

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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HEAD

Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 055.



CERTIFICATE OF APPRECIATION TO

DR. NANDINI PRASAD K.S

for being recognized as NPTEL BELIEVER
JUL-DEC 2019

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

NPTEL BELIEVER

Candidate has to be present in 4/5/6
exams, passing at least 4 of these exams





CERTIFICATE OF APPRECIATION TO

DR.NANDINI PRASAD K.S

for being recognized as NPTEL ENTHUSIAST
DEC 2020

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

NPTEL ENTHUSIAST

Candidate has to appear in at least 8
exams in Jan 2019 - Jul 2020, pass in 75% of
courses appeared





CERTIFICATE OF APPRECIATION TO

VIJAYALAXMI R PATIL

(Computer Science and Engineering)

for being recognized as NPTEL DISCIPLINE STAR
Dec 2019

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

NPTEL DISCIPLINE STAR

Candidate has to be certified in courses of same discipline, completed more than 50 weeks of learning, final score in each subject ≥ 55





CERTIFICATE OF APPRECIATION TO

DR NANDINI PRASAD KS

for being recognized as NPTEL BELIEVER
JAN-DEC 2020

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

NPTEL BELIEVER

Candidate has to be present in 4/5/6
exams, passing at least 4 of these exams





Springer



ICECMSN-2020



CERTIFICATE OF PRESENTATION

This certificate is awarded to

Dr. K.S. Nandini Prasad, Dr. Ambedkar Institute of Technology, Bengaluru
has successfully presented a paper entitled

Cognitive Computing Technologies, Products & Applications

in the International Conference on

Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020)

organised by Sir M. Visvesvaraya Institute of Technology, Bangalore, India on 20-21, February 2020.

SESSION CHAIR

Suma

CONFERENCE CHAIR

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Dr. Manjula Sanjay Koti

PRINCIPAL

Dr. V.R. Manjunath

Dr. V.R. Manjunath

Cognitive Computing Technologies, Products, and Applications



N. Divyashree and Prasad K. S. Nandini

Abstract Cognitive computing has made industries and business organizations to operate in a different paradigm with respect to the use of technology right from carrying business operations to high-level decision-making strategy. The ability of human experts in any field to think and make right decisions varies from person to person which creates the demand and necessary requirement of a high skilled person in an industry, but it becomes difficult for any human when it comes to obtaining useful insights to carry out business operations and to take right decisions from a huge amount of data that gets generated every day. Different technologies and platforms are necessary to process almost petabytes of data and make proper use of it to obtain patterns and insights.

Keywords Cognitive science · Cognitive computing · Artificial intelligence · Machine learning

1 Introduction

The word Cognition is obtained from the Latin word Cognosco (“con” means with “gnosco” means know) which means “conceptualize” or “recognize”. Cognitive science is a study of the interdisciplinary field [1] (cognitive psychology, cognitive linguistics, biology, psychological science, computer science, and neuroscience) on the human brain (mind and intelligence). Human cognition involves memory, perception, concept formation, concept association, concept recognition (involves pattern recognition), consciousness, and mental ability to understand and solve any problem. For instance, the way a person tries to remember a learned concept in different ways and tries to link what is learnt to any previously encountered situations or examples.

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Cognitive computing [2] is a discipline under science which does all the effort with a theme of human psychology and mental ability behind it. Cognitive computing is yet another subfield under Artificial Intelligence (AI) that makes use of Machine Learning (ML), Natural Language Processing (NLP), Human–Computer Interaction (HCI), sentiment analysis, vision, Artificial Neural Networks (ANN), and big data technologies to build a successful, self-learning information processing models that simulate human cognition and intelligence.

The goal of cognitive computing systems is not to substitute humans but to mimic the human thought process along with an extraordinary capability of processing complex and the large amount of data that no human brain can process or retain so as to assist human experts in the better decision-making process. Cognitive computing tries to explore and implement human cognition concepts to solve vast problems through penetration into the complexities of big data. Cognitive Computing Consortium (CCC) has mentioned the following features that describe/identify a cognitive system [3].

1. Adaptive: Cognitive systems should have the ability to learn and adapt in real time be it the data gathering or understanding goals as surrounding environment change in order to get desired results.

2. Interactive: Cognitive systems must be able to understand the requirements of humans, take input from humans, and interact with its own system components like processors, interconnected devices, and services to provide appropriate results.

