



Report on

One Week Online Guest Lecture Series “SHODHSARITA”

On

“Recent Trends in Mobile Computing with Real Time Approach”

(Under the aegis of “IETE Pune Centre” and “IEEE Communication Society Pune

Chair”)

at

Department of Electronics and Telecommunication Engineering
Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune



Name of The Programme	One Week Online Guest Lecture Series “SHODHSARITA” On “Recent Trends in Mobile Computing with Real Time Approach” Under the aegis of “IETE Pune Centre” and “IEEE Communication Society Pune Chair”
Date	27 th March 2023 to 1 st April 2023
Mode	Online
Organizer	Department of Electronics and Telecommunication Engineering of Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune
Programme Convenor	Dr. Y. S. Angal, HOD (E&TC)
Programme Co-Ordinator	Asst. Prof. S. V. Malge (E&TC) Asst. Prof. P. V. Gawade (E&TC) Asst. Prof J. Y. Suryawanshi (E&TC)
Participants	39 Participants

The One Week Online Guest Lecture Series “SHODHSARITA” aims to provide opportunities to students to enrich their skill and research in the field of Mobile Computing. The Programme also intends to develop the knowledge of students in the relevant field for inculcating learning values in students. The One Week Online Guest Lecture Series “SHODHSARITA” was attended by 39 students of Electronics and Telecommunication department.

Objective:

Sr. No.	Objective
1	This Guest Lecture Series provides a platform to learn Wireless technologies and planning Ad-hoc Network.
2	An ability to study the basics of wireless, cellular technology and the working of Mobile IP, ad hoc network, features of mobile operating systems.
3	An ability to understand the use of M-Commerce application

Inaugural Session:

Inaugural Session	
Date	27th March 2023
Time	1:45 PM

The esteemed personalities present on the inauguration of the Programme:

Dr. V.V. Shete	Chairman, IETE, Pune Centre	Chief Guest
Dr. M. M. Jadhav	Chair, IEEE Communication Society, Pune Chapter	Chief Guest
Dr. T.K. Nagaraj	Principal, BSIOTR	Host
Dr. Y. S. Angal	HOD(E&TC), BSIOTR	Host

In welcome speech, Hon. Principal Dr. T. K. Nagaraj shared his views with the students' participants that if students want to develop themselves, then attending such Guest Lecture Series would enhance their skills of learning concepts practically. Sir further shared that it helps to improve the performance of students in mobile computing and highlighted the importance and objectives of organizing One Week Online Guest Lecture Series "SHODHSARITA". He briefed the participants about the subjects chosen for the Guest Lecture Series and highlighted the reasons and importance of the same. In the inaugural speech, Hon. Dr. V.V. Shete shared his views on student development. He further added that this Programme will provide special benefits to students. The inauguration Programme ended with vote of thanks by Mrs. Jayshree Suryawanshi.

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S (JSPM's)
BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI PUNE-412207 (BSIOTR)
(Approved by AICTE New Delhi, DTE Mumbai, Govt. of Maharashtra and Affiliated to Savitribai Phule Pune University)
Accredited NBA & NAAC
IEEE ComSoc
Department of Electronics and Telecommunication Engineering
is Organizing one Week FDP (Online) In Association with IETE Pune Center & IEEE Communication Society Pune Chapter

On
"Recent Trends In Mobile Computing With Real Time Approach"
Duration: 27/03/2023 to 1/04/2023
Inauguration Function
In Auspicious Presence of

Dr. T.K.Nagaraj
Principal, JSPM's BSIOTR Pune.

