Prof. Vineet Kansal
Dean UGSE

Dr. A.P.J. Abdul Kalam Technical University,
Uttar Pradesh, Lucknow

Sector-11, Jankipuram Extension, Lucknow
Mobile: 8920585138, E-mail: dean.ugse@aktu.ac.in, Fax: (0522) 2732189

Ref.: AKTU/DEAN UG/2018/072

Dated: 10 Oct 2018

To

The Directors / Principals
Engineering Institutions / Colleges affiliated to
Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow

Subject: **Invitation for expression of interest for attending International Telecommunication Union Training Programme on "IoT Technologies and Applications for Smart Cities" being organized to conducted at ALTTC Ghaziabad.**

Dear Sir/ Madam

It is to share that Advanced Level Telecom Training Centre (ALTTC), is going to conduct face-to-face ITU Asia-Pacific Centre of Excellence Training Programme on **"IoT Technologies and Applications for Smart Cities" from 29th Oct – 02nd Nov 2018 at ALTTC, Ghaziabad** under the auspices of ITU- a part of United Nations, in association with Ministry of Electronics and Information Technology (MeitY), India; C-DOT (Centre for Development of Telematics) India and Faculty of Applied Science of Post and Telecommunication (ICT Faculty), Iran. The relevant details of course contents are enclosed at Annexure-I and other relevant details are available at Annexure-II.

You are requested to submit the expression of interest from faculty members of your institute (through proper channel with consent of institute Director/ Principal) by filling up Google form at following link, latest by 12/10/2018 (05:30 PM) : https://tinyurl.com/IoT-Techno-ALTTC

Responses submitted by faculty members from affiliated institutes shall be screened by a screening committee of the University and total 10 nos of faculty members will be selected based on the same. Please note that University (AKTU, Lucknow) shall reimburse the registration fee of Rs 18,700/- for selected 10 numbers of faculty members. However, any other expenses i.e. TA/DA, food, lodging etc. shall be borne by the participants.

Also the selected faculty members are required to submit an undertaking to the University on following points:
1)	Confirm to work as resource person in future FDP/ workshops related to similar area
2)	Confirm to work as mentor for faculty and students willing to work in similar area
3)	Confirm to take minimum 2 expert lectures of 3:00 hrs each for students of nearby Engineering College under AKTU on similar subject

Thanking you.

With Warm Regards

(Prof. Vineet Kansal)

Copy to:

1. Registrar, AKTU, Lucknow.
2. Coordinator TEQIP-III, AKTU, Lucknow
3. Nodal Officer (Finance), TEQIP-III and Finance Officer AKTU, Lucknow.
4. Nodal Officer (Procurement), TEQIP-III and System Manager AKTU, Lucknow.
5. All Deans, AKTU, Lucknow.
6. Staff Officer, Hon'ble Vice Chancellor for kind information.

(Prof. Vineet Kansal)

ITU CoE Face to Face Training Programme
IoT Technologies and Applications for Smart Cities
29th October – 02rd November 2018

ALTTC, Ghaziabad, India

Training Outline

Programme Description

Title	ITU CoE Training Programme on "IoT Technologies and Applications for Smart Cities"
Method of Delivery	Face-to-Face in English
Objectives	• To understand and appreciate the various enabling IoT technologies and utilising it for smart cities applications. • To understand IoT Ecosystem and Smart Sustainable Cities. • To understand communication technologies for IoT applications • To understand deployment strategies, ubiquitous connectivity planning and importance of horizontal common service layer for smart cities applications. • To know about smart governance and citizen services. • To understand about smart cities use cases • To understand security, privacy and regulatory issues pertaining to IoT based applications • To understand data analytics, and other related aspects.
Duration	29th October – 02nd November 2018 (5 Days)
Registration Deadline	14th October 2018
Training Fees	• Foreign participants: USD 275 (Tax Inclusive) per participant. • Indian participants: USD 275 (Tax Inclusive) or INR 18700/- (Tax inclusive) per participant.
Course Code	XXXX

Learning Outcome

Upon completion of this training, participants will be able:
• To understand IoT Ecosystem and Smart Sustainable Cities.
• To understand communication technologies for IoT applications
• To understand deployment strategies, ubiquitous connectivity planning and importance of horizontal common service layer for smart cities applications.
• To know about smart governance and citizen services.
• To understand about smart cities use cases

- To understand security, privacy and regulatory issues pertaining to IoT based applications
- To understand data analytics, and other related aspects.

Target Population:

This training is targeted at Executives, Managers, Engineers and Technical staff from smart city project executors, regulators, policy makers, telecom operators, Industry, and academia. Other institutions and individuals who are interested in building their capacity in the field of IoT Technologies and Applications for Smart Cities are also welcome to participate in this training program.

