

| S.NO | Name (Prof./ Dr./ Mr.l Mrs) * |
| :---: | :---: |
| 1 | MOHAMMED ABDUL RAWOOF |
| 2 | C. Jyothi Sree |
| 3 | Salma Begum |
| 4 | Rayees Fatima |
| 5 | M.Purnachary |
| 6 | Palanati Durgaprasad |
| 7 | Dr.Konke.Gowreswararao |
| 8 | Dr. Kolleti Ravibabu |
| 9 | Neha unnisa |
| 10 | Akankshya Mishra |
| 11 | S.GANGA |
| 12 | JavedAkhtar Khan |
| 13 | K.Jaya Sudha |
| 14 | Neha Naznein |
| 15 | G.Purna Chandar Rao |
| 16 | Madhu Nakera Kaviti |
| 17 | P.Narayana |
| 18 | Keerthi Karadi |
| 19 | Saida D |
| 20 | Dr A Kanaka Durga |
| 21 | Mrs.G.Sreelatha |
| 22 | Anusha kondepati |
| 23 | Mrs.Afreen Fatima Mohammed |
| 24 | Ch M Shruthi |
| 25 | T Sandeep |
| 26 | kollimarla Nagamani |
| 27 | Mrs.T.C.Swetha Priya |
| 28 | Mrs.Y.V.Sreevani |
| 29 | Uzma Shireen |
| 30 | K.Swarnalatha |
| 31 | Amtul sana amreen |
| 32 | ASMA BEGUM |


| 33 | M SWAPNA |
| :--- | :--- |
| 34 | Dr.Pragathi |
| 35 | Mrs P.Prasanthi |
| 36 | Mrs. Sumayya Afreen |
| 37 | Ms. Shugufta Fatima |
| 38 | Mrs.K.Vaidehi |
| 39 | Dr.D.Shravani |
| 40 | Mrs. M.Sowmya |
| 41 | Mrs. Heerekar Meenal |
| 42 | T Monika Singh |
| 43 | Mrs B Revathi |
| 44 | Mrs.Sherlin Shobitha |
| 45 | R.Sirisha |
| 46 | Anjum Saba Afsheen |
| 47 | Dr. K.RamaKrishna |
| 48 | Dr.Srinivasu B |
| 49 | S.Priya Nandini |
| 50 | KOLUKULURI SRILATHA |
| 51 | B.Santhoshini |
| 52 | Dr.R.Manivannan |
| 53 | Dr.G.V.S Raju |

## DAY 1

The summary of the session and the learning's from the expert are as follows:

| Day Schedule |  |
| :--- | :--- |
| Timings | Topics |
| 9:00 AM - 9:30 AM | Inauguration and Introduction with all remote centers |
| 9:30AM - 11:00 AM | Introduction to NLP, Prof. P. Bhattacharya |
| 11:00AM -11:15 AM | Tea Break |
| 11:15 AM - 1:15PM | Vector Space \& Language Modeling, Prof. Atul Gupta |
| 1:15 PM2:00 PM | Lunch Break |
| 2:00 PM -3:00 PM | Text Classification, Dr. Namita Mittal |
| 3:00 PM -6:00 PM | Lab 1 |



Convenor Dr.Ramakrishna, Head of R\& D Department, addressing the gathering



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DAY 2:

| Day Schedule |  |  |
| :--- | :--- | :---: |
| Timings | Topics |  |
| 9:00 AM - 9:30 AM | Natural Language Syntax and Parsing and CYK Algorithm, <br> Prof. Atul Gupta |  |
| 9:30AM - 11:00 AM |  |  |
| 11:00AM -11:15 AM | Tea Break |  |
| 11:15 AM - 1:15PM | Sentiment Analysis, Dr. AsifEkbal |  |
| 1:15 PM2:00 PM | Lunch Break |  |
| 2:00 PM -3:00 PM | Word Embedding, Dr. Namita Metal |  |
| 3:00 PM -6:00 PM | Lab 2 |  |




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DAY 3:

| Day Schedule |  |
| :--- | :--- |
| Timings | Topics |
| 9:00 AM - 9:30 AM | GMM and HMM Modelling, Dr. GayadharPradhhan |
| 9:30AM - 11:00 AM |  |
| 11:00AM -11:15 AM | Tea Break |
| 11:15 AM - 1:15PM | Summarization Systems, Dr. SriparnaSaha |
| 1:15 PM2:00 PM | Lunch Break |
| 2:00 PM -3:00 PM | Sarcasm Detection, Dr. K. Satyababu |
| 3:00 PM -6:00 PM | Lab 3 + Quiz 1 |



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DAY4:

| Day Schedule |  |
| :--- | :--- |
| Timings | Topics |
| 9:00 AM - 9:30 AM | Sequence to sequence tasks, Dr. Hasanuzzaman |
| 9:30AM - 11:00 AM |  |
| 11:00AM -11:15 AM | Tea Break |
| 11:15 AM - 1:15PM | Dialog Systems, Dr. AsifEkbal |
| 1:15 PM2:00 PM | Lunch Break |
| 2:00 PM -3:00 PM | Machine Translation, Dr. Hasanuzzaman |
| 3:00 PM -6:00 PM | Lab 4 |





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DAY 5:

| Day Schedule |  |
| :--- | :--- |
| Timings | Topics |
| 9:00 AM - 9:30 AM | Chat-bot development, Dr. SriparnaSaha |
| 9:30AM - 11:00 AM |  |
| 11:00AM -11:15 AM | Tea Break |
| 11:15 AM - 1:15PM | Attention Based Systems, Dr. J. P. Singh + Quiz 2 |
| 1:15 PM2:00 PM | Lunch Break |
| 2:00 PM -3:00 PM | Coreference Resolution, Dr. J. P. Singh |
| 3:00 PM -6:00 PM | Lab 5+ Valedictory Session |




PRINCIPAL
STANLEY COLLEGE OF ENGINEERING AND PECHNOLOGYFORWOMEN (AUTONOMOUS) Chapel Road, Abids, Hyderabad, Telangana

## VALDECITORY SESSION

## PRINCIPAL ADDRESSING THE PARTICIPANTS



## FEEDBACK GIVEN BY THEPARTICIPANTS



PRINCIPAL
SIANLEY COLLEOE OF ENGINEERING AND




PRINCIPAL
Stanley college of engineering and IECHNOLOGY FOR WOMEN (AUTONOMOLST: Ghapel Ruad, Abids, Hyderabad, Telangana





PRINCIPAL
STANLEY COLEGE OF ENGINERONONOUS)


## All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, VasantKuaj, New Delhi-110070 Websife: www, aicte-india.org MODROB ~Sanction Letter
:No. $9.162 /$ IDC/MODROB/Policy-1/2019-20
To
The Drawing and Disbursing Officer.
Dit hadia Council for Teehnical
Educaton, Nelson Mandela Marg
Vasant Kuni, New Delhi - 110070
ab: Release of a sum of Rs 1061835 (Rupees Ten Lakh SixtyOne Thousand Eight Hundred ThirtyFive Only) boing the $1^{\text {st }}$ installment Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROB) for the year 2019-20 payable during the current financial year 2020-21-reg.

With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for ment of Rs. $1327294 /$ (Rupees Thirteen Lakh TwentySeven Thousand Two Hundred NinetyFour Only) as triond Grant-in-Aid under the Modernization and Removal of Obsolescence (MODROB) scheme as per delails mo besas:

| Name and addess of the Benericiary institution: | Director/Principal/Registrar, <br> STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN, \# 5-9-78 TO 82, 3-1-80 \& 5-9-81. CHAPEL KOAD, ABIDS, HYDERABAD-500001 <br> fot and Smart Sensors Lab |  |  |
| :---: | :---: | :---: | :---: |
| Tine of project |  |  |  |
| Name of Coordinator: | Mr GOP.NA ATCHUTANVA |  |  |
| Duation of the project: | 2 years |  |  |
| Toxal Grant-in-aid Sunctiondi: | Total: <br> Rs. $1327294 /-$ | Non-Recurring (85\%): <br> RS.li28199:- | Recurring (15\%): <br> Rs. $199094 / \mathrm{M}$ |
| Ammunt to be relcased during the cer 2020-21: | $\begin{aligned} & 1 \text { Instalment } \\ & \text { Rs. } 1061835 \text { - } \end{aligned}$ | Non-Recurring ( $85 \%$ ): $\text { Rs. } 902559 \%$ | $\begin{aligned} & \text { Recuring (15\%): } \\ & \text { Rs.159275/- } \end{aligned}$ |
| Sanctioned grant-in-aid is debarable to: | Major Head 601.18(a) Gen. (Plan Head) |  |  |

The amoant of the Grant shall be drawn by the Drawing and Disbursing Officer, All india Council for Technicat Esuation on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principat/ Registrar of the Institute through RTGSPFMS.

This Oran-in-Aid is being released in conformity twith the terms \& conditions as well as norms of the scheme as alrees communicated, and also being communicated in this letter.

## imstructionstouidelines to be followed by Universithlnstitution

## Relase of funds

a The Principal/ Director of the institute and the Coordnator of the project are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

| Institute PAN No. | Bank Name | Bank <br> Branch Name | Bank Branch Address | Accou nt Holder Name | Account Type | Account <br> Number | $\begin{aligned} & \text { IFSC } \\ & \text { Code } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { AAATT57 } \\ & 54 \mathrm{E} \end{aligned}$ | STATE BANK OF INDIA | $\underset{Y}{\text { GUNFOUNDR }}$ | GUNFOUNDRY, ABIDS |  |  | 62079191810 |  |
|  |  |  |  | STANLEY | Current Accoum |  | $\begin{gathered} \text { SBING020 } \\ 066 \end{gathered}$ |
|  |  |  |  |  |  |  |  |
|  |  |  |  | ENGINEER ING\& |  |  |  |

b. The sanction is issued in exercise of the in the guidelines of the scheme.
c. $100 \%$ grant of the sanctioned amount is Certificate (UC) and other requisite documents are to be submited with/Govt. Aided institutions. Utilization project.
d. To self-financed $/$ Pvt. Institutions $80 \%$ of by $20 \%$ as reimbursement after receipt of UC and ooned amount is being released as first installment followed of MODROB Scheme.