3. Iterative and Stateful: Cognitive systems must be able to retain and use previously encountered knowledge/situation and use it on present problems statements if it occurs similar or incomplete.

4. Contextual: Cognitive systems must be able to identify the requirements and extract only necessary information from multiple sources of any data types (structured, unstructured, semi-structured data) that suits the problem context such as syntax, meaning, time, place, or domain.

This paper tries to explain the idea behind Cognitive computing areas where Cognitive computing can be and are successfully implemented, about different cognitive computing companies, their products and solutions for business that requires solution through cognitive computing.

2 Technologies That Aid Cognitive Computing

2.1 *Artificial Intelligence*

AI is a study on how to mimic human intelligence through machines. AI can be classified into three different levels:

- Narrow AI,

- General AI, and
- Strong AI

A system is said to exhibit AI if it has the capabilities of problem-solving and learning abilities from examples.

2.2 Machine Learning

ML is a branch under AI, where an algorithm/program learns from historical and existing data without being explicitly programmed called Machine Learning Models. ML algorithms.

Individual or combinations of these algorithms are used to build models to perform complex tasks like prediction forecasting, analytics, estimation, etc.

2.3 Natural Language Processing

NLP deals with deciphering unstructured data to extract, understand, analyze, and process meaningful information to drive intelligent solutions. Different ML algorithms are employed to build NLP systems.

NLP is used in several areas like speech recognition, sentiment analysis, customer service, advertisement, text summarization, text analytics, social media monitoring, etc. Trends that impact NLP are machine learning algorithms, Deep learning, semantic search, and Cognitive communication.

2.4 Computer Vision

Computer vision deals with the automation of high-level understanding and information gathering from digital videos and images. According to British Machine Vision Association and Society for Pattern Recognition (BMVA) [4], “Computer Vision is concerned with the automatic extraction, analysis and understanding of useful information from a single image or sequence of images”. Computer vision is used in many fields like

• Biometrics	• Agriculture
• Image restoration	• Forensics
• Robotics	• Transport and many more
• Augmented reality	• Facial recognition
• Security and surveillance	• Autonomous vehicles

2.5 Human–Computer Interaction

Human–Computer Interaction (HCI) deals with designing of technologies and interfaces that assist interaction between human and computer in a novel way and also tries to mimic human–human interaction as well. According to Association for Computing Machinery (ACM), “Human–Computer Interaction is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them”. Examples of HCI include

• Graphical User Interface(GUI)	• Natural language question and answering
• Voice User Interface (VUI)	• Google voice search
• Facial recognition systems	

3 Cognitive Computing Companies and their Products

3.1 Sparkcognition

Sparkcognition is a leading AI solution company [5]. It has provided many software solutions for customers namely, Analysis of complex data stores, providing actionable insights, Automation and identification of optimal responses, and Infrastructure protection against cyber threats.

i. Areas where Sparkcognition has provided solutions

• Aviation	• Financial services
• Maritime	• Manufacturing
• Defense	• Energy and utilities
• Cybersecurity	• Federal industry
• Oil and gas	• Telecommunication

ii. Products/solutions of Sparkcognition

• SparkPredict	• DeepNLP
• DeepArmor	• Darwin

3.2 SparkSecure

SparkSecure is a Cloud-based platform developed by Sparkcognition [6] which augments and optimizes cybersecurity team performance. SparkSecure is an innovative approach that combines cognitive analysis with big data and large security corpus through IBM Watson. SparkSecure automatically collects large amounts of security data of both structured and unstructured data in the form of natural language or in the form of server logs through IoT (Internet of Things)and applies its patented Machine Learning algorithms for Cognitive analysis to understand about the data and performs detection of insider threats, malicious software and identifying bot traffics in weblogs.

3.3 Mindfabric

Mindfabric is yet another Cognitive security analytics platform [7] developed by Sparkcognition for protection against cyber threats. Industries that are connected to mobile devices and servers in the cloud are very vulnerable to cyber threats that no humans can possibly contend due to its diverse nature. Mindfabric collects digital information (be it the infrastructure security data or real-time data through IoT devices), and automatically builds cognitive models to learn from data and project/predict outcome (be it for constantly updating security policies, prevention of disasters before occurrence, or prediction of system failure) into the future.

