

National Level Workshop on Internet of Things (IoT)

Sponsored by AICTE Training And Learning (ATAL) Academy
and

Organized by Department of Computer Science, Central University of Kerala
16th -20th October 2019

About the University

The Central University of Kerala, Kasaragod, came into being in 2009 under the Central Universities Act 2009 (Parliament Act No. 25 of 2009). The University is founded on the noble vision of a 'caring wisdom' and is guided by the lofty ideals of academic and social commitment, moral steadfastness and intellectual and spiritual enlightenment, as reflected in its vision statement. Located in a region characterized by linguistic and ethnic diversity and cultural richness, the University seeks to harness the local resources – human, intellectual, social, artistic and cultural – while bringing in the best that is globally available, thus maintaining a fruitful, symbiotic relationship with a region that badly needs an educational uplift.



About the Department

The Department of Computer Science started functioning in Aug 2011 with Dr. E Balagurusamy, former Vice Chancellor, Anna University, Chennai, formally inaugurating its activities. Since its inception, the Department has been organizing a host of curricular and co-curricular activities aiming at the academic enrichment of the students and faculty. The Department offers MSc Computer Science with specialization in Intelligent Systems. The Department also offers a PhD programme in Computer Science. The courses are designed with the objective of equipping the students for the IT industry and for streamlining them for taking up research in Intelligent Systems.

Coordinator:

Dr. Rajesh R., Associate Professor and Head,
Dept. of Computer Science, Central University of Kerala, Periya, Kasaragod, Kerala
Mobile – 09894850299 Email: rajeshr@cukerala.ac.in

Patrons:

Prof. Dr. G. Gopakumar (Vice Chancellor),
Prof. Dr. K. Jayaprasad (Pro-Vice Chancellor),
Prof. Dr. M. R. Prathapachandra Kurup (Dean, School of Physical Science)

Organizing Committee:

Dr. Thasleema T.M., Mr. Kumar V., Dr. Manohar N.S., Mr. Fasil O.K., Mrs Shabina Baskar, Mrs Adithya V.

Technical and Logistic Support:

IEEE Student Branch, Central University of Kerala

National Level Workshop on Internet of Things (IoT)

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Objectives

The objective of this course is to impart necessary and practical knowledge of components of Internet of Things and develop skills required to build real-life IoT based projects.

Learning Outcomes

After the completion of this course, the students will be able to:

- Understand internet of Things and its hardware and software components
- Interface I/O devices, sensors & communication modules
- Remotely monitor data and control devices
- Develop real life IoT based projects

Targeted Audience

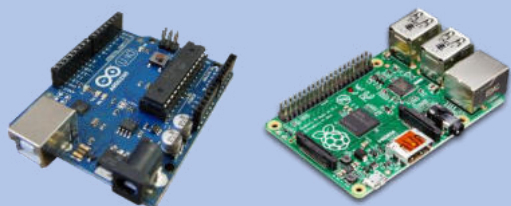
The participants to the course will be faculty & Ph.D Scholars from University and technical institutions. Seats are limited to 50. Those who are interested may express their willingness by sending email to rajeshr@cukerala.ac.in

Other Details

There is no Registration fee from any participant. No TA/DA will be paid to any participant. Participants will have to make their own stay arrangement during the five days. Tea and working lunch will be provided to the participants. On completion of the programme on all the days, participants will be awarded a Certificate of participation.

Schedule plan

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
16/10/2019	Registration and Inauguration	High Tea	Session 1 Introduction to IoT	Lunch	Session 2 Applications of IoT	Tea
17/10/2019	Session 3 Architecture of Arduino	Tea	Session 4 Programming with Arduino	Lunch	Session 5 Hands on session on Arduino	Tea
18/10/2019	Session 6 Architecture of Raspberry Pi	Tea	Session 7 Programming with Raspberry Pi	Lunch	Session 8 Hands on session on Raspberry Pi	Tea
19/10/2019	Session 9 MySQL database on Raspberry Pi	Tea	Session 10 Bluetooth applications in Arduino/ Raspberry Pi	Lunch	Session 11 Hands on session on Bluetooth applications	Tea
20/10/2019	Session 12 Temperature/humidity experiments with IoT	Tea	Session 13 Uploading and retrieving data from cloud using IoT	Lunch	Session 14 Future trends and applications	Valediction





अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(A Statutory Body of the Govt. of India)
CET Campus , SWRO
Thiruvananthapuram - 695016



AICTE TRAINING AND LEARNING (ATAL) ACADEMY
CET Campus, Thiruvananthapuram-695016
Phone: 0471-2592323, 4343, 6363, 7099
email: ataltrv@aicte-india.org
Website: www.aicte-india.org/atal

F.No. 1-153/AICTE/KERALA/2019

02.10.2019

To

The Registrar,
Central University of Kerala
Periye - 671316, Kasaragod

Sub: Release of a sum of Rs 1,62000 /- for AICTE Training And Learning (ATAL) Academy programme– Reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 162000 /- (Rupees **One Lakh Sixty- Two Thousand Only**) for conduct of **AICTE Training And Learning (ATAL) Academy programme Internet of Things to Department of Computer Science, Central University of Kerala, Periye - 671316, Kasaragod** Scheduled on **16-10-2019** under 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/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- 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.
- The cost for conducting per programme will be Rs.1,62,000/- as per detail given as under:

S.No	Particulars	Amount
1.	Honorarium for Director	Rs. 10,000/-
2.	Honorarium to Co-ordinator Rs.2000/- per day x 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Refreshment & Lunch (Rs. 300 per head for 50 trainees for 5 days)	Rs. 75,000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 10,000/-
	TOTAL	Rs, 1,62,000/-

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed Performa to be submitted by the University/College/Institution.

II. Disbursement 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/Institute after submission of mandate form

III. 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 attended the program without any absenteeism and scored minimum 60% marks in the test.



सूचना का
अधिकार

IV. Submission of documents by university/institution

- 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) 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 with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training And Learning (ATAL) Academy programme.**
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.

V. General Instructions

- a. Participants has to be faculty of AICTE approved institutions /HostInstitution / Research Scholar/ PG Scholar.
- b. If programme is not conducted in the year 19-20, the released amount, along with interest accrued thereon, has to be returned back to AICTE.
- c. 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.
- d. Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing AICTE Training And Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, 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 favor of the beneficiary institution shall be refunded immediately to the Council.
- e. This Sanction Order may be treated as Offer Letter for all purposes.



Yours sincerely,



Director ATAL Academy
Trivandrum

Copy forwarded for information and necessary action to: -

1. Dr. Rajesh R., Dept of Computer Science, Central University of Kerala.
2. ATAL Academy Cell AICTE HQ
3. Guard File



REPORT

**FIVE DAYS NATIONAL
WORKSHOP ON
INTERNET OF THINGS**

16th - 20th October 2019 at Central University of Kerala

AICTE TRAINING AND LEARNING ACADEMY, TRIVANDRUM

INTERNET OF THINGS

AICTE Training and Learning (ATAL) academy sponsored Five Days National Workshop on Internet of Things has been organized by Central University of Kerala from 16th October 2019 to 20th October 2019 in which out of 89 registered participants, 78 participants attended the workshop.

The speakers for the 5-day workshop on “INTERNET OF THINGS” were:

Dr. J. Satheeshkumar, Associate Professor, Dept of Computer Applications, Bharathiar University, Coimbatore



Dr. J. Satheeshkumar is currently working as an Associate Professor in the Department of Computer Applications, Bharathiar University, Coimbatore. He has more than 14 years of teaching and research experience. He is an expert in the field of image processing, medical imaging, networking and internet of things. He has been an invited speaker for more than 100 conference/workshops. He has organized several conferences, workshops and seminars. He has more than 50 research publications in journals and conference proceedings. He has successfully guided 5 PhD students in the areas of image processing and internet of things. He is a member of IEEE.

Mr. Arjun Udayakumar, Senior Embedded Developer, Quolabs, Thiruvananthapuram



Mr. Arjun Udayakumar is currently working as a senior embedded developer at Quolabs, Thiruvananthapuram. He has conducted a lot of embedded system seminar across Kerala. He has his degrees in electronic and communication engineering and electronics production technology from Cochin University of Science and Technology and Govt. Polytechnic College (Cherthala) respectively. He is a member of IEEE and IEEE young professional.