Draft Training Schedule / Agenda

(Updated information will be available at http://www.itu.int/itu-d/asp)

29th October 2018 (Monday)		
Session #	**Topic**	**Speaker/Organization**
Session 1	Registration, Welcome and Keynote address	ALTTC, ITU, MeitY, C-DoT, ICT Faculty (Iran)
Session 2	Overview of IoT Ecosystem and Smart Sustainable Cities	ITU
Session 3	IoT Standards and Issues	SESEI / BIS
Session 4	IoT platforms: Network architecture, Gateway and Design	MeitY

30th October 2018 (Tuesday)		
Session 1	IoT Communication Technologies	TEC
Session 2	M2M Numbering and Addressing Issues	TEC
Session 3	ICT deployment strategies for Smart Cities	C-DOT
Session 4	Ubiquitous Connectivity Planning for Smart Cities	TRAI
Session 5	Interoperability and Regulatory Challenges	TRAI/ ICT Faculty, Iran

31st October 2018 (Wednesday)		
Session 1	Quiz #1	ALTTC / ITU
Session 2	Horizontal Common Service Layer in Smart Cities	C-DOT
Session 3	Smart Governance: e-Governance and Citizen Services	MeitY
Session 4	Smart Cities Use Cases 1	Industry / CDAC
Session 5	Smart Cities Use Cases 2	Industry / CDAC
Session 6	Industrial IoT and Applications	MeitY

01st November 2018 (Thursday)		
Session #	**Topic**	**Speaker/Organization**
Session 1	Distributed Ledger Technology and its applications	ALTTC
Session 2	Digital Payments	MeitY
Session 3	Data Analytics and its usage in Smart Applications	TRAI & MeitY
Session 4	Future Proof Security Algorithm: Quantum Safe Encryption	C-DOT
Session 5	IoT Experience: Case of Iran	ICT Faculty, Iran
Session 6	Group Exercise	ALTTC / ITU

02rd November 2018 (Friday)		
Session 1	Quiz #2	ALTTC
Session 2	Field Visit: NASSCOM: COE-IOT	ITU, ALTTC, MeitY
Session 3	Validation, and Feedback	ALTTC, ITU

Facilitators / Experts:

Name of Tutor(s) / Instructor(s) / Facilitators	Contact Details
Mr. MK Seth Chief General Manager, ALTTC, Ghaziabad	cgm_alttc@bsnl.co.in
Mr. Subhash Chand Principal General Manager, ALTTC, Ghaziabad	subhash.iitr83@gmail.com
Mr. Ashish Narayan Program Coordinator, ITU Regional Office for ASP, Bangkok	ashish.narayan@itu.int
Mr. Devendra Dwivedi General Manager (IT & BB), ALTTC, Ghaziabad	gmit.alttc@gmail.com
Mrs. Suresh Devi Dy. General Manager (IT & BB), ALTTC, Ghaziabad	sureshdevi7009@gmail.com
Mr. Anand Kumar Assistant General Manager, ALTTC, India	anandkumarbsnl21@gmail.com

Evaluation

The assessment of the participants shall be based on the time spent on the training and the following parameters:

Evaluation Parameter	Weightage
Quizzes and Presentations	60%
Attendance	10%
Participation	30%

The minimum passing requirement for certificate is 60%

Methodology:

The face-to-face program will include

- Instructor-led presentations
- Case Studies
- Group Exercises
- Assignments and Quizzes

Training Coordination

Institute Head:	Training coordinators:	ITU coordinator:
Mr. MK Seth Chief General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 cgm_alttc@bsnl.co.in (Email) +91 120 2755121 (Works) **Institute Coordinator:** **Mr. Subhash Chand** Principal General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 subhash.iitr83@gmail.com (Email) +91 120 2755122 (Works) +91 9868202123 (Mobile)	**Mr. Devendra Dwivedi** GM (BB & IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 gmit.alttc@gmail.com (Email) +91 120 2755144 (Works) +91 94298 94398 (Mobile) **Mr. C B Singh** DGM (BB & IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 cbhans1960@gmail.com (Email) +91 9412774489 (Mobile) **Mr. Anand Kumar** AGM (Broadband) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 anandkumarbsnl21@gmail.com(Email) +91 120 2755052 (Works) +91 94127 39248 (Mobile)	**Mr. Ashish Narayan** Program Co-ordinator, ITU Regional Office for Asia-Pacific 5th Floor, Thailand Post Training Centre, 111 Moo3 Chaengwattana Road,Laksi Bankok 10210,Thailand ashish.narayan@itu.int (Email) +66 257 500 55 (Works) +66 257 535 07 (Fax)

