

Workshop on

Radio Transmission Antennas

DATE: 10th March 2022



“Education for Knowledge, Science and Culture”
-Shikshah Maharshi Dr. Bapuji Salunkhe
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)
INTERNAL QUALITY ASSURANCE CELL
2021-22



Quality Initiatives/ Activities Report

- 1. Name of Department:** ELECTRONICS
- 2. Name of Organized Activity:** Workshop on “ Radio Transmission Antennas”
- 3. Date/ Duration:** Thursday, 10/03/2022 at 11:30am to 05:30pm
- 4. Aims and Objectives:**
 - 1) To provide the fundamental knowledge of RF Antennas
 - 2) To familiar with antenna design software
 - 3) To get hands-on training on Directional Antennas
 - 4) To get information about job opportunities in antenna design field in various sectors
- 5. No. of beneficiaries:** Total 35 participants have been registered for this workshop, which includes other college faculty members.
- 6. Expenditure & funding agency:/collaborators:** Funding Amount is 7102/- provided by The RUSA.
- 7. Brief description:** Department of Electronics has organized a Workshop on “Radio Transmission Antennas”. The Resource persons for this program were Dr. Ganesh Waghmare and Dr. P. U. Lande.

In the first session Dr. P. U. Lande, Head Department of Electronics, Rajaram College, Kolhapur gave the keynote address, he elaborated on the journey from the origin of antennas to the present days smart antennas. Also in the final session, he presented the issues of exchange of radio waves, their measurement and drawing of radiation pattern etc. to the teachers present from various colleges through live demonstrations.

Also the Resource person of the second session of this workshop, Dr. Ganesh Waghmare, Senior Antenna Engineer, Intel, Bangalore provided



detailed guidance on how the design of antennas used in current technologies like 4G, 5G, Bluetooth, IoT, GPS, GSM etc. can be done with the help of software. He also informed about the various job opportunities available in this field nationally and internationally.

In the presidential speech, Principal Dr. R. R. Kumbhar gave detailed guidance to the audience about the new education system and the changes that need to be made in the education system. He also appealed to other colleges to take advantage of the various modern equipments in their colleges.

The introduction of this event and welcome to all people was done by the convener of this workshop and the head of the department, Dr. C. B. Patil. Introduction of the guests was done by Prof. N. P. Mote and Prof. P. R. Bagade. Dr. M. S. Patil proposed the vote of thanks to all dignitaries, guests and participants. Anchoring of this workshop was done by Dr. Poonam Jadhav and Mr. G. B. Jirage. Mr. Rohit Nigave and Mr. M. D. Hiremath take account of technical support for this workshop.

8. **Outcomes:**

1. In this workshop participants acquired knowledge about antenna basics, antenna mathematics and radiation mechanism of antenna.
2. Participants have got knowledge about Antenna design simulation software -CTS studio suite .
3. Participants were able to perform the antenna experiments.



9. Photos:

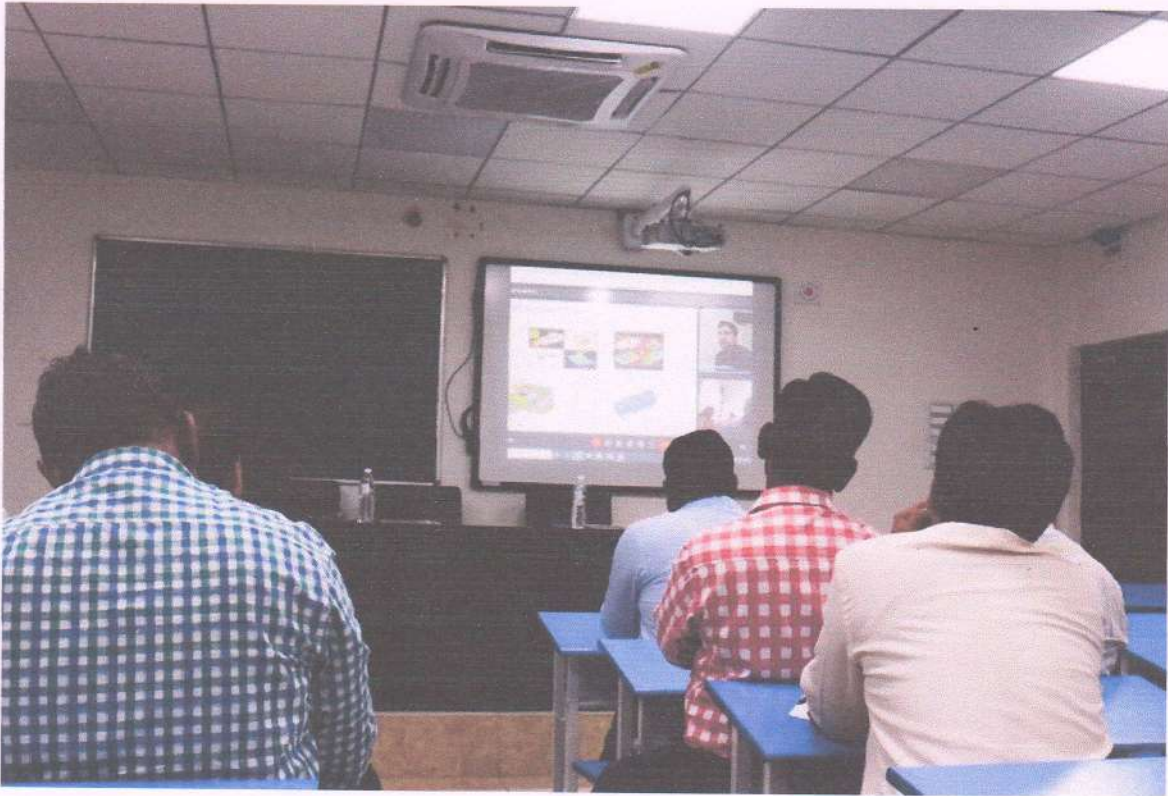


Inauguration by Prin. DR. R. R. Kumbhar and Chief Guest Dr. P. U. Lande



Key-note address by Dr. P. U. Lande, Rajaram College, Kolhapur





Speech by Dr. Ganesh Waghmare, Senior Antenna Engineer, INTEL, Bangalore



Practical Training by Dr. P. U. Lande, Rajaram College, Kolhapur





Participants of Workshop on "RadioTransmission Antennas"

10. Signatures of coordinator/ organizer:

Head
Department of Electronics
Vivekanand College, Kolhapur.