3.4 Microsoft Cognitive Services

Microsoft Cognitive Services provides APIs (Application Programming Interface) with inbuilt AI algorithms for apps, bots, and websites [8]. Microsoft Cognitive Services has a collection of around 25 tools (collection of AI algorithms and APIs) that allows developers to include various features like sentiment detection, emojis, vision, etc., to the applications with no requirement of prior knowledge on machine learning. E.g., Skype, Crotona, and Bing provide features like conversation translation, understanding of spoken words, and intent.

Azure [9] is a cloud-based platform developed by Microsoft for managing applications and services by providing Infrastructure as a Service (IaaS), Software as a Service (SaaS), and Platform as a Service (PaaS).

i. Cognitive Services provided by Azure

• Vision	• Language
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(continued)

(continued)

• Speech	• Search
• Knowledge	• Anomaly detection

3.5 IBM Watson

IBM Watson is a supercomputer named after its founder Thomas J. Watson. Watson is a cloud-based suite of applications, enterprise-ready AI services and tools [10]. Watson has several applications that apply Cognitive computing as the underlying technology. IBM has provided AI-based solutions in several fields like advertising, IoT, health, customer engagement, financial services, education, Media, collaborated solutions for teamwork, and talent management solutions.

i. Some APIs developed by IBM Watson

• Watson assistant	• Natural language understanding
• Watson openScale	• Personality insights
• Visual recognition	• Watson studio and many more
• Tone analyzer	

3.6 Numenta

Numenta [11] is a company that works on machine intelligence technology and applications based on neocortex principles. Numenta has developed an open-source project called NuPIC (Numenta Platform for Intelligent Computing) using an underlying technology called HTM (Hierarchical Temporal Memory).

i. Commercial products created by Numenta

- Grok (for anomaly detection, and for reduction of downtime in business)
- Cortical.io (natural language processor)
- Hierarchical Temporal Memory (HTM) an open-source technology inspired by the neocortex.

ii. Some of the example applications available under NuPIC

- Stock monitoring
- Rogue behavior [12]
- Geospatial tracking [13]

3.7 Expert System

Expert System [14] is a company that develops Text analytics software and Cognitive computing software using AI algorithms to explore and understand the intended meaning of written language and provides solutions like insights gaining, better decision-making, customer engagement, automation of processes that are information intense, and mitigation of operational risks. Solutions provided by Expert System are Knowledge management, Corporate intelligence, Entity extraction software, Cognitive automation, and Automatic classification.

i. Products developed by Expert Systems

• Cogito cognitive technology	• Cogito studio
• Cogito intelligence platform	• Cogito for underwriting
• Cogito discover	• Biopharma navigator
• Cogito claims	• API and Integrations
• Cogito answers	

3.8 Cisco Cognitive Threat Analytics

Cisco Cognitive Threat Analytics is a cloud-based service [15] to detect malicious attacks and suspicious web-based traffic for the websites. Cognitive threat analytics is able to analyze nearly ten billion web requests per day and zeroes in malicious activities using statistical models and machine learning models for analyzing web traffic and device behavior over networks.

3.9 HPE Haven OnDemand

Haven OnDemand [16] is introduced as Machine learning as a service by HPE (Hewlett Packard Enterprise) on Microsoft Azure as a Cognitive computing service. Haven OnDemand provides services and collection of nearly more than sixty APIs that are developed using machine learning algorithms for data scientists and enterprise application developers to extract and analyze multiple data formats from big data in a faster and easier way for building data-rich applications.

3.10 CognitiveScale

CognitiveScale [17] is an AI-powered cognitive foundation company and is first in the world to release a cognitive platform called Cortex. Cortex software augments machine intelligence to human intelligence to enhance business operations and customer experience by simplifying business processes including development, deployment, and management by provision cognitive insights for business actions.

i. Products by CognitiveScale

- Engage AI
- Amplify AI

3.11 Deepmind

Deepmind [18] is a leader company in the world for its research in Artificial intelligence and its applications. Deepmind has built many relationships-time applications using AI technology.

i. Projects of Deepmind

• Deepmind health	• Games
• Deepmind for Google	• Differential neural computer
• Deepmind ethics and society	• Deep Q-Network

4 Application Areas of Cognitive Computing

• Law firms	• Personal shopping bots
• Industrial sector	• Customer support bots
• Financial sector	• Travel agents
• Education	• HealthCare
• Customer behavior analysis	• Security

These are some of the application areas where cognitive computing is currently being applied, but not limited to.

