



# MASTERS ATHLETIC ASSOCIATION OF KERALA

Reg. No.T-633/12

Affiliated to National Masters Athletics Association Reg.No.SOCIETY/WEST/2019/8902462

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## EDITORS

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## LINEES TO

**IONAL COMMITTEE**  
**ankara Pillai**  
**Krishnan**

Date: 15.10.2020

Dr. Vishnu Rajan  
Head of the Department & Associate Professor,  
Sahridaya College of Engineering & Technology,  
Kodakara, Thrissur, Kerala

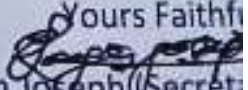
Dear Dr. Vishnu,

[Subject: Regarding consultancy project works for sports council]

I am happy to approve 3 projects submitted by you, as consultancy project works to be completed by Department of ECE, Sahridaya College of Engineering and Technology. On satisfactory completion of the same as per our standards, we will be awarding Rs. 25000 toward the project prototype(s). Also, after detailed evaluation of the accepted prototype(s), scaling as product(s) with additional funding can be in thought of as well.

The list of approved projects are as follows:

Project Title	Guide	Group Members
Photo Finish - For finding prize winners with timings for track events	Dr. Vishnu Rajan	ajay jose ajith m warrier christo pb savanth ks
Ventometer - For finding wind assistance based score addition/subtraction for longjump	Dr. Vishnu Rajan	Aganet Soman Allsha John K Enson Christo
Contactless Longjump Distance measurement	Saran K B Coguide: Dr. Vishnu Rajan	T GAUTHAM SANKER VARGHESE JOY N SAHLA P S BINOY T VARGHESE

Yours Faithfully  
  
Rajan Joseph (Secretary)

SECRETARY

MASTERS ATHLETIC ASSOCIATION OF KERALA

For Correspondence:

Manjaprakkaran House, Chennamkulam, Pottore P.O., Thrissur - 680581



**STTP- Sanction Letter**

Ref. No. 34-66/413/FDC/STTP/Policy-1/2019-20

Date 10 AUG 2020

From

Director,  
Faculty Development Cell,  
AICTE, New Delhi-110070

To

The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi – 110070

**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21– reg.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 305667 /- (Rupees Three Lakh Five Thousand Six Hundred SixtySeven Only)** for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY PB NO. 17 KODAKARA THRISSUR KERALA - 680 684 Kerala 680684
2.	Permanent ID of Institute	1-6023211
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. GNANA KING G.R
5.	Amount sanctioned	Rs. 305667/-
6.	Amount to be released	Rs.305667/- Full & final payment
7.	Head of account	<b>601.15(a) Gen. Short Term Training Programme (Plan)</b>
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Pedagogical SHORT-TERM TRAINING PROGRAMME (STTP) on "Outcome Based Education with Assessment and Evaluation"

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAAT13075M	SOUTH INDIAN BANK	KODAKARA BRANCH	KODAKARA	SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY	Current Account	00350730000005 31	SIBL000003 5

### Instructions/Guidelines to be followed by the University/Institution

#### I. Disbursement of funds to University/Institutions

- a. The full amount of the grant sanctioned is being released as advance to the University/Institute.
- b. The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- b. The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

#### II Maintenance of Accounts

- a. The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- 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 grants, which shall be utilized only on approved items of expenditure.
- d. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).

#### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

#### IV. Submission of Documents by the University/Institutions to AICTE

- a. The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-
  - (i) 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 self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
  - (iii) Copy of the proceedings and completion report.
  - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).
  - (v) Report submitted by Program Monitoring Committee (PMC).
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	: 55113199952
Name of the Account Holder	: Member Secretary, AICTE, New Delhi
Bank Name	: State Bank of India
Branch Name	: Shastri Bhawan, New Delhi
IFSC Code	: SBIN0050203

- c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.
- d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, 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 No. 34-66/413/FDC/STTP/Policy-1/2019-20 in your future correspondence.
- i. **Steering Committee/Project Monitoring Committee (PMC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).