## II. Maintenance of accounts

a. The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F.No.9-162/IDC/MODROB/Policy-1/2019-20 dated 20.07.2020 issued by this office. All correspondences related will not be entertained.
b. Funds covered by this grant shall be kept separately and would not be mixed
the amount of interest accrued on the grant AlCTE.
c. The University/College/lnstitute shall maintain
shall be utilized only on approved items of expenditure (list enclosed)
d. The Council or its nominee shall have the righ
utilized for the purpose for it was sanctioned.
e. The date of release of the grant by AICTE

Principal / Director / Registrar shall intimate shall be taken as the date of commencement of the project. The prior to the issuance of the approval letter will about the receipt of the grant to AICTE. Any expenditure incurred University do not take the project work within one month of to be adjusted in the grant and if the Institution /
lapse. lapse.
f. After receipt of the grant from AICTE, the institute shall send a confir receipt of grant that the sanctioned project has been started/is in progress.
iII. Refund of grant by way of a dores.
a. If the collegefinstitute does no for the academic year 2020-21, the fund released should be immediately refunded to AICTE
accrued thereon. accrued thereon.
interest accrued thereon, has to be necessarily returned to AICTE.
c. In any case, if the institute is required to refund the grated

Refund of grant by way of a demand draft in favour of Member Secretary, AICTE
If the college/institute does not have the Letter of Approval (LOA) or

If project is not started within six months of the is
amount will be refunded to AICTE.
d. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
e. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

## IV. Submission of documents by college/institution after completion of Project/Subsequent years.

The following mandatory relevant documents are required to be submitted by the coltege/institution within one manth of the completion of the project: -
a. Feedback form in the prescribed proforma.
b. The Annual Progress Report (APR) in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
c. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
d. In case of self-financing/private institutions, Statement of actual Expenditure \& Utilization Certificate are required to be audited \& signed by a Charted Accountant (with membership no., full address \& stamp). Photocopies of formats are enclosed.
e. Program Evaluation Committee (PEC) is required to be constituted at Institutional level. The constitution of the PEC shall be asunder:
(i) Principal/Director/Registrar of the Institution(Chairperson)
(ii) Coordinator of the project (Member Secretary),
(iii) Two HODs and one subject expert(Members).

The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.
f. Project completion report project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
g. Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
h. Photographs of equipment's purchased.
i. The balance amount of the grant will be reimbursed to the universityfinstitution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.
V. General instructions
a. 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 may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its released.
b. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AFCTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File
F.No.9-162/IDC/MODROB/Policy-1/2019-20


No.9-1/RIFD/MOD/Policy-1/2019-20 in your future correspondence.
c. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the fnstitute in the prescribed form i.e,GFR-19.
d. The College / Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AJCTE project file number.
. The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution ccase to function, such assets shall revert to the AlCTE.
f. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Govemment of India from time to time. GOI GFR rules (@https://doe.gov.in/order-circular/general-financiairules 2017-0) should be followed during utilization of grant.

\section*{List of Equipment's approved: <br> | Relay and driver |
| :--- |
| Ultrasonic sensors |
| Models Preparation |
| Bread boards |
| 9 V battery |
| Cloud access |
| GSM + GPS Breakout module Adafruit Fona 808 Mini Celitular GSM + GPS Breakout Board To track |
| your ocation all over the globe and sending the messages during emergency |
| Wifi Shield for Arduino |
| Temperature sensor |
| Air Quality SENSOR |
| Gas sensor |
| Gas Sensor |
| Humidity sensor |
| $16 x 2$ LCD |
| Accelerometer |
| Enclosures |
| Solar Panel |
| Spectrum Analyser |
| Network simulator software |
| Arduino MEGHA boards with data cable. |
| Logic Level Convertor 8-channel |
| RF Transceiver (LoRa) Mikroe |}


F.No.9-162/IDC/MODROB/Policy-1/2019-20


STANLEY COLLEGE OF ENGINEERING AND

Copy forwarded for information and necessary action to:

1. Name and Address of the Coordinator

Mr. GOPALA ATCHUTANNA
STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN,
*5-9-78 TO 82, B-1-80 \& 5-9-81, CHAPEL ROAD, ABIDS, HYDERABAD -500001 500001
2. The Registrar / Director / Principal,

Name and Address of the Coordinator
Mr. GOPALA ATCHUTANNA
STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN
\# 5-9-78 TO 82, B-1-80 \& 5-9-81, CHAPEL ROAD. ABIDS, HYDERABAD
3. Guard File


Advisor - II (IDC)

# Al India Council for Technical Education <br> (A Statutory body under Ministry of IRD, Govt. of India) <br> Nelson Mandela Marg, VasamKunj, New Delhi-110070 Website: wwwate-india.org <br> MODROB - Sanction Letter 

## F. No. $9-68 / \mathrm{DC} / \mathrm{MODROB} /$ Policy -1/2019-20

Date: 20.07.2020

To
The Drawing and Disbursing Officer, All India Council for Technical Education. Nelson Mandela Marg,
Vacant Kunj. New Delhi - 110070
Sub: Release of a sum of Rs.898196/- (Rupees Eight Lakh NinetyEight Thousand One Hundred NinetySix Only) being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence (MODROB) for the year 2019-20 payable during the current financial year 2020-21- reg.

Sir.
With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs. $1122745 /$ - (Rupees Eleven Lakh TwentyTwo Thousand Seven Hundred FourtyFive Only) as Grant-inAid under the Modernization and Removal of Obsolescence (MODROB) scheme, as per details given below:

*. 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 account of Director/Principall Registrar of the institute through RTGS/PFMS.
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.

## The instructions/guidelines to be followed by University/fistitution

1. Release of funds
a The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the undermentioned bank account RTGS details submitted by them along with the Proposal, in which the grant is being released:


| Institute PanNa. | Bank Name | Bank <br> Branch Name | Bank Branch Address | Accou nt Hulder Name | Account Type | Account Number | 1 FSC Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { AA } A T I S 7 \\ S 4 E \end{gathered}$ | TATEBANK OF INDIA | GUNFYUNDR | GUNFOUNDRY. ABIDS | PRINCIPA L. STANLEY COLLEGE $\mathrm{OF}^{-}$ ENCREER INCE TECINOL OGYFOR WOMEN | Curent <br> Aeceunt | 62079191810 | $\begin{gathered} \text { SBIN0020 } \\ 066 \end{gathered}$ |

In case of any omission the same should be reported to AlCTE immedrately.
b The sanction is issued in exercise of the powers delegated to the council and other tems \& conditions laid down in the guidelines of the scheme.
c. $100 \%$ grant of the sanctioned amount is being cleased to Govermmen/Gov. Aded institutions. Utilization Certicate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
d. To seff-financedfyt. Institutions $80 \%$ of the sanctioned amount is being released as first installment followed by $20 \%$ as rembursemem ather recept of UC and other requisite documents as speified in terms \& Conditions of MODROL Scheme.

## II. "Maintenance of accounts

a The Instilute shall strichly folow the provisions laid down in the scheme document and sametion order No. ENo.9-68IDC/MODROB/Policy-1/2019-20 dated 20.07 .2020 issued by this offee. All correspondences related to the project must contain this number along with year of sanction of the project, failing which correspondence will not be entertained.
b Funds covered by this grant shall be kept separately and would not be miked up whith oher funds, so as to hnow the amount of interest accrued on the grant AICTE.
o The University/Coliege/nstituk shall maimain proper accouns of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
\& The Couteil or its nominee shall have the right to check verify the accoun to salisfy that the fund has been utilized for the purpose for it was sanctioned.
\& The date of release of the grant by AICTE shall be taken as the date of commencenten of the profect. The Principal / Director / Registrar shal! intimate about the receipt of the grant o AIC TE. Any espenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the lostitution/ University do not take the project work within one month of the receipt of the grant, the approval shall ipso bet lapsc.
if After rectipt of the gram from ACTE, the Institute shatl send a conlimation to AICTE within 2 months of receipt of gran that the sanctioned project has been stanted/is in progress.
ill. Refund of gant by way of a demand draftin favour of Member Secretary, AlCTE, New Delhi
a If the college/nstitute does not have the Letter of Approval (1.OA) or Extension of Approval issued by ACl: for the acadomic year 2020-21, the fund released should be immedialely refunded to AICTE with interest acmed thereon.
b. If prefeet is not stancd within six month of the issuance of this Offer letter, the released amount, along with interst accrued theroon, has to be necessarily returned to ACTE.
$c$ In any case. if the institute is requited to refund the grant or interest accued thereon on balane amome, the
amount will be retunded to AICTE.
d It mas be ensured that the project is completed withity the stipulated time. It the project is wot completed in time, no further excasion will be granted in any case and institute has to refund the entre anount to AlC IE.
e As AECTE needs adequate time for depositing the Demand Draft in the bank, the same be immediaty dispatched to avod any lapse of the validity period.

## IV. Submission of documents by collegeinstitution after completion of Project/Subsequent years.

The following mandatory relevant docunents are requited to be submited by the collegednstitution within one monh of the completion of the project: -
a Feedfach form in the prescribed proforma.
b. The Annual Progress Report (APR) in the proscribed format atong with the original Statemem of actual Expenditure in the preseribed proforna duly signed by the llead of the institution and shall be subnitted io AlC IE not later than one month after completion.

- The Itilization Certificate (UC) supponed by Audited Statement of Expentiture to the effect that the gran has been utilized for the purpose for which it has been sanctoned shall be fumished to the AICTE immediately attor completion of the profect. It should comain the head-wise break up of expenditure made from the gran-in-aid provided by the Comel. Audited Starement of Expenditure indicatitg expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
d In case of self-inancingprivate institutions, Statement of actual Expendure \& Utiozation Certifate are required to be aludted \& signed by a Chatted Accountant (with membershp no., full address \& stamp. Pholocopics of formats are chelosed
e Program Fvaluation Committec (PEC) is required to be constituted at hatithonal level. The contrituon or the plec shall be asmoder:
(i) Princiga/DirectorRegistar of the Instutiont Chairperson)
(ii) Coordintor of the project (Member Secretary).
(iii) Two llODs and ore subject expert(Members).

The members ot the said PLC shall not be belon the rank of Associate Professor. The minutes ot the meanges are to be submited to the Counci at ond of the project along wh thother mandatory documents.
i Project complaion teport proect indicating the activities undertaking, number of students benefited, laboratory works photographs of students sogether with their views is to be submited.
9 Atested photocopies of supporting vouchers/bils of expenditure incurred for the completion of Project.
n Photographs of equipment's purchased.
i The balance amonn of the grant will be reimbursed to the miversity/institution only on submission of the above documents. On receipr of these documents. the total amount of balance of financial assistance, admissible as per the noms, shall be woked out and grant-in-aid shall be released, as second installment, it favour of the benelicans institulion.