ITU CoE Face to Face Training Programme

IoT Technologies and Applications for Smart Cities

29th October – 02nd November 2018

ALTTC, Ghaziabad, India

REGISTRATION AND TRAINING FEE PAYMENT

1. Registration and Fee payment procedure are mentioned below.
2. Training fee for foreign participants is USD 275 (US Dollar Two Hundred and Seventy Five Only) per participant and Indian participants can pay training fee either as USD 275 (US Dollar Two Hundred and Seventy Five Only) or INR 18,700 (Indian Rupees Eighteen Thousand Seven Hundred Only).
3. Boarding and lodging charges for this training are in addition to the above charges. Options for accommodation are mentioned later in this annexure.

Registration Procedure

Registration for this training program

Please complete the form in annexure-II A and II B and submit through email to Mrs. Suresh Devi (sureshdevi7009@gmail.com), Mr. Anand Kumar (anandkumarbsnl21@gmail.com) and to Mr. Ashish Narayan (ashish.narayan@itu.int) with copy for information to Ms. Porntip Modethes (portip.modethes@itu.int).

Registration on ITU Academy Portal

As the course evaluation will be carried out online, participants are also requested to register online at the ITU academy platform. Registration should be made at (http://academy.itu.in) by following the steps:

Skip Step 1, If you already have a username and password

Step 1: Create an account in the ITU Academy portal at the following address:
https://academy.itu.int/index.php?option=com_hikashop&view=user&layout=form&Itemid=559&lang=en
After completing the registration form, a message will be sent to you to your email address inviting you to log in to the platform.

Step 2: Once you are logged in, you can search for the course in the training catalogue or directly proceed to the course through the following link.
http://academy.itu.in/....

Step3: *Click on "Enrol me into the course" and type the following enrolment key: XXXX. You will be able to access the course page.*

Please note that registration should be done before 14th October 2018.

Fee Payment Procedure

1. Online payment in USD

Training fee of USD 275 (Tax Inclusive) in US Dollar can be made directly at the ITU portal using the following link: http://academy.itu.int/...

2. Online payment / Bank Transfer in Indian Rupee (Indian Participants only)

Training fee of INR 18,700 (Tax Inclusive) in INR can be made directly to the ALTTC bank account. The details are as follows:

ALTTC Bank Account Details

1. Name of Account Holder: **AO Cash, BSNL ALTTC**
2. Account Type: **Current**
3. Account no: **10888625814**
4. Bank Name: **State Bank of India, Main Branch, Ghaziabad, INDIA**
5. IFSC code: **SBIN0000642**

3. Payment by Bank Transfer

Where it is not possible to make payment via the online system, a bank transfer may be done on the ITU Bank account shown below. In this case, the participant should select the offline payment option using the link mentioned above:

https://academy.itu.int/index.php?option=com_joomdle&view=coursecategoryextended&cat_id=:&co7

The participant will be redirected to a page where an invoice is generated. On the basis of such invoice, the participant will transfer the training fees to the ITU bank account. When the bank transfer has been made, it is IMPERATIVE that the applicant uploads the proof of payment to the ITU Academy, under the "Offline Invoices" tab in the main menu. The participant is advised to notify the Human Capacity Building (HCB) Division at hcbmail@itu.int and to ALTTC CoE Coordinator at cbhans1960@gmail.com after he/she has uploaded the proof of payment.

4. ITU Bank Account Details

Name and Address of Bank:	**UBS Switzerland AG,**
	Case postale 2600, CH 1211 Geneva 2, Switzerland
Beneficiary:	Union Internationale des Télécommunications
Account number:	**240-C8108252.2 (USD)**
Swift:	**UBSWCHZH80A**
IBAN	**CH54 0024 0240 C810 8252 2**
Amount:	**USD 275 ($)**
Payment Reference:	**CoE-ASP 20630 – P.40593.1.04**

5. **Other method of payment:**

   If due to national regulations, there are restrictions that do not allow for payment to be made using options 1 & 3 above, please contact the ITU Program Coordinator for further assistance.

Boarding and Lodging

1. Pick up and Drop arrangement from / to the Indira Gandhi International Airport, New Delhi shall be at the cost of INR 10,000 (Indian Rupees Ten Thousand Only). This payment can be made at ALTTC, Ghaziabad.