The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

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

**NOTE:- Any deviation from the above will invoke serious action against the Institute.**

Yours sincerely,

(Col. B Venkat)  
Director (FDC)

10 AUG 2020

Copy forwarded for information and necessary action to: -

1. **Name and Address of the Coordinator**  
Dr. GNANA KING G.R  
SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY  
PB NO. 17 KODAKARA THRISSUR KERALA - 680 684  
Kerala680684
2. **The Registrar / Director / Principal**  
SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY  
PB NO. 17 KODAKARA THRISSUR KERALA - 680 684  
Kerala680684
3. **Guard File**

**APJ Abdul Kalam Technological University  
Thiruvananthapuram**

**Abstract**

Faculty Development Programme (FDP) for the academic Year 2020-21 - Selected - reg

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*ACADEMIC SECTION*

U.O.No. 1660/2020/KTU

Thiruvananthapuram, Dated: 25.11.2020

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*Read:-*1. Notification dated 03/02/2020

2.U.O. No. 1600/2020/KTU dated 18.11.2020

**ORDER**

Proposals were invited for conducting Faculty Development Programme for the academic year 2020-21 from Institutions / professional bodies as per reference 1 cited above.

Vide reference 2, a Committee was constituted for scrutinizing the proposals. Considering the recommendations of the Committee, sanction is accorded by the Hon'ble Vice-Chancellor for conducting the Faculty Development Programme as detailed below (List attached).

The Institutions can conduct FDPs before August 2021. In the present scenario of Covid-19 pandemic, the Institutions can organize FDPs in online mode or in offline mode.

The Colleges shall engage the classes by the expert faculty listed in the proposal. There will be scrutiny regarding the conduct of FDPs by the APJAKTU authorities. The respective course coordinators are required to submit the report of the program as mentioned in the guidelines, after the completion of the program. They are also directed to submit original bills of all transactions made during the program including honorarium, TA, refreshments, reading materials, etc. attested by the Head of the Institution and statement of accounts audited by a Chartered accountant.

Encl:

1. List of FDP sanctioned for the academic year 2020-21
2. Budgetary provisions and instructions for conducting offline mode
3. Budgetary provisions and instructions for conducting online mode.

Sd/-

Dr. Bijukumar R \*  
Dean (Academic) in Charge

Copy to:-

1. The Principals concerned
2. The Finance Officer
3. VC/PVC/Registrar/Dean(Academics)/Dean(Research)



\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



**LIST OF FACULTY DEVELOPMENT PROGRAMMES SELECTED FOR THE ACADEMIC YEAR 2020-21**

<b>CIVIL ENGINEERING</b>			
<b>SL.NO.</b>	<b>NAME OF THE HOST INSTITUTION</b>	<b>TITLE OF THE PROGRAMME</b>	<b>COORDINATORS</b>
1	ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY	Forensics in Structural and Geotechnical Engineering	Liji Anna Mathew, Assoc. Prof Sheeja M K, Asst. Prof
2	MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY	Advances in Physical and Numerical Modelling in Geotechnical & Geoenvironmental Engineering	Dr. Rajeev Kumar P, Professor
3	TOC H INSTITUTE OF SCIENCE & TECHNOLOGY, ERNAKULAM	Emerging Trends in Structural Health Monitoring Procedures	Dr. Vasudev R, Assoc. Prof Lathi Karthi
4	MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY, NALANCHIRA	Recent Trends in Design, Construction and Maintenance of Concrete Pavements	Dr. Neethu Roy, Asst. Dean(R&D) Anitha I C, Asst. Prof
5	MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY, NALANCHIRA	Recent Advances in Seismic and Wind Load Analysis of Structures	Dr. Jisha S V, Asst. Prof Bindu Biju, Asst. Prof
6	MARIAN ENGINEERING COLLEGE, KAZHAKUTTAM	DE-HAB Demolition and rehabilitation of structures	Rani V, Assoc.Prof Dr. Narayanan S, HOD
7	MES COLLEGE OF ENGINEERING, KUTTIPURAM	Techniques for Disaster Management and Climate Change Adaptation Strategies	Vidhya Kanakaraj, Asst. Prof Humaida Alhadi, Asst. Prof
8	NSS COLLEGE OF ENGINEERING, PALAKKAD	Design Thinking and Creativity for Innovation	Dr. Bharati Raj J, Asst. Prof Dr. Keerthy M Simon, Asst. Prof
9	MAR BASELIOS INSTITUTE OF TECHNOLOGY AND SCIENCE	Sustainable Building Materials and Practices	Manju George, Asst. Prof Deepthy Varkey, Asst. Prof
10	SAINTGITS COLLEGE OF ENGINEERING , KOTTAYAM	State-of-the-Art Experimental And Numerical Techniques in Civil Engineering	Dr. Anitha Joseph, Professor Pinky Merin Philip, Asst. Professor
11	MAR BASELIOS CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY, PEERMADE	Remote Sensing & GIS in Civil Engineering in the context of Recent Floods in Kerala	Dr. Manoj Nallanathel, Assoc.Profeesor & HOD Dr. Chithra, Assoc. Prof
12	KMCT COLLEGE OF ENGINEERING, KOZHIKODE	Recent Innovations in Civil Engineering	Jesmi Prakash A K, HOD
13	AMMINI COLLEGE OF ENGINEERING, MANKARA, PALAKKAD	Innovations in low cost construction technologies	Dr. Maruthu Kannan, Prinipal Anupama. S, Assistant Professor
14	FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY	Random Vibrations and its Applications in Earthquake Analysis	Dr. Asha Joseph, Assoc. Prof Dr. Unni Kartha G,Professor & HOD
15	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	Geosynthesis for Ground Improvement	Dr.Akhila M,Asst. Prof Dheeraj A D, Asst. Prof