Dr. Makarand M. Jadhav
Chapter Chair, IEEE Communication Society, Pune Center

Dr. V.V.Shete
Chairman, IETE Pune Center

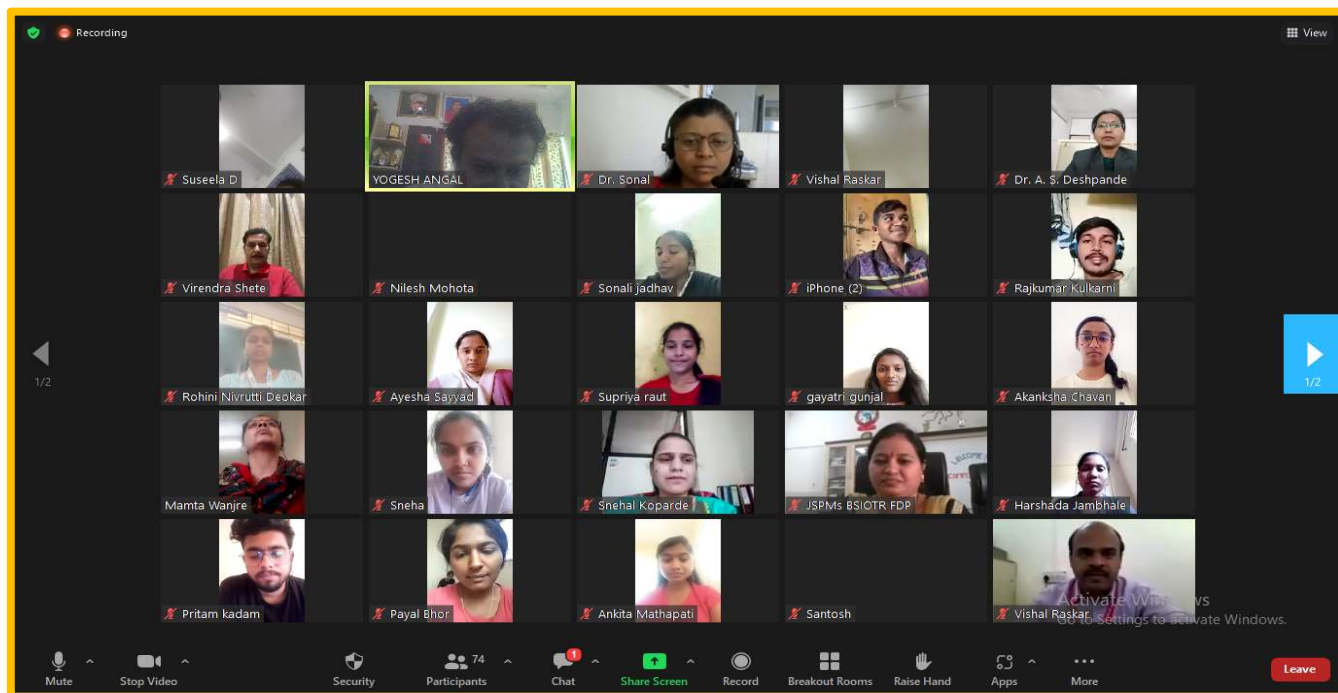
Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

Participants: 59

Unmute Start Video Security Chat Share Screen Pause/Stop Recording Breakout Rooms Raise Hand Apps More Leave

Participants: NAGARAJ TIMALAPUR, Poonam Gawade, Virendra Shete, YOGESH ANGAL, JSPM's BSIOTR FDP, Suseela D.

Inaugural Session of the Guest Lecture Series with Dr. V.V. Shete Chairman, IETE, Pune Centre and Dr. M. M. Jadhav Chair, IEEE Communication Society, Pune Chapter.



Date	27th March 2023 (Day One)
Session	One
Topic	Basic of Mobile Computing
Resource Person	Dr S. K. Jagtap Professor and HOD(E&TC), SKNCOE, Pune
Time	2:00 PM To 3:30 PM

Zoom Meeting

Recording...

- Service Mobility:**
 - User should be able to move from one service to another.
 - Example could be a user is writing a mail. To complete the mail user needs to refer to some other information. In a desktop PC, user simply opens another service (browser) and moves between them using the task bar. User should be able to switch amongst services in small footprint wireless devices like in the desktop.
- Host Mobility:**
 - The user device can be either a client or server.
 - When it is a server or host, some of the complexities change.
 - In case of host mobility the mobility of IP needs to be taken care of.

DEPARTMENT OF ELECTRONICS AND
TELECOMMUNICATION ENGG
11

Dr. Sonal

30°C Sunny

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27-03-2023

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Traffic Telematics Systems

The diagram illustrates a Traffic Telematics System architecture. It includes a Main Office Content Provider, an Internet cloud, Infrastructure (roadside units), and two vehicles (a yellow car and a green car). Communication links are shown with labels: ATM between the Main Office and Internet; GSM, RDS/TMC, DAB between the Main Office and Infrastructure; GSM between the Main Office and vehicles; GSM between the Internet and vehicles; and Radio/Infrared between the Infrastructure and vehicles. A legend defines DAB as Digital Audio Broadcast and RDS/TMC as Radio Data System/Traffic Message Channel. The source is cited as DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.

Dr. Sonal

Unmute Start Video Security Participants 77 Chat 1 Share Screen Pause/Stop Recording Breakout Rooms Raise Hand Apps More Leave

Dr S. K. Jagtap Professor and HOD E&TC), SKNCOE, Pune has delivered an interactive lecture on “Basic of Mobile Computing”. In this session participants were learned the Applications of Mobile Computing- Generations of Mobile Communication Technologies, Multiplexing: Spread spectrum, MAC Protocols: SDMA, TDMA, FDMA, and CDMA.