2. Rates for Lodging and Boarding at ALTTC, Ghaziabad are as follows.

   ALTTC Hostel Accommodation- J.C. Bose Hostel (within ALTTC Campus)

   The charge of JC Bose hostel is as follows:

Name of the Hostel	Per Day charges (Inclusive of taxes)
JC Bose Hostel ALTTC Campus Ghaziabad, UP - 201 002	With all meals included
	INR 3300 per day

3. **Hotel Accommodation:**

   a. ***Fortune Inn Grazia*** *(around 500 m from training venue)*
      (https://www.fortunehotels.in/ghaziabad-fortune-inn-grazia.dh.3)
      Address: Plot No.1, ALT Road, Sector-23, Ghaziabad, UP 201002.
      Phone: +91 120 398 8442

   b. ***Citrus Hotel*** *(around 2 Km from training venue)*
      Address: C - 2, Mahaluxmi Mall, Raj Nagar District Centre, UP 201002
      Phone: +91 120 450 1050.

   c. ***Country Inn and Suites—*** *Sahibabad (around 15 Km from training venue)*
      (https://www.countryinns.com/hotels/rates/indsahi/new)
      Address: 64/6, Site-Iv, Sahibabad, Ghaziabad, Uttar Pradesh 201010
      Phone: +91 120 418 0000

   d. ***Radisson Blu —*** *Kaushambi (around 20 km from training venue)*
      (https://www.radissonblu.com/en/hotel-kaushambi)
      Address: H-3, Modipon Vihar, Sector 14, Kaushambi, Ghaziabad, Uttar Pradesh 201010
      Phone: +91 120 473 6200

Participants are requested to make reservation in hotels suggested above or any other hotel of their choice and convenience. In case any assistance is required, the training coordinators may be contacted.

ITU CoE Face to Face Training Programme

IoT Technologies and Applications for Smart Cities

29th October – 02nd November 2018

ALTTC, Ghaziabad, India

REGISTRATION FORM

To be returned through email to:

Mr. C B Singh (cbhans1960@gmail.com) and

Mr. Anand Kumar (anandkumarbsnl21@gmail.com)

Cc: Porntip Modethes (portip.modethes@itu.int)

Before 14th October 2018

Please complete the form below using CAPITAL LETTERS

Name: (As per Passport)	TITLE FIRST NAME		
	MIDDLE NAME		
	LAST NAME		
Designation / Position Title			
Date of Birth		Gender	☐ MALE ☐ FEMALE
Passport No. (If applicable)		Nationality	
Email ID			
Contact No.			
Name of the Organisation			
Organisation Address			
	Country: Telephone No.: Fax No.: Email ID:		
Accommodation Arrangement	JC Bose Hostel, ALTTC	Hotel	own arrangement
Pick / Drop from Airport	Required		Not Required

Note: International participants are requested to provide scanned copy of Passport along with registration form.

ITU CoE Face to Face Training Programme

IoT Technologies and Applications for Smart Cities

29th October – 02nd November 2018

ALTTC, Ghaziabad, India

FEE PAYMENT DETAIL

To be returned through email to:

Mr. C B Singh (cbhans1960@gmail.com) and

Mr. Anand Kumar (anandkumarbsnl21@gmail.com)

Cc: Porntip Modethes (portip.modethes@itu.int)

Before 14th October 2018

Name: (As per Passport)	TITLE FIRST NAME MIDDLE NAME		
	LAST NAME		
Passport No. (If applicable)		Nationality	
Email ID			
Fee Paid	☐ US Dollar 275	☐	Indian Rupee 18,700
Mode of Payment	☐ Online	☐	Bank Transfer
Transaction Reference No.			
Date and Time of Transaction			

ITU CoE Face to Face Training Programme

IoT Technologies and Applications for Smart Cities

29th October – 02nd November 2018

ALTTC, Ghaziabad, India

ACCOMMODATION / PICKUP-DROP ARRANGEMENT RESERVATION FORM

To be returned through email to:

Mr. C B Singh (cbhans1960@gmail.com) and

Mr. Anand Kumar (anandkumarbsnl21@gmail.com)

Cc: Porntip Modethes (portip.modethes@itu.int)

Before 14th October 2018

Please complete the form below using CAPITAL LETTERS

Name: (As per Passport)	TITLE FIRST NAME		MIDDLE NAME		
	LAST NAME				
Date of Birth	DD / MM / YYYY		Gender	☐ MALE ☐ FEMALE	
Passport No. (If applicable)			Nationality		
Email ID					
Contact No.					
Name of the Organisation					
Accommodation Reservation	☐ JC Bose Hostel, ALTTC		☐ Hotel / Own Arrangement		
Date of Arrival	DD/MM/YYYY	Flight No.		Time	
Date of Departure	DD/MM/YYYY	Flight No.		Time	
Pick / Drop from Airport	Required		Not Required		

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