## MECHANICAL ENGINEERING

SL.NO.	NAME OF THE HOST INSTITUTION	TITLE OF THE PROGRAMME	COORDINATORS
1	TKM INSTITUTE OF TECHNOLOGY, KOLLAM	Advances in Space Cryogenics	Dr. Jose Prakash M, Principal Ijas Nazeer, Assoc. Prof
2	LBS COLLEGE OF ENGINEERING, KASARAGOD	An Insight to Engineering Fluid Dynamics and its Applications in Industry	Dr. Aboobacker Kadengal Prof. Swaraj Kumar B
3	SAINTGITS COLLEGE OF ENGINEERING, KOTTAYAM	Nanofluidics: Theory, Experimentation, Computation and Applications	Dr. Chacko Preno Koshy, Asst. Prof Dr. Sreejith C C, Professor
4	RAJADHANI INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGAROOR	Sustainable Green Manufacturing - Industry 4.0	Dr. M D Sreekumar, HOD Mech
5	AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY, PALAKKAD	Advance Engineering Materials and Characterization Technique	Prakash D, HOD, Dept. of Mechanical Dheeraj P, Asst. Prof
6	MAR ATHANASIOUS COLLEGE OF ENGINEERING, KOTHAMANGALAM	Industry 4.0-and the Digital Supply Chain	Dr. Bobin Cherian Jos, Assoc. Prof George Mathew, Assoc. Prof
7	FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)	Emerging Trends in Advanced Production and Industrial Engineering	Dr. Rejeesh C R, Assoc. Prof
8	VIMAL JYOTHI ENGINEERING COLLEGE, KANNUR	Emergence of Cognitive Manufacturing and Industry 4.0	Dr. P Sridharan, Asst. Pro
9	COLLEGE OF ENGINEERING MUTTATHARA(CEM)	Composite Materials and Mechanics	Thajudeen A K, Asst.Prof Joshi S S, Asst.Prof
10	MARIAN ENGINEERING COLLEGE, KAZHAKOOTAM	Next Generation Adaptive Manufacturing System	Pramod Raj T P, Asst. Prpf Rahul R S, Asst. Prof
11	SREE BUDDHA COLLEGE OF ENGINEERING(SBCE), PATTOOR	Recent Development of Biopolymer and Sustainable Composites for Engineering Applications	Dr. J B Sajin, Assoc. Prof Dr. Saji Varghese, Professor
12	ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECH(SJCET),PALA	Additive Manufacturing and 3D printing	Dr. Lijo Paul, Assoc. Prof Mr. Pradeep P V, Asst. Prof



## ELECTRICAL & ELECTRONICS ENGINEERING

SL.NO.	NAME OF THE HOST INSTITUTION	TITLE OF THE PROGRAMME	COORDINATORS
1	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, THRISSUR	Recent Trends in Electric Vehicles and System Design	Dr. Vijikala V, Assoc. Prof Shimin V V, Asst. Prof
2	VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, MUVATTUPUZHA	Advancements in Systems for Electric and Hybrid Vehicles	Dr. K K Rajan, Dean, Industrial Institute Interaction Cell & Professor
3	JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Industrial Instrumentation and Automation	Dr. K Umesh, Vice Principal & HOD
4	FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY	Power Converters - An Embedded Systems Based Approach	Surya Natarajan, Asst. Prof Muhammed Noufal, Asst. Prof
5	JYOTHI ENGINEERING COLLEGE, THRISSUR	Advances in Power Electronics, conversion Techniques for Renewable Energy and Electric Vehicle Applications	Dr. Jarin T, Assoc. Prof
6	SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR	Power Systems Security and Internet of Things: A Future Energy Scenario	Vinod V P, HoD & Assoc. Prof Athira B, Asst. Prof
7	COLLEGE OF ENGINEERING, ARANMULA	Blockchain Applications in Electric Power Systems	Adil Nasser, Asst. Prof
8	MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE, ERNAKULAM	Recent Advances in Power Electronics and Power Systems	Sindhura Rose Thomas Geethu Chacko, Asst. Pof
9	THEJUS ENGINEERING COLLEGE, VELLARKKAD	Design of Photovoltaic Systems	Dr. Binu K Baby, Assoc. Prof
10	SRI VELLAPPALLY NATESAN COLLEGE OF ENGINEERING, PALLICKAL	Modern Trends in Power system and its components	Dr. Manju J, HOD