Mr. Fasil K.V., IOT Developer, Quolabs



Mr. Fasil K.V. is currently working as an IOT Developer at Quolabs, Thiruvananthapuram. He has wide experience in delivering invited talks and conducting IOT workshop throughout Kerala. He is a member of IEEE and IEEE young professional.

Mr. Nithin P.S., CEO of Quovadis Robosoftech, Thiruvananthapuram



Mr. Nithin P.S. is the chair of IEEE Young Professional, IEEE Kerala Section. He has experience in organizing fully IEEE funded international conference inside and outside India. He is the CEO of Quovadis Robosoftech. He is an expert in the field of IOT and embedded systems.

Dr. Rajesh R., Associate Professor and Head, Department of Computer Science, Central University of Kerala



Dr. Rajesh R. is currently working as an Associate Professor in the Department of Computer Science, Central University of Kerala. He has more than 14 years of research and teaching experience. He has delivered more than more than 60 invited talks in various institutions. He has published more than 80 papers in various journals and conference proceedings. His specializations include Intelligent systems, control, fuzzy systems, neural networks, deep learning, image processing nature inspired computing, evolutionary algorithms, IOT. He is a senior member of IEEE and IEEE Computational Intelligence Society.

The Department of Computer Science, Central University of Kerala has organized 5 days national workshop on internet of things sponsored by AICTE Training and Learning Academy (ATAL) during 16-20 October 2019. The coordinator/organizing secretary was Dr. Rajesh R, Associate Professor and Head, Department of Computer Science, Central University of Kerala. The purpose of this workshop was to motivate and train the participants on topic of Internet of things with some hands-on experience. Out of 89 registered participants, 78 participants attended the workshop.

The workshop started with a prayer song. The welcome address was delivered by Mr. Kumar V., Assistant Professor, Department of Computer Science, Central University of Kerala. A special address briefing the need and necessity of Internet of things was provided by the chair of the workshop, Dr. Rajesh R. The Programme was inaugurated by Prof. (Dr.) M.R. Prathapachandra Kurup, Dean of School of Physical Sciences, Central University of Kerala by lighting the lamp and delivering the inaugural address. The keynote address was

ATAL Five day's National workshop on Internet of Things

delivered by Dr. J. Satheeshkumar, Associate Professor, Department of Computer Science, Bharathiar University. The inaugural session ended by the delivery of vote of thanks by Dr. Thasleema T.M.



ATAL Five day's National workshop on Internet of Things

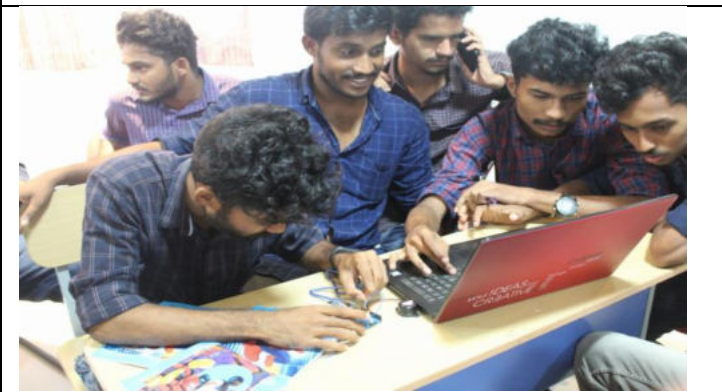
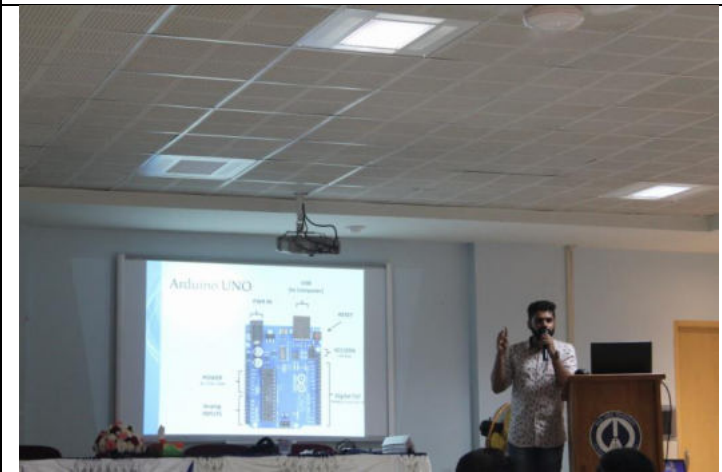
The first session of the workshop was on the topic of “Introduction of IoT” and was delivered by Dr. J. Satheeskumar. He started with a brief history of internet of things. He discussed about the evolution of internet of things. He also discussed about the various components of Internet of things. The major challenges of internet of things, including its security aspects were also pointed out by the speaker. He wound up the first session by showing the various application/research possibilities of internet of things.