5 Conclusion

SparkCognition, SparkSecure, Mindfabric, Microsoft Cognitive Services, IBM Watson, Numenta, Expert System, Cisco Cognitive Threat Analytics, HPE Haven OnDemand, CognitiveScale, and Deepmind are the main companies that are currently contributing to cognitive computing, but not limited to. Cognitive computing technologies can be used to only those areas which generate a large amount of data and cognitive decisions to be made out of it.

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18. <https://deepmind.com/>



ಪಿ.ಇ.ಎಸ್. ಕಾಲೇಜ್ ಆಫ್ ಇಂಜಿನಿಯರಿಂಗ್

ಮಂಡ್ಯ - 571401 ಕರ್ನಾಟಕ.

(ವಿಶ್ವವಿದ್ಯಾಲಯ ತಂತ್ರೀಕರಣ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಡಿಯಲ್ಲಿನ ಸ್ವಾಯತ್ತ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಅನುದಾನಿತ ಸಂಸ್ಥೆ ಮತ್ತು ಯು.ಜಿ. * ವಿಭಾಗಗಳು ಎನ್.ಐ.ಎ.ಯ ಮಾನ್ಯತೆ ಪಡೆದಿರುತ್ತದೆ).

P.E.S. COLLEGE OF ENGINEERING

MANDYA - 571401 KARNATAKA

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi Aided by the Govt. of Karnataka and U.G. * Programmes are Accredited by National Board of Accreditation)



Ref No: PESCE/AUTO/DEAN-ACAD/EVEN/2020-21/82A/257 Date: 12th Aug. 2021

To,

Dr. M V Vijayakumar
Professor and Vice-Principal,
Information Science & Engineering,
Dr. Ambedkar Institute of Technology, Bengaluru.

Sir,

Sub.: Nomination to the Academic council of PES College of Engineering,
Mandya - Reg.

With reference to the above, we are pleased to nominate you as a member for **Academic Council - Expert from Outside the College (Technical Education)** of PES College of Engineering, Mandya (Autonomous) from August, 2021 - July, 2024.

You are requested to accept the same and attend the meetings convened and facilitate in carrying out its function.

Functions:

- Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto, etc., provided that where the Academic Council differs on any proposal, it will have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- Frame regulations consistent with University norms to conduct examinations and initiate measures for improving the quality of teaching, students' evaluation and advisory system in the College.

Thanking you,

Dr. R. Girisha
Dean, Academic Affairs

Dean (Academic)

P.E.S.C.E., Mandya

Dr. R M Mahalinge Gowda
Principal

PES College of Engineering

Mandya - 571 401.

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Subramanya Education Society ®

EAST WEST INSTITUTE OF TECHNOLOGY

(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka,
Accredited by NAAC & Recognized U/S 2 (f) of the UGC Act 1956)

63, Off Magadi Main Road, Vishwaneddam Post, Near Anjana Nagar, Bengaluru - 560 091
Ph : 080-23286732; Fax : 080-23288244; Email : principal@ewit.edu; Website : www.ewit.edu

Date: 28/10/2020

From,

Dr. Narasimha Murthy MS
Professor and Head
Department of CSE
East West Institute of Technology, Bengaluru.

To,

Dr. Nandini Prasad KS
Professor, Department of ISE
Dr. Ambedkar Institute of Technology
Bengaluru.

Sub: Appreciation Letter (Subject Expert) -reg.

Dear Madam,

I take this opportunity to thank you for taking part as **SUBJECT EXPERT** in the **faculty recruitment drive/process** held on **28/10/2020, Wednesday** in the department of CSE-EWIT.

The department would like acknowledge your effort in this regard and would like to continue our association in future for various such activities.

Thanks.

Yours faithfully,

(Dr. Narasimha Murthy MS)

Head

Department of Computer Science & Engineering
East West Institute of Technology
Bengaluru-560 091



Dr. Nandini PRASAD K S <nandiniks1@gmail.cc

Regarding Board of Studies Updated

Prof. Ramapati Mishra <directorietfzd@gmail.com>
Bcc: nandiniks1@gmail.com

Wed, Oct 24, 2018 at 10:58

Dear Sir

GREETINGS OF THE DAY !!!