## ELECTRONICS

SL.NO.	NAME OF THE HOST INSTITUTION	TITLE OF THE PROGRAMME	COORDINATORS
1	GOV.ENGINEERING COLLEGE KOZHIKODE	Pattern Analysis Applications in Machine Vision and Listening	Dr. Shajee Mohan B S, Assoc. Prof Dr. Abdurahiman V, Asst. Prof
2	NSS COLLEGE OF ENGINEERING, PALAKKAD	Recent Advancements in Wireless Communication Technologies	Dr. Sumi M, Asst. Prof Ashok S Kumar, Asst. Prof
3	SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING, TVM	Research Perspectives of Machine Learning & deep Learning fo signal Processing Applications	Bindu V, Assoc. Prof Lakshmi V S, Asst. Prof
4	LBS COLLEGE OF ENGINEERING, KASARAGOD	LoRaWAN and IoT Applications	Dr. Mary Reena K E, assoc. Prof Reni Sam Mathew, Asst. Prof
5	ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY	Power Electronics for Electric Vehicles- Control and Challenges	Dr. Jeno Paul, Professor Deepa Sankar, Assoc. Prof
6	VIMAL JYOTHI ENGINEERING COLLEGE, KANNUR	IoT Based Autonomous Robot Design	Shinu M M, Asst. Prof Dhanoj Mohan, Asst. Prof
7	AMALJYOTHI COLLEGE OF ENGINEERING	Biomedical Instrumentation-Research Challenges	Dr. S N KUMAR, Asst.Prof, EEE Dr GODWINRAJ, Asst.Prof,ECE
8	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY, KOCHI	Artificial Intelligence and Machine Learning: Theory and Applications	Dr. Hari C V, Asst. Prof
9	AMMINI COLLEGE OF ENGINEERING, MANKARA, PALAKKAD	Computer Vision & Data Mining	Asha Arvind, Asst.Professor
10	SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY, THRISSUR	Deep Learning for Signal Processing- Basics to Implementation	Dr. Vishnu Rajan, Head,Dept.of ECE Binet Rose Devassy, Asst. Prof
11	AHALIA SCHOOL OF ENGINEERING & TECHNOLGY, PALAKKAD	Recent Trends in Artificial Intelligence and Machine Learning	Dr. V Balamurugan, Professor & HOD
12	INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, PATTOM	Chaos in Biomedical Signal Processing	N Radhakrishnan Nair, Vice Principal,SNIT Adoor
13	MAR BASELIOS CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY, PEERMADE	Emerging trends and challenges in Low Power VLSI Design	Prof. Anu Mary Mathew, Dept. of ECE
14	AL AMEEN ENGINEERING COLLEGE, SHORANUR	Recent Trends in Utilization of Renewable Energy in Engineering Applications	Dr. K Geetha Varma, Principal & HOD



## COMPUTER SCIENCE

SL.NO.	NAME OF THE HOST INSTITUTION	TITLE OF THE PROGRAMME	COORDINATORS
1	TKM COLLEGE OF ENGINEERING	BlockChains for Smarter Cities	Dr. Nadera Beevi S, Professor H A Rahulnath, Asst. Professor
2	KOTTAYAM ACM PROFESSIONAL CHAPTER	Trends, Challenges on Cyber security and Cyber Forensics	R Neenu, Treasurer, Kottayam ACM Manoj T Joy, Chair, Kottayam ACM
3	TOC H INSTITUTE OF SCIENCE & TECHNOLOGY, ERNAKULAM	Data Science for the Next Decade	Dr. N Viswanath, Prof Dr. Sreela Sreedhar, Assoc. Prof
4	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	Infrastructure and Security challenges in Cloud Computing	Dr. Anu V R, Assoc. Prof
5	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	Research Trends in Social Network Analytics	Dr. Vinod P, Professor & HOD
6	COLLEGE OF ENGINEERING, PERUMON	Emerging Trends and Development in Biomedical Engineering	Remya R, Asst. Prof Deepa K Daniel, Asst. Prof
7	MAR ATHANASIOUS COLLEGE OF ENGINEERING, KOTHAMANGALAM	Computer Architecture and Security	Linda Sara Mathew, Assoc. Prof Ani Sunny, Asst. Prof
8	MEA ENGINEERING COLLEGE, PERINTHALMANNA	Business Analytics and Data Science	Dr. Raji C G, Professor & HOD Deepa M, Asst. Prof
9	MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE, ERNAKULAM	Analysis and Implementation of Data Security on Hosts and Networks	Mahalingam P R, Asst. Prof Sreenu G, Asst. Prof
10	RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY	Data Science and Artificial Intelligence	Dr. Varghese Paul, Professor, Dept. of CSE Dr. Sherly K K, Assoc. Prof
11	ILAHIA COLLEGE OF ENGINEERING & TECHNOLOGY, MUVATTUPUZHA	Visualizing Data Science in Artificial Intelligence	Dr. Barakkath Nisha U, Assoc. Prof Nisha Shamsudin, Asst. Prof