The second session of the workshop was on the topic of “Applications of IoT“. He showed some real implementation of some of the IOT kits using Arduino with applications in agriculture.



In the second day of the workshop, all the three sessions were handled by Mr. Arjun Udayakumar, Senior embedded developer, Quolabs. He covered the following topics: (i) introduction to microprocessors and micro controllers, (ii) architectures of arduino uno and arduino nano (including its chips, register sizes, memory etc.), (iii) architecture of raspberry pi and raspbian OS., (iv) programming logics on Arduino software, (v) hands on training sessions (experiments with led blinking, buzzer, LM35 sensor, LDR sensor, ultrasound sensor).

ATAL Five day's National workshop on Internet of Things



ATAL Five day's National workshop on Internet of Things

All the sessions of the third day of the workshop was handled by Mr. Fasil K.V., IOT developer, Quolabs. His hands-on sessions were on programming on Proteus Simulation software. He provided hands on experiments using arduino and the Proteus simulation software on (i) blinking the led, (ii) usage of buzzer, (iii) usage of LM35, (iv) usage of switch, (v) programming with sending and receiving values through serial communications.



All the sessions on the fourth day of the workshop was handled by Mr. Fasil K.V., IOT developer, Quolabs. He provided a talk on the architecture of Raspberry Pi. He also provided hands on experiments on (i) Installation of Raspbian OS, (ii) programming with Raspberry Pi, (iii) led blinking on Raspberry Pi, (iv) buzzer on Raspberry Pi, (v) usage of sensors on Raspberry Pi.

ATAL Five day's National workshop on Internet of Things



On the fifth day the first two sessions in the morning was handled by Nithin P.S. In these sessions he demonstrated and provided hands on in remotely controlling the Sensors on Arduino through internet by mobile device with BLYNK software. The afternoon session was on various extended research possibilities on IOT by Dr. Rajesh R.



ATAL Five day's National workshop on Internet of Things



An examination with duration of 30 mints has been conducted. The valedictory function was chaired by Dr. Rajesh R. A feedback session was also arranged. During the valedictory function the certificate were distributed to the participants.

During the conclusion oral and written feedback from the participants were collected. Both in the oral and written feedback the conduction of the workshop was well appreciated by the participants. Formally the function was concluded by rendering vote of thanks by Dr. Rajesh R., the coordinator of the program.



ATAL Five day's National workshop on Internet of Things





News cuttings.



AICTE - ATAL PROGRAM : ATTENDANCE SHEET

Institute Name- Central University of Kerala		Coordinator's Name - Dr. Rajesh R.		Thrust Area- Internet of Things	
Institute Address- Central University of Kerala, Periya – 671320, Kasaragod		Date of Program- (16/10/2019 to 20/10/2019)		Course code- ATVR0113	
S.No.	Name of Participant (In CAPITAL LETTER)	Category(Faculty/ Research Scholar/ PG Student)	Participant's Institute	Mobile No.	Email address
1.	Premkumar P.	Faculty	K.S.R. Institute of Engineering and Technology, Tamilnadu	9952515453	premece@live.com
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3.	Dr.T.Srihari	Faculty	K.S.R. Institute of Engineering and Technology, Tamilnadu	9442102071	k.t.srihari@gmail.com
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74.	Dr. Thasleema T.M.	Faculty	Central University of Kerala	9497295948	thasleema@cukerala.ac.in
75.	Rathin Kumar	IT Technical Assistant	Central University of Kerala	8943892428	rathinkumar100@gmail.com
76.	Dhanya Gopi K.C	IT Technical Assistant	Central University of Kerala	9849969503	dhanya3@gmail.com
77.	Sreelesh V.	System Analyst	Central University of Kerala	8547923538	sreeleshv@cukerala.ac.in
78.	R Rajesh	Faculty	Central University of Kerala	9894850299	rajeshr@cukerala.ac.in

AICTE Training And Learning(ATAL) Academy Programme

FORMAT FOR STATEMENT OF EXPENDITURE

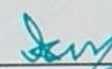
AICTE File No. : 1-153/AICTE/KERALA/2019

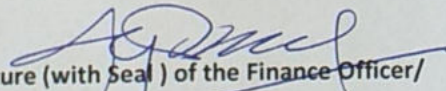
Title of the Programme : Internet of Things

Name of the Coordinator : Dr. Rajesh R.