I am directed to inform you that Honorable Vice Chancellor of my University has nominated you for the Board of Studies, Branch Information Technology, of IET which is scheduled on dated 29-10-2018 Also , I invite you to participate and deliver an invited talk of your choice in the workshop on "Recent trends in Industry & Academia" from 27 to 31 October 2018

In Anticipation of positive response,
With warm Regards.

PFA

Regards;

Prof. Ramapati Mishra

Director/Co-ordinator TEQIP-III

Institute of Engineering & Technology

Dr. Ram Manohar Lohia Avadh University

Faizabad, U.P. 224001

+917351835666

**BoS Email IT.pdf**

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अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
डॉ. राम मनोहर लोहिया अवध विश्वविद्यालय, फैजाबाद (उ.प्र.)

फ़ोन - 052718 - 2476281
मो. - 9407189712, 9407189713
फैक्स - 052718 - 2481235
ई-मेल - directoriet@gmail.com

INSTITUTE OF ENGINEERING & TECHNOLOGY

Dr. RAM MANOHAR LOHIA AVADH UNIVERSITY, FAIZABAD (U.P.)

Dear Sir

GREETINGS OF THE DAY !!!

I am directed to inform you that Honourable Vice Chancellor of my University has nominated you for the **Board of Studies**, Branch **Information Technology**, of IET which is scheduled on dated **29-10-2018**

Also , I invite you to participate and deliver an **invited talk** of your choice in the workshop on **"Recent trends in Industry & Academia"** from 27 to 31 October 2018

In Anticipation of positive response,

With warm Regards.

Yours faithfully

Prof. Ramapati Mishra

Director IET



Dr. Nandini PRASAD K S <nandiniks1@gmail.com>

Invitation for Board of studies

Prof. Ramapati Mishra <directorietfzd@gmail.com>

Tue, May 28, 2019 at 9:49 AM

To: "Prof. Ramapati Mishra" <director.rpm@gmail.com>

Cc: "Er. Vineet Singn" <cn.vineet@gmail.com>, paritoshtripathi@rmlau.ac.in, "Er. Samridhi Singh"

<samriddhisinh.711@gmail.com>, "Er. Awadhesh Maurya" <aumaurya@gmail.com>, rajnish.0807@yahoo.com

Bcc: nandiniks1@gmail.com

Dear Sir

GREETINGS OF THE DAY !!!

I am directed to inform you that Honorable Vice Chancellor of my University has nominated you for the Board of Studies, Branch Information Technology, of IET which is scheduled on dated 01 June 2019. I heartily invite you to participate in BoS on 01 June 2019.

In Anticipation of positive response,

With warm regards;**Prof. Ramapati Mishra****Director**

Institute of Engineering & Technology

Dr. Rammanohar Lohia Avadh University

Ayodhya, U.P. 224001

+917351835666



BoS 1 June 2019 IT EC.pdf

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Dr. Nandini PRASAD K S <nandiniks1@gmail.com>

Invitation for Board of studies

Prof. Ramapati Mishra <directorietfzd@gmail.com>

Tue, May 28, 2019 at 9:41 AM

To: "Prof. Ramapati Mishra" <director.rpm@gmail.com>

Cc: "Er. Vineet Singh" <cn.vineet@gmail.com>, paritoshtripathi@rmlau.ac.in, "Er. Samridhi Singh" <samriddhisinh.711@gmail.com>, "Er. Awadhesh Maurya" <aumaurya@gmail.com>, rajnish.0807@yahoo.com

Bcc: nandiniks1@gmail.com

Dear Sir

GREETINGS OF THE DAY !!!

I am directed to inform you that Honorable Vice Chancellor of my University has nominated you for the Board of Studies, Branch Information Technology, of IET which is scheduled on dated 01 June 2019. I heartily invite you to participate in BoS on 01 June 2019.

In Anticipation of positive response,

With warm regards;**Prof. Ramapati Mishra****Director**

Institute of Engineering & Technology

Dr. Rammanohar Lohia Avadh University

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दूरभाष नं०- 05278-245957

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डॉ० राममनोहर लोहिया अवध विश्वविद्यालय, फैजाबाद-अयोध्या (उ०प्र०)