## v. General instructions

a The anomin of interest acerued on the grant shoud be treated as fat of the gran to be wilized for that paticular project. However. the interest anomm acerted along with grant disbursed should not exeed the wal gram santhone for the project. The frsthute receiving the grant sloutd reflect the same in the audted stakement of aceonms/ witization cervitate and may either refond the interest amoum to AlCTE or ALCT: shall adise the stme in the next matalmen of gran before its released.
b Ans umavidable circomstamial change in the project with respect to name of Project Coodinator for the MODROB proice would mandatorly require pror approval of the Comeil. All such request should be addresed to NCIE, in advance, recording the specific reasens for proposed changes. tailing which the offer for the arm atreaty issued would be treated as atomatically withdrawn and the financial assistance released in favour of the bencilciary institution shall be refunded immediately to the Council. Kindy mention the File

No. 9-1/R1FDMOD/Pulicy-1/2019.20 in your future correspondence.
c The grantee shall maintain an united recon d of assets acquired wholly or substantially out of the Gran-in-Aid and a register of assets shall be maintained by the Instute in the prescribed form ie. GFR-19.

- The College / Institute receiving grant under MODROB is expected to put up a plate at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
c. The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than hose for whet the Grant was given witt proper sanction of the AICTE and should at any time the insthmion cease to function such assets shall revert to the AICTE.
f The grantee institution shall observe all financial norms and guidelines as prescribed by the ALCTV Government of india from time to time. GOI GFR rules (ahtps://doegovinfordereetrethatgeneral-financial rules? 017 (0) should be followed during utization of grant.

List of Equipment's approved:

## Name of Equipment:

## NETGEAR ReadyNAS 202

## Software

Desktop Computer Systems


Copy forwarded for intimation and necessary action to:

1. Name and Address of the Coordinator

Dr. RAMANA WURTHY BHAMDDPATI
SHAME COLE GE OF ENGINEERING\& TECHNOLOGY FOR WOMEN,
it 5-9-78 1082. 13-1-80 \& 5-4-81. CHAPEL ROAD, ABIDS, HYDERABAD -500001500001
2. The Register / Director / Principal.

Dr. RAMANA MHETHY BHABHDMATI
STANDS COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN

3. Guard Fife


Advisor - 11 (DC)

All India Council for Technical Iducation
(A Statutory body under Ministry of IRD, Govt. of India)
Nelson Mandela Marg,Vasant Kuni, Now Dethi-110070 Website: www.aicte indie.org


## GOC - Sanction Letter for E-Conference

To
The Director/Principal/Registrar
Stanley College of Engineering \& Technology
for Women, \# 5-9-78 to 82, B-1-80 \& 5-9-81,
Chapel Road, Abids, Hyderabad, Telangana-500001
Subject: To organize Conference in online mode ie E-Conference under the scheme Grant for Organizing Conference (GOC)-reg.

Sir/Madam,
With reference to the proposal submitted by your institute, this is to convey that an amount of Rs. 1,63,333/ (Rupees One lakh sixty three thousand three hundred thirty three onty) was sanctioned and released to your institute in the month of March-2020 for organizing Conference under the scheme Grant for Organizing Conference (GOC), as per details given below:

| 1. | Name and address of the Beneficiary Institution: | Director/Principal/Registrar <br> Stanley College of Engineering \& Technology for Women, \# 5-9-78 to 82, B-1-80 \& 5-9-81, Chapel Road, Abids, Hyderabad, Telangana500001 |
| :---: | :---: | :---: |
| 2. | Permanent ID oflmstitute: | 1-6531631 |
| 3. | Title of Conference: | National Conference for Women on Innovations in Science, Engineering and Technology |
| 1. | Name of Coordinator: | Dr. Vaidehik |

The grant was released to the institute's account as per details given in table below:

| Inslit wte PAN No. | Bank <br> Name | Bank Branch Name | Bank Praneh Address | Account Holder Name | Account Type | Accomint Number | IFSC Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AAAT | STATE | GUNFOU | GUNFOUND | PRINCIPAL/DIRECTOR, | Current | 6207919 | SBIN0020 |
| T575 | BANK OF | NDRY | RY, ABIDS | Stanley Collalae of | Account | 1810 | 066 |
| 4 E | INDIA |  |  | ENGINEERING \& TECHNOLOGY FOR WOMEN |  |  |  |

The grant was released to organize the conference in physical mode, but due to outbreak of COVID19 , the Council has decided to give option to the institutions to organke the conference in online mode only i.e. E-Conference with additional terms and conditions.

## Note:

1. If your institute has organized the conference in the stipulated time, then you are intimated to submit the requisite documents along with balance amount, if any.
2. If your institute has not organized the conference after receipt of grant, then you are allowed to organize the conference in online mode i.e. E Conference within 6 months of receipt of this letter.
3. If your institute does not want to organize the E-conference, then you are required to refund the complete grant along with the interest accrued thereon.
4. The grant from AICTE will be Rs. 50,000 or $1 / 3$ rt of the total expenditure incurred for organaing the E-Conference, whichever is lesser. Rest amount is required to be refunded to AICTE.


STANLEY COLLEGE OF ENGINEERING AND

## The instructions/guidelines to be followed by College/Institution

## I. Jimit of Funding

a. The grant from AICTE will be Rs. 50,000 or $1 / 3$ rd of the total expenditure incurred for organizing the E-Conference, whichever is lesser.
b. The balance amount should be immediately refunded to AICTE with interest accrued thereon.

There may be the following expenditure heads under F-Conference:
a. Certificate/Brochure and other documents designing.
b. Conference website designing \& updating.
c. Honorarium to Experts/Resource Persons.
d. Publication of proceedings.
e. Miscellaneous.

## II. Submission of documents by college/institution to AICTE on receipt of this letter/grant

a. The Acceptance letter with dates for Organizing IE-Conference should reach this office within 15 days from the date of receipt of this Sanction Letter duly signed and sealed by Coordinator and Head of the institution along with permission/clearance of Govt. of India for organizing E-Conference.

## III. Maintenance of accounts

a. The Institute shall strictly follow the provisions laid down in this Letter No. F. No. 67-5/ IDC/GOC/Policy-5/2019-20 dated: 24-06-2020 issued by this office. All correspondence related to the conference must contain this number along with year of sanction of the conference failing which correspondence will not be entertained.
b. 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.
c. The University/College/Institute shall maintain proper accounts of the expenditure out of the grant.
d. The Council or its nominee shall have the right to check/verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
IV. Refund of grant to AICTE (by way of a demand draft in favour of Member Secretary, AICTE, New Delhi)
a. In case the event is cancelled or institute does not want to organize the E-Conference, the fund released should be immediately refunded to AICTE with interest accrued thereon.
b. The grant shall be refunded to AICTE if the Letter of Approval ( B,OA) or Extension of Approval is not issued by AICTE to the institute for the academic year 2019-20.
c. The proposed/approved li-Conference shall be conducted within 6 months from the date of receipt of this letter. If E-conference is not conducted within stipulated time period, the released amount, along with interest accrued thereon, has to be necessarily returned to AlCTE within one month, failing which penalty @ $18 \%$ will be levied.
d. Interest accrued on the grant released, shall be refunded to AICTE.
c. No payment is permissible against the conference already conducted before the receipt of grant. Institutions are liable to refund the grant if received after the conduct of conference and have no plan of conducting the Fi-conference ahead.
f. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.
V. Submission of documents by college/institution to AICTI: after conduct of conference

The following documents must be submitted to AICTE within a period of one month, from the date of conduct of Conference:
a. Feedback form in the prescribed proforma.
b. Original Statement of actual Expenditure \& Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of selffinancing/private institutions, Statement of actual Expenditure \& Utilization Certificate are required to be audited \& signed by a Charted Accountant (with membership no., full address \& stamp). Photocopies of formats are enclosed.
c. Copy of the proceedings/Project completion report.
d. Attested photocopies of supporting vouchers/bills of expenditure incurred for Organizing Conference.
e. Soft copy of photographs of conference.
f. One video of 1-minute duration mentioning: (i). Introduction of the Coordinator mentioning the name and state of institute. (ii). Conference details and achievements attained through Conference (iii). How the Conference was beneficial to students, faculty and institute? (iv). Thanking message for AICTE support.

## VI. General instructions

a. Any Change in the programme for holding Conference, change of Coordinator name, Venue and Date should be effected with prior approval of the Council, failing which the sanction for the grant already issued would be treated as automatically withdrawn.
b. The assets acquired wholly or substantially of the All India Council for Technical Education's grants shall not be disposed or encumbered or utilized for the purposes other than those for which it was given without proper sanction of the Council and should, at any time the Institution ceased to function, such assets shall revert to the All India Council for Technical Education.
c. The beneficiary institute will make best efforts to promote the scheme by mentioning the sponsorship/ support from AICTE, carrying the Logo of AICTE in conference and other means.
d. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@https://doe.gov.in/order-circular/general-financial-rules2017-0) should be followed during utilization of grant.


Copy forwarded for information and necessary action to:

## 1. Name and Address of the Coordinator Dr. Vaidehi K,

Stanley College of Engineering \& Technology for
Women, \# 5-9-78 to 82, B-1-80 \& 5-9-81, Chapel Road,
Abids, Hyderabad, Telangana-500001

## 2. Guard File

## STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN <br> (AUTONOMOUS)

(Approved by AICTE \& Affiliated to Osmanla University, Accredited by NBA \& NAAC 'A' Grade)

## Acceptance Letter

Date: 0.4-06-2022

## To,

The Adviser
Institutional Development Cell,
All India Council for Technical,
Education, Nelson Mandela Marg,
VasantKunj, NewDelhi-1 10070

Subject; Submission of Acceptance of Offer and Terms $*$ Conditions for project sanctioned under SPICES scheme.

Sir,
With reference to your Offer Letter No.FNo10-174/AICTE/DT/SPICES/2021-22: (Application No .1-1 1065729852 ) dated $85-05-2029$. It is to inform that, we accept the offer of SPICE project given for the development of proposed student clubs. Also, we hereby commit for contribution of \$s. $1,00,000$ as proposed in our application.

We accept Terms \& Conditions mentioned in the Offer Letter


Dr.Guntha Karthik Coordinator
Associate Professor Dept. of E, C.E. Stumpy College al Erciractin? and techatopy forkomenderm




Ilea of Institute
 STALE COLLEGE OF ENGRENTMOMO


Offer for the project sanctioned under SPICES scheme against the Application No:111068723852 -reg

From: spicesidc@aicte-india.org
Fo: gunthakarthik@rocketmail.com; gurralamalli49@gmail.com
Date: Sunday, May 29, 2022 at 12:17 AM GMT +5:30

Greetings
It is informed that the proposal submitted by your instiute STANLEY COLLEGE OF ENGINEERING \& TECHNOLOGY FOR WOMEN under Scheme for Promoting Interests, Creativity \& Ethics among Students (SPICES) has been sanctioned by the Council and Offer Letter regarding the same is available online on the SPICES Review portal. To contirm the sanction of project it is mandatory to upload the Acceptance Letter (available on SPICES Review portal) within 7 days and also send us a hard copy of Acceptance Letter on the below address.