12	JOHN COX MEMORIAL CSI INSTITUTE OF TECHNOLOGY, KANNAMMOOLA	Artificial Intelligence with Deep Learning	Reji John, HOD Dhanya L, Asst. Prof
13	ST.JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY,PALAI	Practical Data Science	Dr. Praseetha V M, Assoc. Prof
14	COLLEGE OF ENGINEERING, ARANMMULA	Deep Learning Applications in Speech Signal Processing	Anuradha P, Asst. Prof Divya S, Asst. Prof
15	KMCT COLLEGE OF ENGINEERING, CALICUT	Recent Trends in Machine Learning	Mr. Swaradh P, HOD
16	MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY	Business Intelligence, Applications and Tools	Usha Gopalakrishnan, Associate Professor Simi I, Associate Professor
17	SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY, THRISSUR	Cyber Security and Cyber Forensics	Dr. R Satheesh Kumar, Assoc. Prof
18	St. THOMAS COLLEGE OF ENGINEERING AND TECHNOLOGY, CHENGANNUR	Internet of Things(IoT)	Dr. Sheeja Kumari, Professor Sithu Ubaid, Asst. Prof
19	TOC H INSTITUTE OF SCIENCE AND TECHNOLOGY,ERNAKULAM	Recent Developments in Machine Learning and Data Science	Dr. Gnana Sheela K, Assoc. Prof
20	VEDAVYASA INSTITUTE OF TECHNOLOGY, MALAPPURAM	Research Trends in Socially Relevant Technical Education: Challenges & Impacts	Dr. Sangeetha, Professor Dr. S Kavitha Murugesan, HOD
21	JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Emerging Space Technology in the Field of Computer Science	Shyjith M B, Asst.Prof, CSE
22	MES COLLEGE OF ENGINEERING, KUTTIPURAM	Smart Computing Technologies and Applications	Dr. Anil K Jacob, Professor
23	UKF COLLEGE OF ENGINEERING AND TECHNOLOGY, PARIPPALLY	Machine Learning and Deep Learning Using Python	Jithin Jacob, Asst. Prof
24	CHRIST COLLEGE OF ENGINEERING, IRINJALAKUDA	Research Frontiers in Computer Science	Dr. Remya K Sasi, HOD Prasanth K Baby
25	UNIVERSITY COLLEGE OF ENGINEERING, THODUPUZHA	Blockchain Technologies	Jincy Annie V V, Asst. Prof



## INTERDISCIPLINARY

SL.NO.	NAME OF THE HOST INSTITUTION	TITLE OF THE PROGRAMME	COORDINATORS
1	MOUNT ZION COLLEGE OF ENGINEERING	High Performance Computing	Dr. K Mathew, Professor & Principal Siji A Thomas, Asst. Prof
2	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, KODAKARA	Biosensors in point-of-care Diagnostics: Strategies and Implementation	Dr. Jeethu Raveendran, Dept. of biomedical Dr. Dhanya Gangadharan, Dept. of Biotechnology
3	AMAL JYOTHI COLLEGE OF ENGINEERING KANJIRAPALLY	E-mobility: Prospects and Challenges	Abin Mathew Nixon Poullose
4	COLLEGE OF ENGINEERING, PATHANAPURAM	Recent Trends in Robotics & Hands-on Session in DIY Robotics using Arduino	Sreesh P S, Asst. Prof Vivek Raju, Asst. Prof
5	JYOTHI ENGINEERING COLLEGE, THRISSUR	Design of Experiments and Optimisation Techniques	Dr. Deepanraj B, Assoc. Prof Dr. Biju C V, Assoc. Prof
6	LBS COLLEGE OF ENGINEERING, KASARAGOD	Deep Learning for Image & Video Applications	Dr. Arathi T, Asst. Prof Nishanth Augustine, Asst. Prof
7	SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING, KOLENCHERY	Applied Engineering in Environmental Protection: Relevance of Green Technology	Dr. Suprabha T, Professor Gisha G R, Asst. Prof
8	NSS COLLEGE OF ENGINEERING, PALAKKAD	Art and Skill of Writing Research Publication	Dr. Sreelekshmy Pillai G, Assistant Professor R Sajitha Nair, Assistant Professor
9	MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE, ERNAKULAM	Mathematical Foundations for Artificial Intelligence and Machine Learning	Dr. K Meena, Assoc. Prof Lija Ponnappan, Asst. Prof
10	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	Developing Technologies for a Sustainable Mobile Society	Dr. Manoj Kumar B, HOD
11	SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR	Mathematical Foundations for Machine Learning	Asha S, Asst. Prof Lakshmi S, Asst. Prof
12	ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI	Artificial Intelligence and Data Science	Dr. V P Devassia, Prof Sabarinath G, Asst. Prof



