



**JSPM's BHIVRABAI SAWANT INSTITUTE OF
TECHNOLOGY AND RESEARCH**
Wagholi, Pune.



REPORT ON
Visit to Seminar on
“5G Insights- Transforming the future of Communications”
Organized by TRAI Regional Office-Bengaluru
(Under IETE student Forum (ISF))

At
The Hotel Aurora Towers, Pune

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| Name of The Program | Seminar on “5G Insights- Transforming the future of Communications” (Under IETE student Forum (ISF)) |
| Date | 9 th August 2023 |
| Mode | Offline |
| Organizer | Department of Electronics and Telecommunication Engineering of Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune |
| Program Convener | Dr. Y. S. Angal, HOD (E&TC) |
| Program Co-Ordinator | Asst. Prof. P. V. Gawade (E&TC), IETE faculty Coordinator, BSIOTR |
| Participants | 4 Faculties (prof. P.V.Gawade, Prof. Nilesh Mohota, Prof. M.S. Sonune, Prof. J.Y.Suryawanshi) and 37 students (TE & BE E&TC) |

Program Objective:

| Sr. No. | Program Objective |
|----------------|--|
| 1 | To Evolution of 5G |
| 2 | To understand 5G network and 5G-Advanced |
| 3 | To understand communication importance in AI/ML. |

Program Outcome:

| Sr. No. | Outcome | PO | PSO |
|----------------|---|--------------------------|---------------------|
| 1 | Evolution of 5G | PO1, PO2,PO3,PO4,PO8 | PSO1, PSO2, PSO3 |
| 2 | 5 G Network and Use Cases and Differentiate between network generations with 5G | PO1,PO5,PO6,PO7, PO12 | PSO1,PSO2 |





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| 3 | Enterprise use case for 5G and understand the 5G and 5G advanced network with different parameter | PO1,PO2, PO5,PO6,PO7, PO12 | PSO1,PSO3 |
| 4 | AI & Other Technologies Driving 5G-Advanced & Beyond | PO1, PO3, PO4, PO5,PO12 | PSO1, PSO2 |

Introduction:

The fifth-generation cellular communication system technology i.e. 5G is the rage today among telecom operators and all other industries that will benefit from it. 5G is expected to offer an excellent user experience irrespective of application, device or service. It can connect a higher density of devices at a much faster speed at reduced latency or lag. Although we have already embarked on the 5G era, some legacy networks are still serving the needs of connectivity in some parts of the world. 5G New Radio (NR) and 5G Core (5GC) evolution is continuing in 3GPP toward 5G-Advanced (5G-A). This will ensure the success of 5G systems globally and expand the usage of 3GPP technology by supporting different use cases and verticals. The industry waits in anticipation for Release 18 in 2024, which will be dedicated to 5G-standardization. The vast network of interconnectivity enabled by Internet of Things (IoT) technology is gaining momentum. It is a catalyst for enhancing AI and ML capabilities, data analysis in real-time, industrial solutions, advanced security, edge computing, centralized connectivity, data management, etc., collectively enabling more efficient operations. The seminar was conducted in five sessions. First session was inaugural session, the Chief Guest Shri D.S. Bormane (Vice President IETE, New Dehli), Shri Mahendra Shrivastav (Advisor at TRAI) and Shri Brajendra Kumar (Advisor at TRAI) shared lot of information with students.

Schedule of seminar:

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|  सात्वतेव जयते | Seminar On 5G Insights – Transforming the Future of Communications by TRAI Regional Office – Bengaluru |  |
| 09 th August 2023, Time: 10:00 hrs to 17:00 hrs | | |
| Venue: The Hotel Aurora Towers, Pune, | | |
| Timings | Session | |
| 10:00 to 10:15 hrs. | Registration | |
| 10:15 to 10:45 hrs. (Duration 30 min.) | Inaugural session- Welcome address by Sh. Brajendra Kumar, Advisor TRAI RO Bengaluru Keynote address by Chief Guest | |
| 10:45 to 11:00 hr. | Tea Break | |
| 11:00 to 13:30 hrs. (Duration -150 min. 75 min. each speaker) | Session- 1 5 G Network and Use Cases Speaker: Shri R Venkateswaran Senior Vice President, Persistent Systems, Pune Session 2: Enterprise use case for 5G Speaker: Shri Makarand Kulkarni | |

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| | Sankhya Labs, Bengaluru |
| 13:30 to 14:30 hrs. | Lunch |
| 14.30 to 15.45 hrs. (Duration -75 min.) | Session- 3 AI & Other Technologies Driving 5G-Advanced & Beyond Speaker: Dr. M H Kori Vice - President, IETE New Delhi, Distinguished Fellow of IETE, Past Chairman IETE Bangalore Centre, Former Technical Director Alcatel-Lucent Technologies |
| 15:45 to 16.00 hrs. | Tea Break |
| 16.00 to 17:00 hrs. (Duration -90 min) | Session– 4: Evolution of 5G Speaker : Shri V Kendurkar Deputy Director General Department of Telecommunications Maharashtra LSA, Pune |
| 17:00 hrs | Vote of thanks |