## Address:

The Adviser
Institutional Development Cell,
All India Council for Technical Education,
Nelson Mandela Marg, Vasant Kunj, New Dethi-110070


PRINC'ÍPAL

## All India Council for Technical Education <br> (A Statutory body under Ministry of HRD, Gove. of India) <br> Neison Mandela Marg, Vasant Kunj, Now Dellin. <br> 110070 Webs ite: ww. alcte-faliatord <br> AICTE Training and Learning (ATAL) Academy, (Online FDP)


F. NO. O1 JAICTEIATAL-HOI2029.31 $123(21)$

Date: 161612021
To
The Principal / Director.
Stanley College of Engineering and Technology for Women
H. No. 5-78 to 82, B-1-80 \& 5-9-81, Chapel Road, Fateh Maidan, Abids, Hyderabad, Telangana

Coordinator Mr./Ms. Guntha Karthik
Sub: Release of a sum of Rs 93,000 /-for AICTE Training and Learning (ATAL)
Academy Online FDP.
Sir,

This is to convey the sanction of the Council for payment of Rs. $93,000 \mathrm{f}$ (Rupees Ninety - Three Thousand Only) for conduct of online AICTE Training And Learning (ATAL) Academy FDP Advances in Electronics and Communication Engineoring for Industrial Applications (from $7 / 26 / 2021$ to 7/30/2021) to Stanley College of Engineering and Technology for Women,H. No. 5-78 to 82, B-1-80 \& 5-9-81,Chapel Road, Fateh Maidan, Abids, Hyderabad, Telanganaunder AICTE Training And Learning (ATAL) Academy.

This fund 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.

The instructions/guicielines to be followed by University/nstitution
I. Release of funds and maintenance of accounts
a. The University/Collegellnstitute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
b. The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

1 Honorarium to Coordinator Rs $\mathbf{1 0 , 0 0 0 / -}$
2 Honorarium for computer operator Rs 2,000/-
3 Honorarium for experts (Rs.5000/session for 14 sessions) Rs 70,000/-
4 Provision for payment to Lab Attendant Rs 1,000/-
5 Miscellaneous charges (petty expenses not covered above) Rs 10,000/-
TOTAL $=$ Rs. $93,000 /-$
Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.
c. The grant is subject to the adjustment on the basis of Utilization Cerificate in the prescribed proforma to be submitted by the University/College/listitution. Further, the accounts of the institute will be open for test check by the Council or Controller \& Auditor General of India or any other officer designated by them.

## H. Dishursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/lnstitute after submission of mandate

## ili. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.

- The certificates shall be issued to those participants who have been approved by coordinator, attended the program with minimum $80 \%$ of attendance and scored minimum $60 \%$ marks in the test.


## IV. Submission of documents by universitylinstitution

a. The following mandatory relevant documents are required to be submited by the university/nstitution within one month of the completion of the program: -
(i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
(ii) A program completion report along wilh photographs, videos, media report is to send after the completion of workshop along with the fist of participants and Utilization Certificate, Expendifure Statement etc. within one month of conduct of AICTE Training and Leaining (ATAL) Academy programme.
b. The amount of the grant shall be adjusted on submission of utilization certificate \& detailed expenditure statement by UniversityInstitution. 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 to adjust.

## V. General Instructions

a. Maximum 200 participants may be allowed to attend online FDP. Coordinators are free to admit a smaller number of participants cepending on the feasibility.
b. A test has to be conducted (may be online) on the last day and those who score more than $60 \%$ will be termed as successful candidates. Those who have attondance $80 \%$ or more and also score more than $60 \%$ in the test will be issted a digital certificate.
c. These online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. You are also requested to upload recording on youtube of google drive share recording link of sessions with AICTE.
d. Eligibility for Particpants:
a. The facully members of the AICTE approved institutions, Research scholars, PG Scholars, participants ifom Govermment, Industry (Bureaucrats/Technicians/Participants from Industry etc.)/School Teachers and staff of hest institutions.
b. Not more than $30 \%$ from Host Institution
e. If programme is not conducted in the financial year year 2021 only, the released amount has to be returned back to AICTE.
f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the aclivities should not be compromised.
9. FDP title name, name of coordinator, institute name is not allowed to change without permission however schedule dates mat be changed with information ATAL Academy cell and Regional Office.

This Sanction Order may be treated as Offer Letter for all purposes.

Copy forwarded for information and necessary action to: -

1. Coordinator ATAL. Programme

2. ATAL Academy Cell AICTE HQ
3. Guard File

## AICTE Training And Learning (ATAL) Aeadeny Programme

## STATEMENT OF EXPENDITURE

ACTE File No.(Sanction letter file No.) :F.No.01/ACTE/ATAL-HO/2020-21.123(21) dated 16 -6-2021.
Title of the Programme: Advances in Eiectronics and Communication Engineering for Industrol Applianons Application No. 1614874822

Name of the Coordinator: Dr Gunlla Kinthik


## Accounts Dfficer Slanley College of Eng. its.

(3) Signature (with seal) Abthe/fimance officery, T.S. Auditor/Accounts Officer
(If it is Govt./Govt. Aided Institute)
(d) Signature of Chartered Accountant:

Name of Chartered Accountant:
Membership No:
Rubberstamp:
Full Aduress:
Date:


Note:-If it is more than one page, each page must be signed in all annexure

# STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY <br> FOR WOMEN 

(Pryate Un-aded Non-minorlily Aulonomous Inst wition (Accredted by NAAC with A Gtade, Accredted by NBA) Affliated to Osmana University and Approved by AICTE<br>ABIDS HYDERABAD-500001

## UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR-2020-21

AICTE Training and Learning (ATAL) Academy

ACTE File No.
Name of Co-ordinator
Application No.
:FNo.01/ALCTE/K1AL-HO/2020-21 123(21) dated 16-6-2021
: Dr Guntha Karthik
: 1614874822

Title of the ATAL Programme: Advances in Electronicsand Communication Engineering for Industrial Applications

| $\begin{aligned} & \mathrm{SI} . \\ & \text { No. } \end{aligned}$ | AICTE Sanction Orderlletter No. \& Date under which grant was sanctioned | Amount (Rs.) |  |
| :---: | :---: | :---: | :---: |
| 1. | ENo.01/AICTE/ATAL-HQ/202021.123(22) dated 16-6-2021 | 93000 - | Certified that out of the grantin-aid of Rs Ninety Three thousand sanctioned by the AICTE during the financial year $2020-21$ in favour of Stanley Coltege of Engincering and Technology for Women as per letter mentioned in the margin a sum of Rs. 93000 -has been utilized for the purpose for which it was sanctioned and the balance of Rs. NIL remained 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 duiy 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: -

Audited Anmual Accounts of the InstituteReceipt and Payment account Periodical Progress Reports.

Coording
Stanley College of Engineering and Technology for Women, Abids, Hyderabad, Telangana.
Date:
2. Signature of Chartered Accountant:

Name of Chartered Accountant:
Membership No:
Rubberstamp:
Full Address:
Date:


4 Signature of the Finance Officer/Accounts Officer: Name of the Finance Officer/Accounts Officer* (If it is Govt. /Govt Alded Anstigut

Wanley College of Enog. \& Tech Officer
(Autonomous)
NA AC'A'Grade $\&$ NB A Accredited.
Presents ATAL sponsored


## * Advances in Electronics and Communication Engineering for Industrial Applications"

Date: $26^{\text {th }}$ to $30^{\text {th }}$ July 2021
Account Details of the Resourse Persons


## REPORT

## ON

# "Advances in Electronics and Communication Engineering for Industrial Applications" 

$$
26^{\text {th }} \text { to } 30^{\text {st July } 2021}
$$

ATAL sponsored
Faculty Development Programme


## Organized by

## Department of Electronics and Communication Engineering <br> 

Stanley College of Engineering and Technology For Women Chapel Road, Hyderabad - 500001 (Autonomous) (Accredited by NBA, NACC 'A' Grade)

# "Advances in Electronics and Communication Engineering for Industrial Applications" 

REPORT

SUBMITTED

## BY

Dr. Guntha Karthik, Associate Professor

## C.V.Keerthi Lathe, Assistant Professor





# DEPARTMENT OF ELECTRONICS AND COMMUNICATION <br> ENGINEERING <br> Stanley College of Engineering and Technology For Women <br> Chapel Road, Hyderabad - 500001 <br> (Autonomous) <br> (Accredited by NBA, NACC 'A' Grade) <br> (Affiliated to Osmania University, Approved by AICTE) 

2021-2022


PRINCIPAL

## Acknowledgement

We would like to thank our Management \& Principal for giving us this opportunity to conducting ATAL sponsored Online Faculty Development Program on "Advances in Electronics and Communication Engineering for Industrial Applications"

We show our sincere thanks to our beloved HOD, Prof. A Gopala Sharma for encouraging us and accepting our proposal to organize this FDP.

## Stanley College of Engineering © Technology for Women

Presents ATAL sponsored


One Wect Online faculty Development Programme on
*-Advances in Electronies and Compunuicafion Enzineerhay Toz Imdustrial Applications*

Organixedby


Departwent of Electronics, and Commanicalion Engimetrine Website: gworstanler ede in

## OBJECTIVE OF THE FDP

To explore how faculty can integrate Design Thinking the field of Electronics and Communications to impart principles in the curriculur


## 26-7-2021(Day-1) 9:30AM to 10:00AM

The session started with welcome address by Dr.G.Karthik(Coordinator) and continued with light lamping followed by National Song. The Convener Mrs. C.V.Keerthi Lathe gave a description of the Scheduled and explained about the rules for attending FDP.

The session was then handed over to the Chief Guest of the program Dr.Baweja, Ex. Senior Director Ministry of Electronics \& IT, GoI to address the participants.

## Session -1: 10.00 AM to 11.30 AM

Professor L.Nirmala Devi Chair Person, BOS (autonomous), ECE, University College of Engineering, OU the Guest of Honour has addressed the participants and continued as session speaker by delivering a lecture on "Introduction and Overview of Wireless Sensor Networks" where the concepts of sensor network protocols and the industry related works carried out in the university and also the opportunities in the industry has been highlighted and the session concluded by interaction with the participants to clarify their doubts.