Date	27th March 2023 (Day One)
Session	Two
Topic	Introduction to 5G & Recent trends in Telecommunication Industries
Resource Person	Dr. Anuradha S. Deshpande Professor, E&TC, JSPM's ICOER Wagholi, Pune
Time	3:30 PM To 5:00 PM

Recording... You are viewing Dr. A. S. Deshpande's screen View Options

JSPM's Bhivarabai Sawant Institute of Technology & Research, Wagholi

Faculty Development Program

Recent Trends in Mobile Computing with Real Time Approach

in Association with IETE & IEEE Communication Society

[27th March to 1st April 2023]

Dr. A. S. Deshpande

Unmute Start Video Security Participants 65 Chat 3 Share Screen Pause/Stop Recording Breakout Rooms Raise Hand Apps More Leave

Recording...

Key Enabling Technologies for 5G

Device Centric Architecture

- Device-centric architecture is an important aspect for fifth generation (5G) networks.
- The current cellular systems are base station-centric where the base-station (BS) is responsible for resource allocation. The BS allocates resources to users based on their channel state information (CSI) and feedback. This resource allocation process increases load at the BS side resulting in more time consumption. This decreases the overall network throughput and increases delay in resource allocation.
- Therefore, a device-centric resource allocation scheme is proposed for D2D users. In this scheme, interested D2D pairs can allocate the resource to themselves.

27
Dr. A. S. Deshpande
3/27/2023

JSPMs BSIOTR F...

JSPMs BSIOTR FDP

Poonam Gawade

Poonam Gawade

Suseela D

Suseela D

Dr. A. S. Deshpande

Harshada Jamb...

Harshada Jambhale

Jyoti Bandal

Jyoti Bandal

An informative lecture on “Introduction to 5G & Recent trends in Telecommunication Industries” was discussed by Dr. Anuradha S. Deshpande Professor, E&TC, JSPM’s ICOER Wagholi, Pune. In this session participants were learned the Introduction of 5G, 5G –Architecture, Key Enabling Technologies for 5G and Recent trends in Telecommunication Industries.

Date	28th March 2023 (Day Two)
Session	One
Topic	Ad-Hoc Networking
Resource Person	Dr. Araddhana A. Deshmukh Head& Associate Professor, AI & DS Department, MMCOE, Pune
Time	2:00 PM To 5:00 PM

Recording

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View Options

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S (JSPM's)
BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI PUNE-412207 (BSIOTR)
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 On

IEEE ComSoc
IEEE Communications Society Pune Section Chapter

IETE
INSTITUTE OF ELECTRONICS & TELECOMMUNICATION ENGINEERS

"Recent Trends In Mobile Computing With Real Time Approach"

Date: 28 March 2023 Day: 2
Timings: 2pm to 5pm

Dr. Prof. T.J.Sawant
Founder Secretary, JSPM Pune

Dr. Araddhana A. Deshmukh
Head & Professor, AI & DS Department MMCOE Pune.
Topic: Ad-Hoc Networking

Hon. Shri. Rushiraj T. Sawant
Director, JSPM Group of Institutes, Pune

Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

YOGESH ANGAL

YOGESH ANGAL

Dr. Araddhana Deshmukh

harsha bhamare

harsha bhamare

Dr. Priyanka Singh

Dr. Priyanka Singh

Suseela D

Suseela D

Sukruti Taori

Sukruti Taori

Poonam Gawade

Poonam Gawade

JSPMs BSIOTR FDP

Trupti Pawase

Trupti Pawase

Anuradha Pandit

Anuradha Pandit

Vipin Vihute

Vipin Vihute

Malge S V

Malge S V

Unmute Start Video Participants Chat Share Screen Record Raise Hand Apps Leave

Recording...

Improved Throughput with Increased Mobility

- **Low speed:** (Route from A to D is broken for ~1.5 seconds)
 - When TCP sender times after 1 second, route still broken.
 - TCP times out after another 2 seconds, and **only then resumes**
- **High speed:** (Route from A to D is broken for ~0.75 seconds)
 - When TCP sender times out after 1 second, route is repaired
- TCP timeout interval somewhat (not entirely) independent of speed
- Network state at higher speed may sometimes be more favorable than lower speed

Participants:

- JSPMs BSIOTR F...
- JSPMs BSIOTR FDP
- Poonam Gawade
- Pooja Ramesh S...
- Pooja Ramesh Sarode
- YOGESH ANGAL
- YOGESH ANGAL
- Dr. Araddhana...**
- Dr. Araddhana Deshmukh
- Bhausaheb Shin...
- Bhausaheb Shinde_20...