GLIMPSES OF THE SEMINAR:



'Deep Prajwalan' by Shri Mahendra Shrivastava
Advisor at TRAI with Pranita Gadhave and
saniya Walkikar(BSIOTR students)



'Deep Prajwalan' by Dr. D. S. Bormane,
Vice President IETE, New Dehli with Pranita
Gadhav(BSIOTR student)



Shri Mahendra Shrivastava shared knowledge with participants.



All resource persons with faculties and students (ISF) of JSPM's BSIOTR, Wagholi.





By attending seminar students were able to understand the network generation and what 5G networks are. This visit may be useful for students in Academic subjects like Cellular Network (CN) and Mobile computing (MC) of TE and BE of E&TC. The seminar was concluded with vote of thanks.

All are Thankful to management of JSPM for providing bus facilities and to give permission to attend this seminar.

Prof. P. V. Gawade
ISF Faculty Co-Ordinator

Dr. Y. S. Angal
HOD

Dr. T. K. Nagaraj
Principal

PRINCIPAL
Bhivarabai Sawant Institute Of Technology & Research
Wagholi, Pune- 412207.

Student Attendance:

Semester: 03
 SC Institute - Transforming the Future of Communities by TRII Regional Office Bangalore
 (Venue: The Hub at Aerov Towers, Pune)

| Sr. No. | Students Name | Class | Out Sign | In sign |
|---------|---------------------------------|-------|--------------------|--------------------|
| 1 | WASHANU CHAUDHARI | DE | A | A |
| 2 | TUPSONDARE RAUNANDINI PARIKUMAR | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 3 | ADITI ANSHWARAYA SURIAS | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 4 | THAKARE VAISHNAVI AGADFO | DE | A | A |
| 5 | VADAK KUNAL VIJENDRA | DE | A | A |
| 6 | MANE RUTIKA KALAS | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 7 | SHARADHA BADE | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 8 | LANDAVE KISHOR RAMIDAS | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 9 | PATIL YUVRAJ RAJARAM | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 10 | MANE NIKITA NILESH | DE | A | A |
| 11 | GAT SHEETAL RADAR | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 12 | ASKALRA DHAMANI | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 13 | WAGHMUDE MAHESH NAMDEV | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 14 | MULANI MUSTAKIN MAJIDUDDIN | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 15 | GADGE ARJAYAWANT DHIRVRAO | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 16 | TELKACHAND DHIRAJ | DE | TU Dhake | TU Dhake |
| 17 | PANDE RUSHKESH LAXMAN | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 18 | HOLKAR MANISH MUKUND | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 19 | KAKADE PRANITTE ARJUN | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 20 | KARIT KAMLESH RAJENDRA | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 21 | NAIR ANSALI RAJAN | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 22 | NIKAM VISHVAJHA SUTHIKAR | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 23 | PESHAVE MADHURA SANJAY | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 24 | PHAD GAYTRI HARISHANU | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 25 | PRANTHA JALINDAR GADHIAVE | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 26 | RAMBHADE RUSHITA YOGESH | DE | <i>[Signature]</i> | <i>[Signature]</i> |

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|----|-------------------------------|----|--------------------|--------------------|
| 27 | RODE ASHWINI TANAJI | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 28 | ROKADE SAKSHI ANI | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 29 | SAYYED MUKAN RASULSAB | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 30 | SHARJI L. NIKITA NITIN | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 31 | SHITOLE SHIVANI MINANATH | DE | A | A |
| 32 | SONAWANE SHILPA SUNI | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 33 | SOPANE DNYANESHWARI SAHEBRAO | DE | A | A |
| 34 | TALE PRATIK SUTIASHIRAO | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 35 | WALKIKAR SANTYA DINESH | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 36 | YENGE ANTESHWAR SAMOHV | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 37 | KULKARNI PARJANYA PRAVON | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 38 | PAWAR SAMRUDDHI PRAKASH | DE | <i>[Signature]</i> | A |
| 39 | SINGH SUNDARAM BRAJESH | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 40 | THAKUR ASHUTOSH RAM | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 41 | ABHILEET TATYASAHEB CHAUDHARI | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 42 | AVINASHI BHARAT GHALME | DE | <i>[Signature]</i> | <i>[Signature]</i> |
| 43 | PHANVITA CHOLRE | DE | <i>[Signature]</i> | <i>[Signature]</i> |

44 Shaikh Ujeif DE
 45. P. Pratik Chavre SE