## Session-2: 11.45 Am to 1.15 PM

After a break of 15 min Dr. Susant Kumar Panigrahi, Assistant Professor, School of Electrical and Electronics Engineering, VIT Bhopal delivered a lecture on "Multiscale Image Analysis" where concepts used in industries, research concepts and also the challenges in Multiscale image analysis are explained and session concluded by clarifying the doubts.

## Session -3: 2.00 PM to 3.30 PM

Post lunch session was handled by Mr D Chirangeevi, Sr. Engineer, Cientra Tech Solutions, Hyderabad, TS on "5G-NR NSA Protocol" where all the concepts of design protocols used in industries are exposed to the participants and also highlighted the challenges in the 5G Technology. The session for the day ended by interacting with the participants to clarify their doubts.

## 27-7-2021(Dav-2)

## Session -1: 10.00 AM to 11.30 AM

Dr. Anita Gehlot, Associate Professor, Division of Innovation and Entrepreneurship, School of Electrical and Electronics Engineering, Lovely Professional University pontificated on "Innovation and IPR", where the speaker highlighted on patenting process and platforms available for applying the patent and continued with the intellectual property rights. The session ended with participants interaction by clarifying their doubts.

## Session -2: 11.45 Am to 1.15 PM

The pre lunch session was on "Problem Solving in Engineering" by Prof A Gopala Sharma, HoD, ECE, SCETW, Hyderabad who explained about the practical issues and design aspects in engineering in solving the industry related problems. He continued the session by giving some industry related challenges in the domain of engineering. The session concluded by clarifying the participants doubts.

## Session -3: 2.00 PM to 3.30 PM

The last session of the day was on "FMCW Radar \& its Applications by Shri Paramananda Jena, ScientistF, LRDE, DRDO-Bengaluru, KA. He discussed some of the works carried in DRDO and the requirement of continuous wave radar. He also elevated on the applications in this domain and also the research concepts related to FMCW radar. The session was concluded by participants interaction.

## 28-7-2021(Dav-3)

## Session -1: 10.00 AM to 11.30 AM

Mr. P. Rohit Good, TechFLUENT Solutions Pvt Ltd, Hyderabad the session speaker delivers a talk on industries "Advanced Industrial Trends in Wireless Communication from NI." In this he explained about the hands-on tools used in the domain of wireless communications and also highlighted about different industries who are concentrating in developing these technologies. The pre break session ended by participant interaction with the speaker.

## Session -2: 11.45 Am to 1.15 PM

The session speaker Dr Kezia Joseph, Professor, Dept. of ECE, SCETW, Hyderabad. delivered talk on "Recent Trends in Image Processing" where the basic concepts of image processing are discussed and continued with the challenges and opportunities in image processing in industry and medical fields. The session ended with participant interaction.

## Session -3: 2.00 PM to 3.30 PM

The last session of the day ended on "R \& D trends in Global and Regional Satellite Navigation Systems" by Dr.P.Naveen Kumar, Professor, Advance GNSS Research Laboratory, ECE, Osmania University who yelled on the project works sanctioned by industry and the work carried out in the university. He also explained about the industry challenges in this domain and different ways on how to find the solutions for the works handled. The session ended by clarifying the participants doubts.

## 29-7-2021(Day-4)

## Session - 1: 10.00 AM to 11.30 AM

Session started by Dr B Anil Kumar, GRIET, Hyderabad by giving a talk on "Wireless Network Protocols", where different network protocols are explained in the beginning and went on with the industry applications and concluded with participant interaction.

## Session - 2: 11.45 Am to 1.15 PM

Dr. Kedar Nath Sahu, Professor, Dept. of ECE, SCETW, Hyderabad delivered lecture on "Radars for Modern Healthcare" where practical aspects of medical health monitoring system designs, challenges and their applications are discussed. The session continued by giving some insights in research going on in this domain and importance of modelling a monitoring system. The session concluded with the interaction with the participants.

## Session -3: 2.00 PM to 3.30 PM

Post lunch session was handled by Dr G Karthik, Associate Professor, Dept. of ECE, SCETW, Hyderabad On "Applications of Io and Smart Sensor for Industrial Safety" who droned on the concepts of research concepts in the domain of JoT and its safety requirements where the smart sensors importance has been highlighted in different applications. This session of the day ended by giving some inputs to meet industry requirements in design aspects .

## 30-7-2021(Day-5)

## Session - 1: 10.00 AM to 11.30 AM

Dr. Anoop Kumar Mishra, Associate Professor, VIT-AP University the session speaker pontificated on "Bidirectional Multi-User Multi-Relay Transmission Systems" where he highlighted about the transmission system and design and also gave insights about the challenges that we should meet so that the gap between industry and institute will be minimized. The session ended by clarifying the participants doubts.

## Session -2: 11.45 Am to 1.15 PM

The session started by Dr. Santos Kumar Das, Dept. of EC, National Institute of Technology, Rourkela, India on "Internet of Things" where the speaker sermonize about the research works carried out in their institute and conclude with the industry challenges and interaction with the participants. Say

## Session - 3: 2.00 PM to 3.30 PM

The Program got concluded by Panel Discussion-By Dr Satya Prasad Lanka, Principal, Professor, Dept. of ECE, SCETW, Hyderabad along with other panel members who finally gave their suggestions and advises to all the participants and also the industry opportunities in various domains discussed in the faculty development program.

At the last the Program was successfully completed by celebrating the valedictory ceremony.


As per the guidelines given by ATAL every session attendance was recorded and updated in the portal. All participants are instructed to fill the feedback form available in their ATAL portal.

Online test for the participants is conducted at the last day after the valedictory ceremony and the marks are uploaded for the participants available in the portal.

## Dane: $16|6| 202$

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To
The Rencomal Disector,
Stany Colloge of Engineerng and Tachnotogy for Women
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Sub: Rolease at a sum of Res 93,000 for ACTE Trainng ard Leaming foth Acadeny Cntine FDP





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\section*{AICTE Training And Learning(ATAL) Academy Programme}

\section*{STATEMENT OF EXPENDITURE}

ACTE FiLe No. (Sanction letter file No.) : FNo.01/AICTE/ATAL-HQ/2020-21_123(22) dated 16-62021.

Title of the Programme
Application No.
1614877789
Name of the Coordinator: Dr.K.L.Vasundhara


\section*{K. W. Vaburaher.}

Dr kLL.Wasundhara
Courdnator
Department of H\&S
Stanley College of Eng g S Tach. Fr Women
Chapel Pond. Abies. Hyderabad. AP

> estuary
(3) Signature (with Seal) of the Eimureg officers Aiditor/Accountswifficoldge of Engin \& Tech. for Women (Autonomous) (II it is Govt./Govt. offal histitute

(2) Dr Satya Prasad Lankipinctral
 , Abits, Byderabal-7s
(4) Signature of Chartered Accountant:

Name of Chartered Accountant:
Membership No:
Rubber stamp:
Full Address:
Date:

Note:-If it is more than one page, each page must be signed in all annexure

\title{
STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN
}
(Private Un-aided Non-minority Autonomous Institution) (Accredited by NAAC with "A" Grade. Accredited by NBA) Affiliated to Osmania University and Approved by AICTE

ABIDE HYDERABAD-500001
UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR-2020-21
AICTE Training and Learning (ATAL) Academy

ALCTE File No.
Name of Coordinator Application No.
: ENO.01/AICTE/ATAL-HQ/202021-123(22) dated 16-6-2021
: Dr K.L. Vasundhara
: 1614877789

Title of the ATAL Programme: Role of Mathematics in Future Technologies


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.

\section*{Kinds of checks exercised: -}

Audited Annual Accounts of the InstituteReceipt and Payment account Periodical Progress Reports.

\section*{K.LVexind War.}
1. Dr.kLVasundhara

Coordigatament of Has


cate:
2. Signature of Chartered Accountant:

Name of Chartered Accountant:
Membership No:
Rubber stamp:
Full Address:

4. Signature of the Fofruce of aby Accounts Officer:

Name of the Finance Officer/Arcounts Officer:
(If it is Govt/ Govt, Aided Institute)

3. Dr Satya Prasad Larfincifal
 Principalrols Real, Abide Eyderala Full Address: Stanley College of Engineering and Technology for Women, Abids, Hyderabad. Telangana.
Date:

Stanley College of Engineering \& Technology for Women (Affiliated to Osmania University - College Code 1606)

To,
Date: 19/07/2021
The Manager,
State Bank of Hyderabad,
Gunfoundry Branch,
Hyderabad.
Sir,

> Sub: Bulk amount credits. Reg.,
> Ref:- Bank Current Account No. 62079191810

With reference subject cited issued a cheque of Rs. \(45,000 /\). (Rupees Forty five thousand only) vide Ch.No.608955,Dt: 19/07/2021, I am here with authorized to transfer amount transfer respective accounts, Kindly credit the following amounts into accounts.


sure:-
.. Hard copy of Statement
Chapel Road, Abids, Hyderabad - 500001. A. P., India. Ph: 040-23234880 \& 23244880. Www stanley.edu.in

\section*{REPORT}

\section*{ON}

\title{
"Role of Mathematics in Future Technologies" \\ 12th to 16th July 2021
}

ATAL sponsored

\section*{Faculty Development Programme}

\section*{Organized by}

\section*{Department of Mathematics}

Stanley College of Engineering and Technology For Women
Chapel Road, Hyderabad - 500001
(Autonomous)
(Accredited by NBA, NACC 'A' Grade)
(Affiliated to Osmania University, Approved by AICTE)

\title{
"Role of Mathematics in Future Technologies"
}

\section*{REPORT}

\section*{SUBMITTED}

\section*{BY}

\author{
Dr. K.L.Vasundhara, Associate Professor
}

Dr.K.vaidehi, Associate Professor


\section*{Department of Mathematics}

Stanley College of Engineering and Technology For Women Chapel Road, Hyderabad - 500001
(Autonomous)
(Accredited by NBA, NACC 'A' Grade)
(Affiliated to Osmania University, Approved by AICTE)

2021-2022


PRINCIPAL

\section*{Acknowledgement}

We would like to thank our Management \& Principal for giving us this opportunity to conducting ATAL sponsored Online Faculty Development Program on "Role of Mathematics in Future Technologies"

SIANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN (AUTONO:ROUS)
Chapel Road, Abids, Hyderabad, Telangana

\section*{Stanley College of Engineering © Technology for Women}
 Accredited by NBA (all eligible UG courses) NAAC 'A' Grade. Chapel Roat, Abids, Hyderalad, Telangana - 500001.