Dr. Araddhana A. Deshmukh Head & Associate Professor, AI & DS Department, MMCOE, Pune has delivered an informative lecture on “Ad-Hoc Networking”. In this session participants were taught Mobile IP, DHCP, AdHoc, Proactive protocol-DSDV, Reactive Routing Protocols: DSR, AODV, Hybrid routing: ZRP, Multicast Routing: ODMRP, Vehicular Ad Hoc networks VANET, MANET Vs VANET: Security

Date	29th March 2023 (Day Three)
Session	One
Topic	Mobile IP and Transport Layer
Resource Person	Dr. Vijay M. Birari Professor and HOD(E&TC) NDMVP KBTCOE, Nashik.
Time	2:00 PM To 5:00 PM

Recording...

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BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI PUNE-412207 (BSIOTR)

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Department of Electronics and Telecommunication Engineering

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“Recent Trends In Mobile Computing With Real Time Approach”

Date: 29 March 2023 Day: 3
Timings: 2pm to 5pm

Resource Person for Session

Dr. Vijay M. Birari
Professor and HOD(E&TC),
NDMVP KBTCOE, Nashik
Topic: Mobile IP and Transport Layer

Dr. Prof. T.J.Sawant
Founder Secretary,
JSPM Pune

Hon. Shri. Rushiraj T. Sawant
Director, JSPM Group of
Institutes, Pune

Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

Participants:

- JSPMs BSIOTR FDP
- Poonam Gawade
- Poonam Gawade
- Prof. Nakul Gade
- Prof. Nakul Gade
- YOGESH ANGAL
- Dr. Vijay Birari
- Dr. Vijay Birari
- Redmi Note 7 Pro

Recording... You are viewing Dr Vijay Birari's screen View Options

Overview of Traditional TCP

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Figure 9.2
Socket and state migration after handover of a mobile host

Dr. V. M. Birari 3/29/2023

Unmute Start Video Security Participants 49 Chat Share Screen Pause/Stop Recording Breakout Rooms Raise Hand Apps More Leave

Dr Vijay Birari
Poonam Gawade
Pooja Kolhe
Vibha Upadhyaya
Mahesh Kamble
Mugdha Tamhan

Dr. Vijay M. Birari Professor and HOD(E&TC) NDMVP KBTCOE, Nashik, has illuminated on “Mobile IP and Transport Layer”. In this session participants were gained with the knowledge of the on Mobile IP: Need of mobile IP, IP packet delivery, Agent Discovery, Registration, Tunnelling and encapsulation, Route optimization, IP Handoff. Transport Layer: Overview of Traditional TCP and implications of mobility control. Improvement of TCP: Indirect TCP, Snoop TCP, Mobile TCP, Fast Retransmit/fast recovery, Time-out freezing, Selective retransmission, Transaction-oriented TCP.

Date	30th March 2023 (Day Four)
Session	One
Topic	Mobile System
Resource Person	Dr. R. R. Itkarkar Professor, AISSMS COE, Pune.
Time	11:00 AM To 1:00 PM

Zoom Meeting You are viewing JSPM's BSIOTR's screen View Options

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On

“Recent Trends In Mobile Computing With Real Time Approach”