पत्रांक: लो०अ०वि०/शैक्ष०/2019/427

दिनांक: 23.05.2019

बैठक की सूचना

मुझसे यह सूचित करने की अपेक्षा हुई है कि इंजीनियरिंग एवं प्रौद्योगिकी संस्थान (आई०ई०टी०) परिसर में संचालित इलेक्ट्रानिक्स एण्ड कम्यूनिकेशन इंजीनियरिंग/इनफार्मेशन टेक्नोलॉजी अध्ययन बोर्ड (BOS) की बैठक दिनांक: 01.06.2019, को आई०ई०टी० संस्थान के सभाकक्ष में पूर्वान्ह 11:00 बजे आहूत की गयी है, जिसमें सत्र 2019-20 की परीक्षा हेतु प्राश्निकों एवं परीक्षकों (सैद्धान्तिक/प्रायोगिक) के विभिन्न पैनलों के प्रस्ताव पर विचार कर संस्तुति की जानी है।

2 सभी सम्बन्धित से अनुरोध है कि कृपया उक्त बैठक में निर्धारित तिथि व समयानुसार प्रतिभाग करने का कष्ट करें।

1.	निदेशक, आई०ई०टी०, संस्थान	—	संयोजक
2.	इ० उमेश सिंह, आई०ई०टी०, संस्थान	इलेक्ट्रानिक्स एण्ड कम्यू०	आन्तरिक सदस्य
3.	इ० अभिषेक श्रीवास्तव, आई०ई०टी०, संस्थान	इलेक्ट्रानिक्स एण्ड कम्यू०	आन्तरिक सदस्य
4.	इ० रमेश मिश्रा, आई०ई०टी०, संस्थान	इलेक्ट्रानिक्स एण्ड कम्यू०	आन्तरिक सदस्य
5.	इ० परिमल तिवारी, आई०ई०टी०, संस्थान	इलेक्ट्रानिक्स एण्ड कम्यू०	आन्तरिक सदस्य
6.	इ० शाम्भवी शुक्ला, आई०ई०टी०, संस्थान	इलेक्ट्रानिक्स एण्ड कम्यू०	आन्तरिक सदस्य
7.	प्रो० वी०के०सिंह, आई०ई०टी० लखनऊ।	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
8.	प्रो० वी०वी०तिवारी, वी०वी०एन०पी०यू०, जौनपुर	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
9.	प्रो० राजीव त्रिपाठी, एम०एन०एन०आई०टी०, इलाहाबाद।	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
10.	प्रो० एस०आर०पी०सिन्हा, आई०ई०टी०, लखनऊ।	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
11.	प्रो० वी०एस० त्रिपाठी, एम०एन०एन०आई०टी०, इलाहाबाद।	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
12.	प्रो० आर०के० नागरिया, एम०एन०एन०आई०टी०, इलाहाबाद।	इलेक्ट्रानिक्स एण्ड कम्यू०	वाह्य विशेषज्ञ
13.	प्रो० जी०वी० जयरामैया, डॉ०ए०आई०टी०, बेंगलोर।	इलेक्ट्रानिक्स एण्ड कम्यू०	मेन्टर इंस्टीट्यूट फॉकेल्ट
14.	प्रो० महालिंगा वी०गण्डी, डॉ०ए०आई०टी०, बेंगलोर।	इलेक्ट्रानिक्स एण्ड कम्यू०	मेन्टर इंस्टीट्यूट फॉकेल्ट
15.	इ० शिवपुत्र, डॉ०ए०आई०टी०, बेंगलोर।	इलेक्ट्रानिक्स एण्ड कम्यू०	मेन्टर इंस्टीट्यूट
16.	इ० कृष्ण रंगराजन, बेंगलोर	इलेक्ट्रानिक्स एण्ड कम्यू०	इण्डस्ट्री एक्सपर्ट
17.	इ० विनोदकुमार यादव, एस०डी०ओ०, वी०एस०एन०एल०, अयोध्या।	इलेक्ट्रानिक्स एण्ड कम्यू०	इण्डस्ट्री एक्सपर्ट
18.	इ० विनीत सिंह, आई०ई०टी०, संस्थान	इनफार्मेशन एण्ड टेक्नो०	आन्तरिक सदस्य
19.	इ० अक्वेष कुमार मौर्य, आई०ई०टी०, संस्थान	इनफार्मेशन एण्ड टेक्नो०	आन्तरिक सदस्य
20.	इ० समृद्धि सिंह, आई०ई०टी०, संस्थान	इनफार्मेशन एण्ड टेक्नो०	आन्तरिक सदस्य
21.	इ० पारितोष त्रिपाठी, आई०ई०टी०, संस्थान	इनफार्मेशन एण्ड टेक्नो०	आन्तरिक सदस्य
22.	इ० रजनीश पाण्डेय, आई०ई०टी०, संस्थान	इनफार्मेशन एण्ड टेक्नो०	आन्तरिक सदस्य