13	JAWAHARLAL BUSINESS SCHOOL, PALAKKAD	Trends and Challewnges in Digital Business Innovation	K S Sreejamol, Asst. Prof R Suma, Asst. Prof
14	NSS COLLEGE OF ENGINEERING, PALAKKAD	Art of Student Centric Teaching	Dr. Viji Rajendran V Dr. Maya Mohan
15	TKM INSTITUTE OF TECHNOLOGY, KOLLAM	Recent Research Trends in Biomedical Engineering	Dr. Hariharan S, Professor Dr. Unni C, HOD
16	MES COLLEGE OF ENGINEERING, KUTTIPURAM	Entrepreneurship and Essential Skills for Innovation	Dr. Rahumathunza I, Professor Padmakumar K, Asst. Prof
17	TRINITY COLLEGE OF ENGINEERING,TVM	Faculty Entrepreneurship:Potential and Challenges	Dr. Vipin Gopan, Asst. Prof Deepu Sanjeev, Asst. Prof
18	MAR ATHANASIOUS COLLEGE OF ENGINEERING, KOTHAMANGALAM	Sustainable Engineering Practices in Agriculture and Automotive Industry	Dr. Sidharth Shelly, Asst. Prof Dr. Jinsa Kuruvilla, Asst. Prof
19	SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING, KOLENCHERY	Ethics in Profession and Student Psychology	Dr. Reshmila S, Prof Aruna T A, Asst. Prof
20	AMAL JYOTHI COLLEGE OF ENGINEERING KANJIRAPALLY	Mentoring and thinking skills for Engineering faculty	Dr. Juby Mathew, Associate Professor Rev.Fr.Rubin Thttupuram, Associate Professor
21	MOHANDAS COLLEGE OF ENGINEERING & TECHNOLOGY, ANAD	Deep Learning and Neural networks	Divya H, Asst.Professor, ECE
22	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, KODAKARA	Outcome Based Education with Assesment and Evaluation	Dr. G R Gnana King, Assoc. Prof
23	SAINTGITS COLLEGE OF ENGINEERING, KOTTAYAM	Econometrics - Time Series Modeling and Forecasting	Dr. Jose Joy Thoppan, Assoc. Prof Ms. Bilin Baby Elizabethu, Asst. Prof
24	MGM COLLEGE OF ENGINEERING AND TECHNOLOGY, PAMPAKUDA	Green Energy: Conservation and Management	Dr. Dhanya G, Asst. Prof Soby Abraham, Asst. Prof
25	TOC H INSTITUTE OF SCIENCE & TECHNOLOGY, ERNAKULAM	Robotics and Artificial Intelligence	Dr. Deepa Elizabeth George, Assoc. Prof & HOD, Dept.of ECE Dr. Vinu. R, Asst. Prof