Date: 30 March 2023 Day: 4 Session: I
Timings: 11am to 1pm

Resource Person for Session-I

Dr.R.R.Itkarkar
Professor, E&TC Dept.
AISSMS COE, Pune
Topic: Mobile System

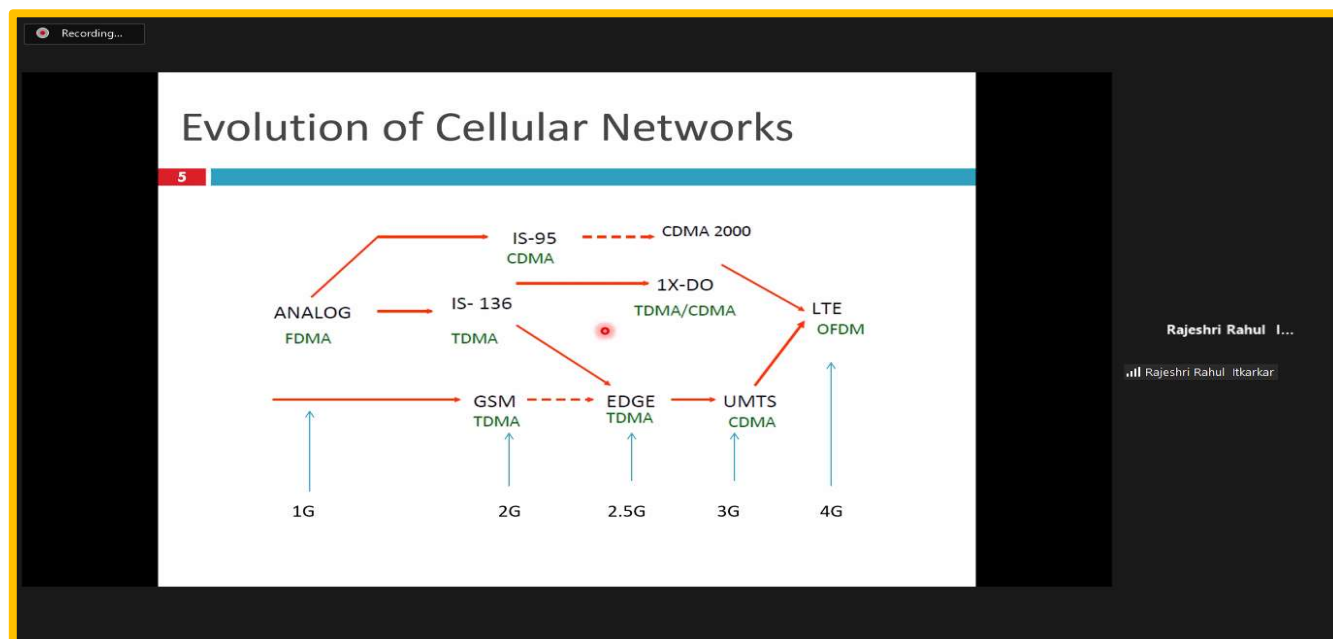
Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

Dr. Prof. T.J.Sawant
Founder Secretary,
JSPM Pune

Hon. Shri. Rushiraj T. Sawant
Director, JSPM Group of
Institutes, Pune

JSPM's BSIOTR FOP
Poonam Gawade
YOGESH ANGAL
Rajeshri Rahul Itkarkar
Ashvini Kale

Unmute Start Video Security Participants 31 Chat Share Screen Pause/Stop Recording Breakout Rooms Raise Hand Apps More Leave



Dr. R. R. Itkarkar Professor, AISSMS COE, Pune has discussed on “Mobile System”. In this session she gave insightful talk on Mobile Systems. Her presentation was both informative and engaging, and participants learned a lot from her expertise on the topic. Participants were gained with the knowledge of the on Introduction to Cellular Systems, GSM architecture, Protocols, Connection Establishment, Frequency Allocation, Routing, Mobility Management, Security, GPRS and UMTS: Architecture, Handover, Security. Introduction to 5G: Introduction, 5G network architecture, Applications, 5G enable technologies, Recent trends in Telecommunication Industries.

Date	30th March 2023 (Day Four)
Session	Two
Topic	Fading Channels
Resource Person	Dr. Gitimayee Sahu Sr.Manager, JIO Platforms Ltd, Mumbai
Time	2:00 PM To 5:00 PM

BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI PUNE-412207 (BSIOTR)
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 On

“Recent Trends In Mobile Computing With Real Time Approach”

Date: 30 March 2023 Day: 4 Session: II
 Timings: 2pm to 5pm

Resource Person for Session-II

Dr. Gitimayee Sahu
 Sr. Manager,
 JIO Platforms Ltd,
 Mumbai

Topic: Fading Channels

Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

Dr. Prof. T.J. Sawant
 Founder Secretary,
 JSPM Pune

Hon. Shri. Rushiraj T. Sawant
 Director, JSPM Group of
 Institutes, Pune

Prem Kumar Patel

Sushil Thakare

aniket kunjaj

Dr. Gitimayee Sa...

YOGESH

mamta koban

Prem Kumar Patel

Sushil Thakare

aniket kunjaj

Dr. Gitimayee Sahu

YOGESH

mamta koban

Activate Windows
Go to Settings to activate Windows.

Recording...

PowerPoint Presentation 2 / 90 81%

5G NR Vs LTE (Similarities & Difference)

What is Similar to LTE?	What is Different from LTE?
<ul style="list-style-type: none"> . OFDM & OFDMA . DFT SC-OFDM for UL . Most Physical Channels . NR procedure- <ul style="list-style-type: none"> -System Acquisition -RACH -Power Control . Carrier Aggregation 	<ul style="list-style-type: none"> . NSA(Non-Standalone) Architecture & EN-DN . CP-OFDM in UL . Flexible SCS(Subcarrier Spacing) & Slot . Wider Channel BW & New Freq Band(mmW spectrum) . Beam Management, Multibeam operation/Beam Sweeping . Physical Channel Changes- <ul style="list-style-type: none"> -New Channels- PTRS, TRS -Removal of PHICH & PCFICH . UL sharing and supplementary uplink.