Presents ATAL sponsored


One week Online Facally Development Programume on
"Advanees in Electronics mna Comnnumication Enembering fon Industrial Applications**

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\section*{OBJECTIVE OF THE FDP}

To explore how faculty can integrate Design Thinking the field of Electronics and Communications to impart principles in the curriculun
\begin{tabular}{|c|c|c|c|}
\hline  & \multicolumn{3}{|r|}{PROGRAME SCHEDULE} \\
\hline \multirow[t]{2}{*}{NAAC 'A' GRADE E NBA ACCREDTED} & TIME & EvENT & STENEIR \\
\hline & \multirow[b]{2}{*}{09.30am} & \multicolumn{2}{|l|}{Invocation} \\
\hline  & & Inviting the
Guests \&
Opening Address & \begin{tabular}{l}
Ms Manjot Kaur \\
\(\stackrel{\&}{\text { \& }}\)
\end{tabular} \\
\hline the inaugural Function of & 09.35an & Presentation of FDP Detailis & \[
\begin{gathered}
\text { Ms. c.v. Keerthi } \\
\text { Lathao }
\end{gathered}
\] \\
\hline \multirow[t]{2}{*}{ATAL Sponsored One Week Online Faculty Development Programme} & 09.40 am & Address by Principal & \[
\begin{gathered}
\text { Dr. Satya } \\
\text { Prasad Lanka }
\end{gathered}
\] \\
\hline & 09.45 am & Message by \({ }_{\text {dean }}\) & DrA. Vinay Babu \\
\hline \multirow[t]{3}{*}{"Advances in Electronics and Communication Engineering for Industrial Applications On \(26^{\text {th }}\) Hily \(2021 @ 9.30\) Am} & 09.50am & Address by the Chief Guest & Mr. B.м. Baveja \\
\hline & 09.55 am & Address by the Guest of Honour & Prof. L. Nirmala Devi \\
\hline & 10.00 am & Vote of Thanks & Ms. Ramya Sree \\
\hline & STANLEY TECHNOL Chapel F & \begin{tabular}{l}
Catho \\
PRINCIPA COLLEGE OF ENG OGY FOR WOMEN Road, Abids, Hydera
\end{tabular} & \begin{tabular}{l}
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1 11/3/2024 ineering and (ato bau. Telangana
\end{tabular} \\
\hline
\end{tabular}

\section*{12-7-2021(Day-1) 9:30AM to 10:00AM}

The session started with welcome address by Dr.K.L.Vasundhara(Coordinator) and continued with light lamping followed by National Song and gave a description of the Scheduled and explained about the rules for attending FDP.

The session was then handed over to the Chief Guest of the program Prof. Anil D. Sahasrabudhe, Chairman, AICTE and then address by Guest of Honor Dr.Buddha Chandrasekhar, CCO-AICTE.

\section*{Session - 1: 10.00 AM to 11.30 AM}

Prof.LakshmiBurra (Visiting) Professor of Mathematics, IIIT-Hyderabad
Prof. Lakshmi Burra is a Double Doctorate in Mathematics. Having obtained a PhD in Mathematics from Osmania University, she then went to Europe, to obtain her second Doctoral degree in Mathematics under the eminent Mathematician Prof. Fabio Zanolin. She explained Logistic Differential Equations and models for Population growth.

\section*{Session -2: 11.45 Am to 1.15 PM}

After a break of 15 min . Prof. Venkata Sundaranand Putcha Professor, Dept.of Mathematics, RayalseemaUniversity, gave talk on "Role of Mathematics in Machine Learning" and session concluded by clarifying the doubts.
Session -3: 2.00 PM to 3.30 PM
Post lunch session was handled by Dr.D.V.Ramana Data Scientist, Hyderabad.
Dr DV Ramana is a Data Strategist-Consultant, Completed Ph.D. from National Geophysical Research Institute (CSIR Lab-NGRI) Hyderabad, delivered lecture on "Applications of Operations Research in data science. The session for the day ended by interacting with the participants to clarify their doubts.

\section*{13-7-2021(Day-2)}

\section*{Session -1: 10.00 AM to 11.30 AM}

Prof.P.S.Avadhani Professor, Andhra University. He did PhD from I.I.T. Kanpur, India and M. Tech (Computer Science), I.I.T. Kanpur, India. He was Director, IIIT, Agartala, talk on "COMPUTER ALGARITHUMS". The session ended with participant's interaction by clarifying their doubts.


PRINCIPAL

He Completed his B. Sc and M.Sc in Statistics from Andhra University and Osmania University respectively. Ph. D. in Statistics and M.Tech(CS\&Engineering) from Osmania University,gaveinsights on "Modeling and Simulation. The session concluded by clarifying the participant's doubts.

\section*{Session -3: 2.00 PM to 3.30 PM}

Prof.RamaChellappa, Professor, Univeristyof Maryland USA
Prof. Rama Chellappa is a Bloomberg Distinguished Professor in the Departments of Electrical and Computer Engineering (Whiting School of Engineering) and Biomedical Engineering (School of Medicine) at Johns Hopkins University (JHU) ,delivered nine problems which are related to "Mathematical applications in Engineering". The session was concluded by participants interaction.

\section*{14-7-2021(Day-3)}

\section*{Session - 1: 10.00 AM to 11.30 AM}
. Prof. BapiRaju Professor, IIIT Hyderabad.
Dr. S. Bap Raju is a professor in the School of Computer and Information Sciences, University of Hyderabad, Hyderabad, India. He has degrees in BE (Electrical Engineering) from Osmania University, MS (Biomedical Engineering) and PhD (Computer Science) from University of Texas, Arlington, USA, explained in detail the role of Mathematics in Machine learning. The gre break session ended by participant interaction with the speaker.

\section*{Session - 2: 11.45 Am to 1.15 PM}

Dr. S M Subhani Head SQC \& OR Unit, ISI ,Hyderabad.
He did Ph D (Mathematics) presented lecture on "Statistical Applications". The session ended with participant interaction.

\section*{Session -3: 2.00 PM to 3.30 PM}

Dr.BharathDandala IBM,USA
Dr. Dandala holds a Ph.D. and masters in computer science from University of North Texas, explained about the Technology in Health Science. The session ended by clarifying the participants doubts.

\section*{15-7-2021(Day-4)}

\section*{Session - 1: 10.00 AM to 11.30 AM}

Prof. M.V.RamanaMurthy Retd.Professor, Osmania University.
Awarded Doctor of Philosophy by Osmania University in the year 1986, delivered lecture on "Mathematical Equations used in IOT" concluded with participant interaction.

\section*{Session - 2: 11.45 Am to 1.15 PM}


Dr.RVVS.Sateesh Asst.Director, ERNST \& Young(EY), Bangalore.

He did Doctorate in Lean Six Sigma, lecture on"Statistical Applicatons". The session concluded with the interaction with the participants.

\section*{Session -3: 2.00 PM to 3.30 PM}

Prof.P.V.S.N.Murthy Professor, IIT Kharagpur.
He did Ph.D. in Fluid mechanics from Department of Mathematics, IIT Kanpur, delivered lecture on "Mathematical applications in Engineering. The session ended by clarifying the participants doubts.

\section*{16-7-2021(Day-5)}

DR.K.VAIDEHI,Assoc.Prof of Computer SCIENCE, Stanley College of Engineering and Technology for women. she did PhD in Image Processing from ANNA University gave lecture on "Mathematical applications in Python program. The session ended by clarifying the participants doubts.

\section*{Session -2: 11.45 Am to 1.15 PM}

\section*{Prof. A. RAVINDER NATH M.Tech., Ph.D., FIE, FPP}

Former Dean, Faculty of Technology, Osmania University, Hyderabad.
Post-Doctoral Studies (1997-2001) in Pharmacy, State University of New York, Stony Brook, NY, USA and Ph.D., (1988) in Chemical Sciences, Osmania University, Hyderabad, explained Mathematics in Biotechnology and conclude with the industry challenges and interaction with the participants.

\section*{Session -3: 2.00 PM to 3.30 PM}

The Program got concluded with "Question and Answer" Program and was successfully completed by celebrating the valedictory ceremony.


PRINCIPAL

\section*{Stanley College of Engineering © Technology for Women (Autonomous)}

Approved by Aicte \& Affllated to Osmanla University, Accredited by NBA (all eligible UG courses) NAAC 'A' Grade. Chapel Road, Abids, Hyderabad, Telangana - 500001.


Valedictory Ceremony of ATAL - Faculty Development Program (FDP)
on
A Mivances in Electronics and
Comma \(\quad\) "min Engimeering for Indsstrial Applications" 30th July 2021
organized by Dept. ECE

As per the guidelines given by ATAL every session attendance was recorded and updated in the portal. All participants are instructed to fill the feedback form available in their ATAL portal.

Online test for the participants is conducted at the last day after the valedictory ceremony and the marks are uploaded for the participants available in the portal.


PRINCIPAL
STANLEY COLLECE OF ENGMEERING ANO
TECHNOLOGY FOR WOWEH (AUTONOWUSS
Chapel Road, Abids, Hyderabad, Telangana

\section*{Sanction Order}

To,
The Registrar/Principal/Financial Authority,
Through Dr. Padmasree gangula
Stanley College of Engineering and Technology for Women

\section*{Subject: Collaborative Research Scheme(CRS) Project of UGC-DAE CSR entitle 'Effect of} Neodymium (Nd) and Praseodymium (Pr) doping on structural, magnetic, electrical, dielectric, optical and Mossbauer properties of YFeO 3 ' by Dr. Padmasree gangula.