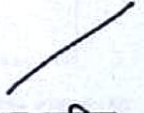
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23.	प्रो० के०वी० आर्या, आई०ई०टी०, लखनऊ।	इनफारमेशन एण्ड टेक्नो०	वाह्य विशेषज्ञ
24.	प्रो० अरुणि सिंह, के०एन०आई०टी०, सुलतानपुर।	इनफारमेशन एण्ड टेक्नो०	वाह्य विशेषज्ञ
25.	प्रो० शफीक अहमद, डॉ०ए०आई०टी०, बेंगलोर।	इनफारमेशन एण्ड टेक्नो०	वाह्य विशेषज्ञ
26.	डॉ० एम० हसन, एम०एम०एम०टी०यू०, गोरखपुर।	इनफारमेशन एण्ड टेक्नो०	वाह्य विशेषज्ञ
27.	डॉ० नन्दिनी, डॉ०ए०आई०टी०, बेंगलोर।	इनफारमेशन एण्ड टेक्नो०	मेन्टर इंस्टीट्यूट फॉ
28.	डॉ० वी०एस० शैलजा, डॉ०ए०आई०टी०, बेंगलोर।	इनफारमेशन एण्ड टेक्नो०	मेन्टर इंस्टीट्यूट फॉ
29.	डॉ० विमलेश सिंह, आई०वी०एम०, दिल्ली।	इनफारमेशन एण्ड टेक्नो०	इण्डस्ट्री एक्सपर्ट
30.	डॉ० पुरेन्द्र पुष्कर, डी०आर०डी०ओ०, अमेठी।	इनफारमेशन एण्ड टेक्नो०	इण्डस्ट्री एक्सपर्ट


कुलसचिव

प्रतिलिपि: निम्नलिखित को बैठक में प्रतिभाग करने के निवेदन के साथ प्रेषित—

1. परीक्षा नियंत्रक।
2. आशुलिपिक प्रति—कुलपति, प्रति—कुलपति महोदय जी के सूचनार्थ।
3. आशुलिपिक, वित्त अधिकारी को वित्त अधिकारी महोदय के सूचनार्थ।
4. पत्रावली।


कुलसचिव



Dr. Nandini PRASAD K S <nandiniks1@gmail.com>

AICTE Expert Visit Committee on 23 June 2016 – reg.

NWRO Chandigarh <nwroaict@gmail.com>

Tue, Jun 21, 2016 at 6:06 PM

To: vastumandala@gmail.com, prof.srb@gmail.com, nandiniks1@gmail.com

Subject: AICTE Expert Visit Committee on 23 June 2016 – reg.

Dear Sir/Madam,

Professor BHADRACHAUDHURI
SEKHAR Ranjan , Mobile No.:
+1(983) 104-3113, Email:
prof.srb@gmail.com

Associate Professor
SHIVAPRASAD NANDINI
PRASAD Kanakapur ,
Mobile No.: +1(973) 139-
7880, Email:
nandiniks1@gmail.com

Architect Mandal
Shallendra Kr , Mobile No.:
+1(943) 162-5553, Email:
vastumandala@gmail.com

This is in reference to the earlier email regarding formation of the Expert Visit Committee. You have been nominated as a member of Expert Visit Committee through online automatic random selection method and consequent upon to your telephonic consent in this matter as a member of Expert Committee consisting of the above members for visit of institution to carry out physical evaluation of infrastructure facility of applicant institutions:-

S.N	Application Number	Institute Name	Institute Address	District	State	Date of Visit	Type of Visit
1	1-2813671982	L. R. POLYTECHNIC	VILL. JABLI-KYAR, P. O. OCHGHAT, SOLAN, 173223	SOLAN	Himachal Pradesh	23-Jun-16	Complaint visit

You are entitled for honorarium of Rs. 8,000/- per day beside reimbursement of your travelling expenses and stay expenses as admissible under the AICTE rules for payment of TA. AICTE has made arrangement for your stay. You are requested **to hire a prepaid taxi from the Airport to the Hotel and vice versa**. The same will be reimbursed in your TA claim on providing of valid taxi receipt, in case you perform the journey by road please enclose paid toll receipts etc

All the members of the Committee are requested to fill the Expert Committee Report format without any blank spaces/columns "Taken into note" and sign in all pages and care should be taken that **no columns are left blank**. The completed Expert Committee Report may be scanned and emailed to ID nwrochandigarh@gmail.com immediately after completion of the visit **on the same day** of the Visit.