Dr. Gitimayee Sahu has started screen sharing

Dr. Gitimayee Sahu

Activate Windows
Go to Settings to activate Windows.

Dr. Gitimayee Sahu Sr.Manager, JIO Platforms Ltd, Mumbai has focused on “Fading Channels”. In this session participants were familiar with Rayleigh Fading and Statistical Characterization, Properties of Rayleigh Distribution, BER in Fading, Narrowband vs Wideband Channels, Characterization of Multipath Fading Channels, Choice of Modulation, Coherent versus Differential Detection, BER in Fading, Ricean Fading.

Date	31st March 2023 (Day Five)
Session	One
Topic	Computational Intelligence in Mobile Computing
Resource Person	Dr. Vandana M. Rohokale Prof & HOD(E&TC), SIT's, Narhe, Pune
Time	2:00 PM To 4:00 PM

Recording...

JAYAWANT SHIKSHAN PRASARAK MANDAL'S (JSPM's)

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On

“Recent Trends In Mobile Computing With Real Time Approach”

Date: 31 March 2023 Day: 5
Timings: 2pm to 4pm

Resource Person for Session

Dr. Vandana Rohokale
Prof & HOD(E&TC),
SIT's, Narhe, Pune

Topic: Computational Intelligence in Mobile Computing

Dr. Prof. T.J.Sawant
Founder Secretary,
JSPM Pune

Hon. Shri. Rushiraj T. Sawant
Director, JSPM Group of
Institutes, Pune

Dr. Y.S. Angal (FDP Convener, HOD E&TC, BSIOTR), Contact: 7057150817

YOGESH ANGAL

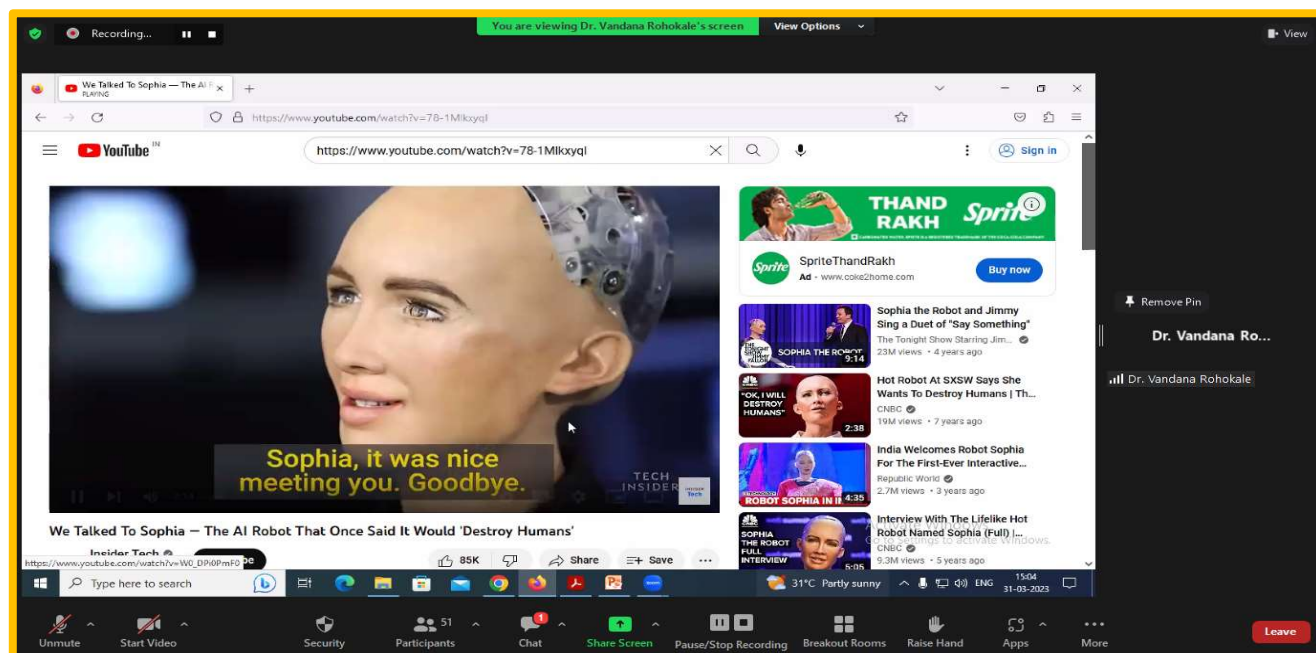
Poonam Gawade

Manisha Rajput

sonali

Dr. Vandana Rohokale

JSPMs BSIOTR FDP



Dr. Vandana M. Rohokale Prof & HOD(E&TC), SIT's, Narhe, Pune has explained “Computational Intelligence in Mobile Computing”. In this session participants realized the significance of Recent Trends in Mobile Computing, CI vs AI, principles Computational Intelligence, AI & ML, Deep learning, Uses of Computational Intelligence, Deep Learning Approach for Interference Mitigation in MIMO-FBMC/OQAM Systems.