<u>Sanction No. and Date</u>	<u>Grant Sanctioned</u>	<u>Details of expenditure Incurred Itemwise</u>	<u>Amount Rs. (in each head)</u>	<u>No. of Participants</u>	<u>Duration of the Programme (with dates)</u>
1-153/AICTE /KERALA/ 2019 2 th Oct 2019	1,62,000	1. Honorarium to the Director	10,000	78	5 days 16 th – 20 th October 2019
		2. Honorarium to Course Coordinator	10,000		
		3. Honorarium to Resource Persons	42,000		
		4. Refreshment & Lunch	75,000		
		5. Institutional Charges	15,000		
		6. Miscellaneous Charges	10,000		
		Total	1,62,000		
		Grant Received	1,62,000		
		Balance to be Received		Nil	

(1) 
HEAD
 Department of Computer Science
 School of Mathematical & Physical Sciences
 Central University of Kerala
 with Seal, Jaswini Hills, Periyar - 671316
 Kasaragod, Kerala

(2) 
 डॉ. ए. राधाकृष्णन नायर
 A. RADHAKRISHNAN NAIR
 Name and Signature of
 Head of Institution with Seal
 केरल केंद्रीय विश्वविद्यालय
 TEJASWINI HILLS, PERIYA P.O
 KASARAGOD / KASARAGOD-671316

(3) 
 Signature (with Seal) of the Finance Officer/
 Auditor/Accounts Officer
 (If it is Govt./Govt. Aided Institute)

डॉ. वि. आर. प्रसन्न कुमार
 Dr. B.R. Prasanna Kumar
 वित्त अधिकारी / Finance Officer

(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

CENTRAL UNIVERSITY OF KERALA, PERIYA – 671320, KASARAGOD

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR (2019-20)

Name of the Scheme under which Grant was sanctioned: AICTE Training and Learning Academy
(to be submitted separately for each sanction order)

AICTE File No. : 1-153/AICTE/KERALA/2019

Name of Co-ordinator : Dr. Rajesh R.

Dates of the Programme : 16th – 20th October 2019

Title of the ATAL Programme : Internet of Things

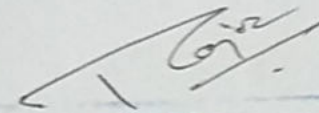
Sl. No.	AICTE Sanction Order/ Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1.	1-153/AICTE /KERALA/ 2019 2 nd Oct 2019	1,62,000	Certified that out of the grant-in-aid of Rs. 1,62,000 (one lakh and sixty two thousand) sanctioned by the AICTE during the financial year 2019 in favour of Central University of Kerala as per letter mentioned in the margin, Rs. 0 (Zero) on account of unspent balance of previous year, Rs. 0 (zero) on account of other income / receipts, a sum of Rs. 1,62,000 has been utilized for the purpose for which it was sanctioned and the balance of Rs. 0 (zero) 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 duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -

- Audited Annual Accounts of the Institute
- Receipt and Payment account
- Periodical Progress Reports.

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

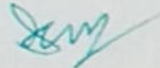

HEAD
Department of Computer Science
School of Mathematical & Physical Sciences
Central University of Kerala
Tejaswini Hills, Periyar - 671316
Kasaragod, Kerala

2). Signature of Chartered Accountant:

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

(3). Signature of Head of the Institute:

Name & Designation of the Head of Institute:
Rubber stamp:
Full Address:
Date:


REGISTRAR
CENTRAL UNIVERSITY OF KERALA
तेजस्विनी हिल्स, परीयर हाउस
TEJASWINI HILLS, PERIYA P.O
KASARAGOD KASARAGOD-671316

(4). Signature of the Finance Officer/Accounts Officer:

Name of the Finance Officer/Accounts Officer:
(If it is Govt./Govt. Aided Institute)

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