Kindly note that the observations made by you in the Expert Committee Report is subject to verification by another Committee, hence you are requested to record factual information based on the physical verification made by you in a more transparent manner as per rules and regulations prescribed in the Approval Process Handbook of AICTE.

The entire visit shall be video recorded and the VCD (alongwith hard copy photos) shall be submitted along with the report. The expert Committee members are requested to play the VCD and ensure that it plays properly and is "Found to be OK and also mention the same runs under which software / media".

The hard copy of **duly verified and signed copy of the report**, VCD & hard copy photographs of the visit alongwith all annexures (**Duly attested by the Chairman/Secretary of the Trust / Society or the Principal/Director of the Institution with sign and official seal**) to be submitted to the Regional Officer in sealed envelope duly signed by the Committee Members on the envelope.

Please note that as per instruction received from AICTE, New Delhi, in case any column is left blank, the report would be considered as incomplete and not done in a fair way. In such cases, the Council may consider to cease the payment of honorarium to the experts involved.

u may send the TA form and other bills/receipts to AICTE NWRO, Chandigarh for reimbursement as per AICTE rules. The bills/the paper-slip receipt rolled out by the ATM should all be duly counter signed with date by the Expert Member.

Before starting for the visit, you are also requested to go through "Guidelines on Expert Committee Visit" & Approval Process Handbook which contains the rules and regulations before conduct of the visit and the same is available at www.aicte-india.org

You are requested not to avail any services or assistance from the institution you are going for the inspection. You are also advised not to accept gift of any nature, even if it is token of welcome gesture from the institution. If the representative of the institution indulges in any unfair means to influence you or any of the members of the committee, you are requested to kindly report the matter immediately to the Regional Office by phone / mail (nwrochandigarh@gmail.com) and AICTE New Delhi by mail (aictevigilance@gmail.com) for taking necessary action. However, the institute has been instructed to make arrangement for video recording and provide internet facility for conduct of the inspection.

Your accommodation is booked in the following hotel:-

Hotel Park Grand

From 22nd June 2016 to 24th
June, 2016

Address: SCO.111-114, Sector 43-B, Chandigarh, 160036

Phone: 0172-464 0011

Further for any queries if any, you may contact Mobile: 84275-89492 (Specially Assigned for EVC)
0172-2661201, 2613326

The Regional Officer, North-West, 087279-55513, shall be contacted for any necessary help if required in this regard in emergency.

Thanks & Regards

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NORTH WESTERN REGIONAL OFFICE

Plot No. 1-A, 5th Floor, DTE (Pb.) Building, Dakshin Marg, Sector 36-A,

CHANDIGARH-160 036

Ph. 0172-2661201, 2613326,

website : <http://www.aicte-india.org>

Mobile: 84275-89492 (Specially Assigned for EVC)



**NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL – 506 004**

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) PHASE – III

CERTIFICATE

This is to certify that Dr. Nandini Prasad K.S, Professor in department of Information Science & Engineering and Nodal Officer (Academic), Dr. Ambedkar Institute of Technology, Bangalore has rendered service as **Proctor** for Student Learning Assessment (SLA) survey under TEQIP-III as per directions from National Project Implementation Unit (NPIU), in collaboration with Stanford University at NIT, Warangal from 26/03/2019 to 27/03/2019.


TEQIP-III Coordinator

NIT, Warangal
Co-ordinator-TEQIP-III



NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to VTU, Belagavi)

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SIXTH INTERNATIONAL CONFERENCE ON "EMERGING RESEARCH IN COMPUTING, INFORMATION, COMMUNICATION AND APPLICATIONS" ERCICA - 2020



SPRINGER

Certificate of Appreciation



We express our special thanks to

Dr. Nandini Prasad K.S. AIT

in Recognition

of being the **SESSION CHAIR** in the Sixth International Conference on 'Emerging Research in Computing Information, Communication and Applications' held during September 25 - 26, 2020, at **NMIT**, Bangalore, India.

Prof. N. R. Shetty
Advisor

Dr. H C Nagaraj
Principal