26	ADI SANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY	Robotics and Control	Dr. N Hariharan, Professor & PG Dean, Dept of ECE Mrs. Sreepriya S, Assoc. Prof, Dept. of Applied Electronics
27	COLLEGE OF ENGINEERING, PATHANAPURAM	Short Term Training Programme on Energy Management & Auditing	Mr. Anas S R, Asst.Prof Mrs. Nisha Kuriakose, Asst. Pof
28	VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, MUVATTUPUZHA	Supply Chain Modelling and Logistics Management	Dr. Sajan T John, Assoc. Prof
29	SREE NARAYANA INSTITUTE OF TECHNOLOGY(SNIT), ADOOR	Contemporary Management Practices and Applicationd on Sustainable Development	Dr. Suma S R, HOD-MBA
30	COLLEGE OF ENGINEERING MUTTATHARA(CEM)	Energy Management and Energy Audit	Rahul Charles C M, Asst.Prof Arun M S, Asst.Prof, EEE
31	MES INSTITUTE OF TECHNOLOGY & MANAGEMENT, CHATHANOR	Recent Trends in Mechanical Engineering using Machine Learning	Anoop P S, Asst. Prof Rafi A, Assoc. Prof
32	SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING,PAPPANAMCODE	Technological Interventions in Water Resources Management	Biju Jacob, Asst. Prof
33	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, KODAKARA	Embedded System and IOT in Biomedical Applications (ESIBA)	Dr. Finto Raphel, Assoc. Prof Ms. Remya George, Asst. Prof
34	AMAL JYOTHI COLLEGE OF ENGINEERING, KOTTAYAM	Statistical tools and techniques for scientific research	Dr. Joby George, Assistant Professor Mr. Tenny Thomas, Assistant Professor
35	BASELIOS MATHEWS II COLLEGE OF ENGINEERING	Skill sets requirements and research opportunities in Industrial Revolution 4.0	Dr. V T Gopakumar, Dean Dr. L Padma Suresh, Principal
36	COLLEGE OF ENGINEERING PERUMON	Robotics & Control	Mr. Abilash R S, Asst. Prof Mrs. Edwina G Rodrigues, Asst. Prof
37	RAJADHANI INSTITUTE OF ENGINEERING AND TECHNOLOGY	Entrepreneurial Strategies and Development; Role of Science, Technology and Business	Dr. Priya Prasad, Assoc. Prof,RBS Dr. Rajesh S Pyngavil, Professor & HOD RBS
38	MEA ENGINEERING COLLEGE, PERINTHALMANNA	Sustainable Solid Waste Management	Dr. Hema Nalini A V, Prof & HOD Noushad K, Asst. Prof





39	SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING, PAPPANAMCODE	The Art Gallery of Engineering Graphics	Dr. Anilkumar S H, Professor Sri. Arun M
40	TKM INSTITUTE OF TECHNOLOGY, KOLLAM	Data Analytics using R	Revathy N, Asst. Prof Jomy George, Asst. Prof
41	MES COLLEGE OF ENGINEERING, KUTTIPURAM	Application of Artificial Intelligence in Industry 4.0	Dr. Thasneem Fathima N K, Assoc. Prof Dr. Renuka T K, Asst. Prof
42	COLLEGE OF ENGINEERING, PERUMON	Optimization Techniques	Shamnad M, asst. Prof Sony R, Asst. Prof
43	COLLEGE OF ENGINEERING, ATTINGAL	Hands on workshop on Machine Learning algorithms	Leena Silvester M, Asst. Prof
44	NSS COLLEGE OF ENGINEERING, PALAKKAD	Research Methodology, Hands on training of Research Tools	Dr. Anish M N, Assoc. Prof Indu T, Asst Prof



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

PROCEEDINGS

APJAKTU - Academic - Faculty Development Programme - Administrative Sanction Accorded - Orders issued.

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**Academic Section**

No: KTU/ASST(ACADEMIC)/1959/2018

Dated, , 30.04.2018

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Read:- 1.Minutes of the Fifteenth Executive Committee Meeting held on 30.08.2017.

ORDER

Meeting of the Executive Committee held on 30.08.2017 vide the Agenda item No EC-015-006 has approved the guidelines for the conduct of Faculty Development Programme and resolved to invite proposals from affiliated colleges and other agencies to conduct the programme.

Rules and Regulations for conducting FDP are

1. As far as possible the FDPs are to be scheduled during the semester breaks without disturbing the normal academic activities and to ensure maximum faculty participation.
2. It is mandatory to have a fixed batch of 30 participants in each programme. Number of participants from the host institute is limited to 1/3<sup>rd</sup> of the total number of participants. The rest of the participants should be from other KTU affiliated colleges.
3. There should be minimum 6 hour training per day, excluding tea and lunch break.
4. It is compulsory for the participants to attend all the sessions of the programme. Otherwise the participant's certificate will not be awarded.
5. It is mandatory to submit the brief C. V of the resource persons highlighting their contribution in the concerned subject of FDP.
6. Minimum 50% of the resource persons should be from outside the host institute.
7. Honorarium to faculty/ External experts is limited to Rs.1000/ hour.
8. Honorarium to Faculty/ External Experts from IIT/ IIM/ National Institutes is limited to Rs.5000/- per day.
9. TA / Accommodation to external experts are as per University rules.
10. Local conveyance to resource persons is limited to Rs.1000/ day.
11. Honorarium to centre coordinator and course coordinator is Rs.3000/ day. This amount should be shared between them.
12. Honorarium to technical assistants for venue arrangements, purchase assistance, data entry etc. is limited to Rs 2000/day, applicable during the duration of the programme.
13. Stationeries, consumables, certificates printing, report printing, photography etc. is limited to Rs 15000/- per course.
14. Course / Training materials (Soft / hard copy / text book) is limited to Rs 1000 /- per



participant.