Dear Madam/Sir,
In continuation to our sanction letter the CRS project submitted to UGC-DAE CSR by Dr.
Padmasree gangula of your institution has been approved by the competent authority. The principal collaborator from UGC-DAE CSR is Dr. V. Raghavendra Reddy.The details of the remittance are given below:
\begin{tabular}{|l|l|l|l|l|l|}
\hline \begin{tabular}{l} 
Student fellowship(@ \\
\(₹ 14,000 /-\) pm+HRA)
\end{tabular} & Consumable & Contingency & Total Amount & Date of remittance & PFMS Ref. No. \\
\hline\(₹ 213360\) & \(₹ 30,000\) & \(₹ 15,000\) & \(₹ 258360\) & \(2023-03-28\) & C032385600302 \\
\hline \multicolumn{6}{|l|}{ No overheads are available under this scheme }
\end{tabular}

This project has been approved as per the guidelines given below:
1. This is a Collaborative Research Scheme (CRS) of UGC-DAE CSR. In view of the complex and involved nature of the experiments, any publication emerging under the project must be of collaborative in nature with due consents from the scientists at UGC-DAE CSR and/or DAE centres, and in consultation with the Principal Collaborator/Coordinator. Following phrase must be included in the acknowledgement: "This work was partially/fully carried out using the facilities of UGC-DAE CSR. The authors acknowledge the financial support from UGC-DAE CSR through a Collaborative Research Scheme (CRS) project number CRS/2021-22/01/376."
2. This project is sanctioned for one year but it may be extended on yearly basis subject to a total period of three years.
3. In case the CRS project has been approved without student fellowship, it will not be possible to grant student fellowship in subsequent years as well.
4. The PI must 'Apply for an Experiment Time' through our online user portal https://csruserportal.com/ for utilization of each experimental facility each time.
5. The project will be reviewed at the end of each year to consider sanction and financial allocation for the succeeding year.
6. The release of grants for the subsequent years can be made only upon receipt of funds from UGC towards the scheme. A separate sanction order will be issued for the subsequent years.
7. At the end of the financial year (i.e. by March 31) the PI should submit
(i) Utilization Certificate in the format provided at our website for the amount spent and
(ii) A Statement of Expenditure duly signed by the Registrar/Principal/competent financial authority of your university/institution to the Centre-Director of respective Centre. The release of funds for the subsequent year(s) can only be made after receiving the above documents.
8. The UGC-DAE CSR will be able to reimburse the travel expenses to Project Investigators as per rules, limited to 2nd AC train fare visiting a centre on project work. However, the student participant is permitted for a sleeper class train fare by the shortest route and is as per prevailing norms of UGC-DAE CSR.

\section*{Rules for selection of a CRS project fellow}

The CRS project fellow (if approved) should be made by an open selection procedure as per UGC guidelines. The recruitment procedure should be completed within 3 months after the release of the sanction order. The details for recruitment are given below:
\begin{tabular}{|l|l|l|l|}
\hline \# & Designation & Remuneration & Qualifications \\
\hline 1 & \begin{tabular}{l} 
CRS Project Fellow \\
(Junior) -I
\end{tabular} & ₹14,000 + HRA & \begin{tabular}{l} 
M.SC. (not earlier than 3 years) with a minimum of 55\% marks in the \\
concerned subject (for Science) \\
M.E. / M. Tech. (not earlier than 3 years) lst Class (for Engineering)
\end{tabular} \\
\hline 2 & \begin{tabular}{l} 
CRS Project Fellow \\
(Senior)-I
\end{tabular} & ₹16,000 + HRA & \begin{tabular}{l} 
After completion of 2 years as a CRS Project Fellow (Junior) -I \\
+ at least one research paper in a reputed SCI journal \\
+ assessment of the student by a 3 member expert committee approved \\
by the Centre-Director
\end{tabular} \\
\hline 3 & \begin{tabular}{l} 
CRS Project Fellow \\
(Junior)-II
\end{tabular} & ₹31,000 + HRA & \begin{tabular}{l} 
Same as (1) \\
+ valid JEST/GATE/NET-JRF/Lectureship/UGC-CSIR NET JRF/Lectureship \\
+Ph.D. registration of the student under the supervision of the PI at the \\
University where Pl's institute is affiliated
\end{tabular} \\
\hline 4 & \begin{tabular}{l} 
CRS Project Fellow \\
(Senior)-II
\end{tabular} & ₹35,000 + HRA & \begin{tabular}{l} 
After completion of 2 years as a CRS Project Fellow (Junior)-II \\
+ at least one research paper in a reputed SCI journal \\
+assessment of the student by a 3 member expert committee approved \\
by the Centre-Director
\end{tabular} \\
\hline
\end{tabular}
1. All recruitment should be authorized by a selection committee as per rules of University/Institution in which the PI is working. The advertisement should be widely circulated electronically and a copy should be sent to the Principal Collaborator.
2. For appointing a student in the CRS project, the interview panel must be approved by the CentreDirector of the respective Centre. The PI should inform the interview schedule as least 2 weeks in advance. The entire process should be conducted in an online/hybrid mode.
3. A UGC-DAR CSR nominee along with Principal Collaborator is needed for all interviews and upgradations.
4. For all appointments, it has to be mentioned that it is on purely temporary basis and will coterminate with the CRS project. Leave rules for the appointed fellow will be as per the host institution of PI.
5. Appointment of student in the project is not permitted in the second or third year of the project.
6. While appointing as well as upgrading, a copy of relevant documents including CV along with educational qualification documents (incl. NET/GATE, etc.), minutes of the selection committee/upgradation committee, appointment letter, joining report etc. must be send to the Centre-Director of the respective Centre.
7. The student appointed under this project should spend a substantial amount of time at UGC-DAE CSR.
8. Contingency fund to be utilized for computational work, purchase of stationary and other consumables pertaining to the concerned project. No grant is allocated for any capital equipment/asset.

Copy to: Through User Portal to: Director, concerned Centre-Director, User Office, Dr. Padmasree gangula, Dr. V. Raghavendra Reddy, AO for information.

Subject: Financial assistance for the project entitled "IoT Based Landslide and Slope Monitoring system using TDR and Shape Accel Array for Mines" submitted by Dr. Dr Guntha Karthik, STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, HYDERABAD, HYDERABAD, TELANGANA, 500001. Release of the First installment regarding

In supersession of this department's sanction order of even number dated 29/03/2023, Sanction of the President is hereby accorded to the approval to the above mention project at a total cost of Rs. 47,63,158/- (Rupees Forty Seven Lakh Sixty Three Thousand One Hundred Fifty Eight only) for the duration of 3 Years. The detailed breakup of the grant for general as well as capital components are given below: -
General Component : ₹ 19,19,920
Capital Component : ₹ \(28,43,238\)

\begin{tabular}{|l|l|c|c|c|c|r|}
\hline 6 & Buzzers CR1000 (No. 20)-. & 20 & 10476 & 0 & 0 & 10476 \\
\hline 7 & GST (18\%)-. & 1 & 433714 & 0 & 0 & 433714 \\
\hline \multicolumn{2}{|c|}{ Total } & 2843238 & 0 & 0 & \(\mathbf{2 8 4 3 2 3 8}\) \\
\hline
\end{tabular}
2. The sanction of the President is also accorded to the release of Rs. 28,43,238/- (Rupees Twenty Eight Lakh Forty Three Thousand Two Hundred Thirty Eight only) to the "Director/Registrar/Principal/Controller/Comptroller, STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN" being the First installment of grant as mentioned above table under "Capital Component" for the above mentioned pros
3. The expenditure involved is debitable to Demand No. 89 , Department of Science \& Technology for the year 2023-24:
\begin{tabular}{|l|l|}
\hline \(\mathbf{3 4 2 5}\) & Other Scientific Research(Major Head) \\
\hline 3425.60 & Others : (Sub-Major Head) \\
\hline \(\mathbf{3 4 2 5 . 6 0 . 2 0 0}\) & Assistance to Other Scientific Bodies(Minor Head) \\
\hline 3425.50.200.70 & Innovation, Technology Development and Deployment \\
\hline \(\mathbf{3 4 2 5 . 6 0 . 2 0 0 . 7 0 . 0 0}\) & Detailed Head \\
\hline \(\mathbf{3 4 2 5 . 6 0 . 2 0 0 . 7 0 . 0 0 . 3 5}\) & Grants for creation of capital assets \\
\hline & (Previous: 3425.60.200.08.11.35) \\
\hline
\end{tabular}
4. The amount of \(₹=\) (Rupee One only) against the sanctioned amount of \(28,43,238 /-\) (Rupees Twenty Eight Lakh Forty Three Thousand Two Hundred Thirty Eight only) will be drawn by DDO, DST and disbursed to the "CNA account of SERB in respect of Innovation, Technology Development and Deployment Scheme".
\begin{tabular}{|l|l|}
\hline Name of A/C Holder & Innovation Technology Development and Deployment \\
\hline Bank A/C No & 349902010051240 \\
\hline Name of the Bank \& branch & Union Bank of India, Safdarjang Enclave - New Delhi \\
\hline RTGS/IFSC code & UBIN0534994 \\
\hline
\end{tabular}
5. CNA shall assign/allocate the amount of Rs. 28,43,238/- (Rupees Twenty Eight Lakh Forty Three Thousand Two Hundred Thirty Eight only) to the Director/Registrar/Principal/Controller/Comptrollex, STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN" as per details given below:-
\begin{tabular}{|l|l|}
\hline Name of A/C Holder & \begin{tabular}{l} 
STANLEY COLLEGE OF ENG \& TECH FOR WOMEN \\
-TD
\end{tabular} \\
\hline Bank A/C No & 070512010000365 \\
\hline \begin{tabular}{l} 
Name of the Bank \& \\
branch
\end{tabular} & Union Bank of India \\
\hline RTGSIIFSC code & UBIN0807052 \\
\hline
\end{tabular}
6. As per Rule 234 of GFR 2017, the sanction has been entered at S. No 63 . in the register of grants maintained in the SEED for the scheme Scheme for Young Scientists and
Technologists.
7. This issues with the concurrence of IFD Vide their Concurring Dy

1FD/C/III/190623/35/00897 dated 19/06/2023.
8. The GI will keep all the funds received in the Central Nodal Account only and shall not transfer the funds to any other account or not divert the same to Fixed Deposits' ElexiAccount/ Multi-Option Deposit Account' Corporate Liquid Term Deposit (CLTD) account etc. The funds released to GI shall not be parked in bank account of any other agency.
9. The GI will ensure the compliance of OM. No. F. No. 1/(18)/PFMS/FCD/2021 dated March 9, 2022 of Department of Expenditure, Ministry of Finance.
10. NGO darpan portal ID of the institution: MH/2017/0177840
11. This sanction order is subject to the Terms \& Conditions as annexed.