Date	1st April 2023 (Day Six)
Session	One
Topic	Operating System & Applications of Mobile Computing
Resource Person	Dr. Makarand M Jadhav Prof & HOD(E&TC), NBN STC, Pune
Time	9:00 AM To 11:00 AM

Feature	Android	iOS	Windows 10	BlackBerry 10
Company	Google	Apple Inc.	Microsoft	BlackBerry Ltd.
License	Free and open-source	Proprietary except for open source components	Proprietary, Commercial Software	Proprietary
OS family	Linux	Darwin	Microsoft Windows	QNX
Supported CPU Architecture	ARM	64-bit ARMv8-A	32-bit ARMv7-A and 32-bit ARMv8-A	ARM
Programed in	C, C++, Java, Kotlin	C, C++, Objective-C, Swift	.NET, C#	C/ C++
Current version				

Design Issues in Mobile O.S

Power Management : Here, Device power management and Processor power management need to be considered.

Battery Management : Mobile OS collects the information about the state of the batteries of the device and inform the user. In case of abnormal consumption or battery discharge due to some application/game, O.S must perform an emergency shutdown keeping the data loss at minimum level.

Thermal Management : As the mobile devices operate with the batteries, Heat Dissipation is also a challenge. It is one of the functions' of the Mobile OS to manage and reduce the power consumption of the devices.

Memory Management : Mobile OS should consume less space in RAM. The designing of structure of Mobile O.S also may help in reducing the memory size and reduce memory outflows. Efficient memory management techniques need to be adopted while designing the mobile OS.

Scheduling : The Mobile OS may adopt the pre-emptive scheduling mechanism. The interrupt latency and dispatch latency must be minimized in mobile OS.

File System : Flash file systems are used in mobile devices. They offer a fast-read access. The file system should adopt the memory management techniques that minimize the fragmentation problem, caching techniques and intelligent re-claim techniques.

Security : Mobile devices also may get infected with worms, Trojan horses or viruses wherein compromising the user's security and privacy. As all the mobile devices are prone to attacks any time, it is therefore the major function of the Mobile OS to provide security mechanisms to address all the security issues.

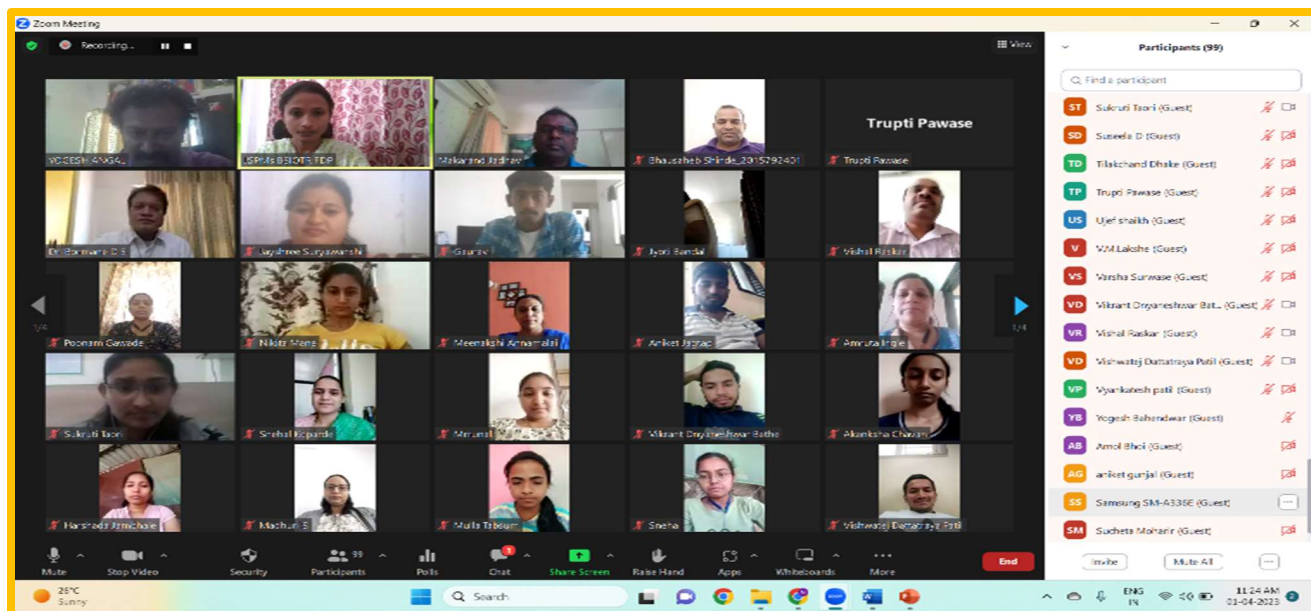
A discussion on “Operating System & Applications of Mobile Computing” was delivered by Dr. Makarand M Jadhav Prof & HOD(E&TC), NBN STC, Pune. In this session participants got the knowledge about Operating System: A Few Basic Concepts, Special Constraints and Requirements of Mobile OS, A Survey of Commercial Mobile Operating Systems, Windows Mobile, Applications: M-Commerce, Business to Consumer (B2C) Applications, Business to Business (B2B) Applications. Structure of M-Commerce, Pros and Cons of M-Commerce, Mobile Payment System, Mobile Payment Schemes, Desirable properties of a Mobile Payment system, Mobile Payment solutions, Process of Mobile Payment, Security Issues.