15. Working lunch and refreshments is limited to Rs250/- per day per participant.
16. Miscellaneous – Limited to Rs 10000/- per course.
17. The host institute may provide accommodation facility to the participants, if available. The charges if any, for this have to be borne by the participants themselves.
18. It is mandatory to provide the soft copies of the presentations made during the FDP to the participants.
19. If necessary, the host institute can collect nominal registration fee from participants subject to a maximum of Rs 500/ per participant.
20. After the completion of the programme the respective course coordinators are required to submit the hard as well as soft copy of the report of the programme to the University within 15 days of the completion of the programme. The report must include the participant list, registration forms, attendance sheet, feedback forms of the participants, media coverage of the programme, complete details of the resource persons, one group photo, soft copy of the presentations made during the programme and original bills of all transactions made during the programme including honorarium, TA, refreshments, reading materials etc. attested by the Head of the Institution.
21. **The payments will be in the form of reimbursement of the expenses based on the statements of accounts subject to a maximum amount of Rs 1.5 lakhs for 3-day programme and Rs 2 lakhs for 5-day programme.**

**The Joint Director ( Academic) is authorised to scrutinise and sanction the bills and vouchers submitted in connection with the FDP programme.**

Orders are issued accordingly.

*Sd/-*

Dr. J. SREEKUMAR \*  
Dean (Academic)

To

1. The Finance section.
2. Smt.Praseeda Lekshmi , Joint Director
- 3.SF/FC.

\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.





# APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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File Ref.No.KTU/ASST6(ACADEMIC)/3139/2020

## APJ Abdul Kalam Technological University Thiruvananthapuram

### Abstract

APJAKTU - Academic - Faculty Development Programme conducted through online-Administrative Sanction Accorded

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### ACADEMIC SECTION

U.O.No. 1352/2020/KTU

Thiruvananthapuram, Dated: 30.09.2020

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*Read:-*UO No. KTU/ASST(ACADEMIC)/1959/2018 dated 30.04.2018

### ORDER

Meeting of the Executive Committee held on 30.08.2017 vide the Agenda item No EC-015-006 has approved the guidelines for the conduct of Faculty Development Programme (FDP) and FDPs are being conducted as per the guidelines in the order read above. During the current situation of COVID 19 pandemic Hon'able Vice Chancellor has approved the guidelines for the conduct of Faculty Development Programme through online mode

- Each program should have 50 to 60 participants. Number of participants from the host institute is limited to 20 and the rest of the participants should be from other APJAKTU affiliated institutions.
- There should be minimum 6 training hour per day.
- It is compulsory that the participants shall attend all the sessions of the program. Otherwise the participant's certificate will not be awarded. Copy of the attendance statement and feedback forms shall be submitted to the University.
- Minimum 70% of the resource persons should be from outside the host institute.
- Honorarium to faculty/external experts is limited to Rs 1000/- hour and the honorarium to faculty from IIT/IIM/National Institutes is limited to Rs 5000/- per day.
- Honorarium to centre coordinator and course coordinator is Rs. 2000/- per day. This amount should be shared between them.
- Miscellaneous expenses are limited to Rs.1000/- per day. (including printing, stationary and consumables)
- Registration to the programme shall be done through online. However, permission letter from the respective Head of the institution should be obtained for participation.
- Online certificates can be issued to the participants. The certificates shall contain unique certificate number. The details of the certificates issued shall be intimated to



the University along with the claim form.

- It is mandatory to provide the soft copies of the course materials / presentations made during the FDP to the participants (through email)
- There will be random inspection/verification by the University to evaluate the FDP conduction process and other details. Hence online link of the programme should be send to academics@ktu.edu.in, well in advance
- The Joint Director (Academics) is authorized to scrutinise and sanction the bills and vouchers submitted in connection with the FDP programme.

Institutions can also conduct FDP in the normal mode, as per the guidelines mentioned in the order read above, after the Covid restrictions end.

Orders are issued accordingly.

*Sd/-*

Dr. Bijukumar R \*  
Dean (Academic) in Charge

\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