\section*{Dr. AKANKSHA GUPTA}

Scientist - ' \(\mathbf{C}^{\prime}\)
akanksha.g@gov.in
To,
The Pay \& Accounts Officer,
Department of Science \& Technology,
New Delhi - 110016.
Copy of information and necessary action to: -
1. The Principal Director of Audit, Scientific Deparment, Mrd floor, AGCR Building, I.P.
Estate, New Delhi.
2. The Financial Advisor, Integrated Finance Division, Technology Bhavan, New Mehrauli Road, Block C, Qutab Institutional Area, New Delhi, Dethi 110016
3. The Internal Audit Wing, Department of Science \& Technology,Technology Bhavan, New Mehraull Road, Block C, Qutab Institutional Area, New Delhi, Delhi 110016
4. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
5. Dr. Dr Guntha Karthik, Associate Professor, Electronics and Communication Engineering, STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN,
T1 Dir
6. The Director/Registrar/Principal/Controller/Comptroller/Chief Executive Officer(CEO), STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN,
7. Secretary, SERB, New Delhi ( for allocation of limits to implementing agency)
8. Head (SEED) DST
9. Sanction Folder (SEED)

\section*{ANNFXIIDE}


\section*{GOVERNMENT OF INDIA}

Ministry of Science \& Technology
Department of Science \& Technology
SP/YO/2021/2615 (C)
Terms \& Conditions
1. The grantee organization will furnish to the Department of Science \& Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report (Vis-a-Vis Target Vs-Achievement) at the end of each financial year duly reflecting the interest eamed / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
2. The grantee organization will have to enter \& upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final Division and entry of released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
3. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SEIUC has to be furnished for the
4. The grant-in-aid being released is subject to the condition that:-
a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on
receipt of the grant.
b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to be ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
5. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be
6. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India"
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017 -18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.govin ), immediately after finalization of accounts, as it shall not be along with Statement release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent
release of Grant/ Closure of Project accounts.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable disposed of without obtaining the prior approval of DST . 9. The account of the grantee organization shall be open to inspection by the sanctioning anthority and audit (both by C\&AG of India and Internal Audit by the Principal Accounts


Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
10. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication / media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
11. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
12. It is mandatory to use EAT module in PFMS, failing which no further funds shall be
released 13. Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.
14. The Grantee Institute should follow Global Tendering Enquiry (GTE) conditions as per Department of Expenditure ID Note No:4/1/2021-PPD dated 10.09.2021.
15. If One time assistance of not-recurring grant as Grant-in-Aid for Rs. 10.00 lakhs to Rs. 50.00 lakhs, it should be included in the Annual Report of the Institute.
16. The Grantee Institute must ensure any other provisions of GFR-2017 (https://doe.govin/order-circular/general-financial-rules201\%-0) and guidelines/amendments issued from Govt. of India from time to time.


\section*{SP/YO/2021/2615 (C)}

\section*{निबंधन और शर्तें}
1. अनुदानग्राही संस्थान प्रत्येक वित्त वर्ष के अंत में इस परियोजना के अंतर्गत प्राप्त अनुदान पर अर्जितः प्रोद्भूत ब्याज को विधिवत रूप से दर्शाते हुए अद्यतन प्रगति रिपोर्ट (लक्ष्य बनाम उपलक्षि) के साथ जीएफ़आर 2017 में विनिर्दिष्ट प्ररूप में कित्तीय वर्ष-वार उपयोग प्रमाण फत्र (यूसी) और व्यय का लेखापरीक्षित विवरण (एसई) विज्ञान और प्रौद्योगिकी विभाग को प्रस्तुत करेगा। यह परियोजना की समाप्ति की निर्धारित तारीख से एक वर्ष भीतर व्यय का अंतिम विवरण, उपयोग प्रमाण-पत्र और परियोजना समाप्ति रिपोर्ट प्रस्तुत करने की शर्त के भी अध्पधीन है।
2. अनुदानग्राही संस्थान को उपयोग प्रमाण-पत्र इस प्रभाग में भौतिक रूप में भैजने के साथं-साथ पीएफ़एमएस पोर्टल पर प्रविष्ट और अपलोड करना होगा। अनुवर्ती/अंतिम किस्त प्रभाग द्वारा यूसी की स्वीकृति की पुष्टि और पीएफ़एमएस में पूर्ववर्ती उपयोग प्रमाण-पत्र की प्रकिहि के बाद ही जारी की जाएगी।
3. यदि अनुदान एक ही परियोजना के अंतर्गत उपर्कर (रों) की खरीद के लिए पृथक संस्वीकृति आदेश के माध्यम से पूंजी-शीर्ष के अंतर्गत जारी किया गया है तो जारी किया गया पूंजी-शीर्ष अनुदान के लिए पृथक एसई/ूूसी प्रस्तुत करना होगा।
4. जारी किया जा रहा सहायतः अनुदान निम्नलिखित शर्तो के अध्यधीन है-

क) उपर्युक्त परियोजना के लिए संस्वीकृत पूंजी आस्तियों की खरीद करते समय अनुदानग्राही संस्थान के उचित नियमों के तहत संस्थान/संगठन द्वारा सामान्य वित्तीय नियमादली 2017 के उपबंधों के अनुरूप पारदर्शी खरीद प्रक्रिया का अनुपालन किया जाए और अनुदान प्राप्ति पर तुरंत प्रभाव से अनुदानग्राही संगठन द्वारा इस आशय का प्रमाण-पत्न प्रस्तुत किया जाए।
ख) उपयोग प्रमाणु-पत्र/ व्यय विवरण प्रस्तुत करते समय, संगठन को जीएफ़आर 2017 के उपबंधों के अनुसरण में उपस्कर/पंजी आस्तियों की खरीद के संबंध में संबन्थित दस्ताकेज़-साक्ष्य ध्रस्तुत
करना सुनिक्षित करना होता है।
5. जीएफ़आर नियमावली 2017 के नियम 230 (8) के अनुसार अनुदानग्राही संस्थान को सुनिश्चित करना चाहिए कि किसी भी अनुदानग्राही संस्थान को जारी किए गए सहायता अनुदान या अग्रिम (प्रतिपूर्ति से भिन्न) पर प्राप्त समस्त प्रकार के ब्याज या अन्य आय को लेखों को अंतिम रूप दिए जाने के तुरेत बाद भारतीय समेकित निधि में अनिवार्य रूप से विण्रेषित किया जाए। ऐसे अग्रिमों को भविष्य में जारी की जाने वाली निधियों में समायोजित करने की अनुमति नहीं दी जाएगी।
6. जीएफ़आर नियमावली 2017 के नियम 230 (17) के अनुसार, "अनुदानग्राही संस्थान को भारत सरकार के निर्देशानुसार अपने नियंत्रणाधीन पदों या सेवाओं में अनुसूचित जाति या अनुसूचित जनजाति या ओबीसी के लिए आरक्षण रखने पर सहमत होना चाहिए।"
7. अनुदानग्राही संस्थान परियोजना का पृथक परीक्षित लेखा रखेगा और अनुदान की समस्त राशि बैंक खाते में सब्याज रखी जाएगी। वित्तीय वर्ष 2017-18 के दौरान और उसके बाद जारी अनुदान के लिए,

अनुद्वान के लिए सभी प्रकार के ब्याज या अन्य आय ऐसे लेखों को अंतिम रूप दिए जाने के तुरंत बाद भारतीय समेकित निधि में गैर कर प्राप्ति पोर्टल (एनटीआरपी) अर्थात www.bharatkosh.gov.in के माध्धम से) विप्रेषित की जाएगी, क्योंकि यह राशि भविष्य में जारी की जाने वाली राशि में समायोजित नहीं की जाएगी। अनुवर्ती अनुदान के निर्गम/ परियोजना खाते को बंद करने पर विचार किए जाने के लिए, व्यय विवरण/ उपयोग प्रमाण-पत्र के साथ इस आशय का प्रमाण पन्न प्रस्तुत करना होगा।
8. डीएसटी, अनुदान से सृजित परिसंपत्तियों पर एकमात्र सुरक्षित अधिकार रखता है। सरकारी अनुदानों से पूरी तरह से या पर्याप्त रूप से अर्जित संपत्ति (जीएफआर 2017 में निर्धारित प्रक्रिया के अनुसार अप्रचलित और अनुप्रयोज्य, अनुप्योगी घोषित अनुदानों से इतर), का निपटारा डीएसटी का पूर्व अनुमोदन प्राप्त किए बिना नहीं किया जाएगा।
9. जैसा कि सामान्य वित्तीय नियमावली 2017 के नियम 236 (1) के तहत निर्धारित किया गया है, अनुदानग्राही संगठन का लेखा स्वीकृति प्रदाता प्राधिकरी और लेखा परीक्षक (भारत के नियंत्रक एवं महालेखापरीक्षक और डीएसटी के प्रधान लेखा कार्यालय दोनों द्वारा आंतरिक लेखा परीक्षा) द्वारा निरीक्षण किए जाने, जब भी संगठन को ऐसा करने के लिए कहा जाता है, हेतु अभिगम्य होगा।
10. इस परियोजना अनुदान से प्राप्त तकनीकी सहायताववित्तीय सहायता की उचित पावत्ती को अनुदानग्राही संगठन द्वारा सभी प्रकाशनों/मिडिया प्रकाशनी में मोटे अक्षरों में और परियोजना के पूरा होने के दौरान और तदुपरांत उनकी वार्षिक रिपोर्टों के शुरुआती पैराग्राफों में अनिवार्य रूप से दिखाया किया जाना चाहिए।
11. बॉन्ड के नियमों और शत्तों का पालन करने में असफल होने पर जीएफआर 2017 के नियम 231 (2) के अनुसार पूरी राशि सब्याज वापस करनी होगी।
12. पीएफएमएस में ईएटी मॉड्यूल का उपयोग करना अनिवार्य है, ऐसा न करने पर अन्य कोई भी आगामी निधि जारी नहीं की जाएगी।
13. जीएफआर के नियम 149 के उपबंधों के अनुसार जीईएम पोर्टल पर उपलब्ध वस्तुओं (उपभोज्य वस्तु उपर्कर) का अनिवार्यतया आनै लाइन प्रापण जैम (जीईएम) ही के माध्यम से किया जाना है।
14. अनुदान ग्राही संस्थान को व्यय विभाग के आईडी नोट संख्या: \(4 / 1 / 2021\)-पीपीडी दिनांक 10.09.2021 के अनुसार वैश्विक निविदाकरण जांच-पड़ताल (जीटीई) नियमों का पालन करना चाहिए।
15. यदि एकबारगी सहायता या गैर-आवर्ती अनुदान 10.00 लाख रुपये से 50.00 लाख रुपये के सहायता अनुदान का हो तो इसे संस्थान की वार्षिक रिपोर्ट में दर्ज किया जाना चाहिए।
16. अनुदान ग्राही संस्थान को जीएफुआर-2017 (https://doe.gov.in/order-circular/general-financial-rules2017-0) के किसी भी अन्थ उपबंध और समय-समय पर भारत सरकार द्वारा जारी दिशा-निर्देश/संशोधन का अनुपालन सुनिश्शित करना चाहिए।

\section*{Generated through ePMS}


\section*{Annexure 7}

SERB.CNA FUND TRANSFER THROUGUPUBU FIAN ANNEXURE (PEMS) MANFERTHROUGH PUBLUC FINANCIAL MANAGEMENTSYSTEM


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\section*{DST-SEED ACCOUNT DETAILS}




Craton imurdi.
Stanley College of Engg. \& Tech For Women
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College Code: 1606```