Valedictory Session:

Valedictory Session	
Date	1 April 2023
Time	11:00 AM

The esteemed personalities present on the Valedictory of the Programme:

Dr. D. S. Bormane	Member, Governing Council, IETE, New Delhi	Chief Guest
Dr. M. M. Jadhav	Chair, IEEE Communication Society, Pune Chapter	Chief Guest
Dr. T.K. Nagaraj	Principal, BSIOTR	Host
Dr. Y. S. Angal	HOD(E&TC), BSIOTR	Host



Valedictory Session of the Guest Lecture Series with Dr. D. S. Bormane Member, Governing Council, IETE, New Delhi and Dr. M. M. Jadhav Chair, IEEE Communication Society, Pune Chapter.



All the personalities appreciated the department for organizing the One Week Online Guest Lecture Series “SHODHSARITA”. The program was ended with vote of thanks by Mrs. Suchipriya Malge, Asst. Prof., Electronics & Telecommunication Dept., JSPM’S BSIOTR & Coordinator of the One Week Online Guest Lecture Series “SHODHSARITA”. The One Week Online Guest Lecture Series “SHODHSARITA” received a lot of positive feedback from students. There were 39 enthusiastic participants in total, who took part in the 6-day online One Week Online Guest Lecture Series “SHODHSARITA”. Each session was of Minimum 90 minutes & Maximum 180 minutes and included open questions, answer session. Zoom meeting was the platform used for each session links (Zoom Meeting <https://us02web.zoom.us/j/83443301126?pwd=c1V6eWdDUU9BcDVLmWVjZHI5YU5xUT09>); feedback links were shared, MCQ Test was conducted at the end of One Week Online Guest Lecture Series “SHODHSARITA”. The registered participants were engaged in a special WhatsApp group. The recordings are being uploaded on the Google Drive. (https://drive.google.com/drive/folders/1E0-QfZB-is5pqj51jJKe4m85nnD7FebA?usp=share_link). 39 E-certificates were awarded to all registered participants by sharing Google Drive Link. The One Week Online Guest Lecture Series

“SHODHSARITA” was concluded on the tanks giving note to the Chief Guest, Management, Campus Director, Principal, Deans and all the Participants.

Sample Certificate:








Outcome:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity.

Sr. No.	Outcome	PO	PSO
1	Understand concepts of Mobile Communication.	PO1	PSO1
2	Analyze next generation Mobile Communication System	PO2	PSO2
3	Understand network layers of Mobile Communication	PO1	PSO1
4	Understand IP and Transport layers of Mobile Communication	PO1	PSO1
5	Study of different mathematical models	PO2, PO3, PO4, PO5	POS3
6	Understand different mobile applications.	PO11, PO12	PSO3

Sr. No.	Outcome
1	Understand concepts of Mobile Communication.
2	Analyze next generation Mobile Communication System
3	Understand network layers of Mobile Communication
4	Understand IP and Transport layers of Mobile Communication
5	Study of different mathematical models
6	Understand different mobile applications.

Programme Co-Ordinator	Asst. Prof. S. V. Malge (E&TC) BSIOTR	
	Asst. Prof. P. V. Gawade (E&TC) BSIOTR	
	Asst. Prof. J. Y. Suryawanshi (E&TC) BSIOTR	
Programme Convenor	Dr. Y. S. Angal, HOD (E&TC), BSIOTR	 Dr. Y. S. Angal.
Principal	Dr. T. K. Nagaraj, Principal, BSIOTR	

PRINCIPAL
J S.P.M.'S Bhlvarabai Sawant Institute of
Technology & Research
Wagholi, Pune- 412207