Senior Electronics
Department
Date: 03/03/2022

To,
The Principal,
Vivekanand College, Kolhapur (Autonomous)

Sub: Permission to organize one day workshop on "Radio
Transmission Antennas"

Respected Sir,

Department of Senior Electronics going to organize one day workshop on "Radio Transmission Antennas" on Thursday, 10th March 2022 in two sessions. The objective of this workshop is to familiar with the transmitting and receiving properties of different Antennas. The resource persons for this workshop are Dr. P. U. Lande, Rajaram College, Kolhapur and Dr. Ganesh Waghmare, Senior Antenna Engineer, Intel Bangalore. The lump sum expenditure for this workshop would be around Rs.8500/- (Eight thousand five hundred rupees) as described below.

Remunerations (two resource persons x 1000)	= 2000/-
Certificate (DTP & Printing)	= 700/-
Breakfast & Lunch (40 persons x 120)	= 4800/-
Contingency	= 1000/-

So please give the permission to conduct above activity.

Thanking You,

Yours Faithfully

(Dr. C. B. Patil)

Head

Department of Electronics
Vivekanand College, Kolhapur.

Allowed
Pr
31/3/2022

आदर सभ्य सल्लाह FDP अंतील करावा

Pr
डॉ. सी. बी. पाटील





Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

2130, 'E' Tarabai Park, Kolhapur, Tal. Karveer, Dist. Kolhapur-416003
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D. Lit.

President
Hon. Chandrakant Dada Patil
MLA

Chairman
Prin. Abhaykumar Salunkhe
M.A.

Secretary
Prin. Mrs. Shubhangi Gavade
M.Sc., B.Ed.

Principal
Dr. R. R. Kumbhar
M.Sc. M.Phil. Ph.D.

Ref. No. VCK/ 2023/2021-22

Date : 4/3/2022

To,
Dr. P. U. Lande
Head, Department of Electronics,
Rajaram College, Kolhapur.

Subject: Invitation as a Resource person for one day workshop on
“Radio Transmission Antennas”

Respected Sir,

It gives us an immense pleasure to invite you as Resource person for One Day Workshop on “Radio Transmission Antennas” on Thursday, 10th March 2022 at 11:30 am. organized by Department of Electronics Vivekanand College, Kolhapur (Autonomous)

We will be highly obliged if you accept our invitation and add grace to the program.

Thank you.

Yours faithfully

(Dr. C. B. Patil)

Workshop Coordinator

(Dr. R. R. Kumbhar)
PRINCIPAL
Vivekanand College
Kolhapur





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Principal
Dr. R. R. Kumbhar
M.Sc. M.Phil. Ph.D.

Ref. No. VCK/ 2023/2021-22

Date : 4/3/2022

To,
Dr. Ganesh Waghmare
Senior Antenna Engineer,
Intel, Bangalore.

Subject: Invitation as a Resource person for one day workshop on
“Radio Transmission Antennas”

Respected Sir,

It gives us an immense pleasure to invite you as Resource person for One Day Workshop on “Radio Transmission Antennas” on Thursday, 10th March 2022 at 11:30 am. organized by Department of Electronics Vivekanand College, Kolhapur (Autonomous)

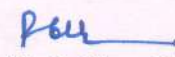
We will be highly obliged if you accept our invitation and add grace to the program.

Thank you.


(Dr. C. B. Patil)

Workshop Coordinator

Yours faithfully


(Dr. R. R. Kumbhar)
PRINCIPAL
Vivekanand College
Kolhapur





Ganesh Waghmare

RF Antenna Engineer

PhD with 4 years experience in Antenna design, testing and integration for consumer electronic devices. 3D EM simulation expert in CST, HFSS, Matlab, AWR. Strong working experience to provide product certification, RF circuit design, in-house antenna prototype design, LTE, 5G, Wi-Fi 6E, mmWave, antenna matching network design, EMC/EMI test and analysis. Good understanding of transmission line theory, 3GPP standards, EM propagation, path loss calculations, antenna optimization, RF product development, project management and customer support.

✉ eln.ganesh@gmail.com

☎ +91 8766462090

📍 Sanjana Bridhavan A 309, Kasavanahalli, Bangalore, India

🌐 [linkedin.com/in/ganesh-waghmare-ph-d-24b45874](https://www.linkedin.com/in/ganesh-waghmare-ph-d-24b45874)

WORK EXPERIENCE

Antenna Design Engineer Intel Bangalore

09/2021 - Present

Bangalore, India

Achievements/Tasks

- Working on 5G mmwave antenna designs targeted for Laptop and Tablet applications.

Antenna Engineer Ignion

06/2018 - 07/2021

Barcelona, Spain

Achievements/Tasks

- Experience in Chip and Embedded antenna design for GSM, LTE 2G/3G/4G/5G, GPS, Bluetooth, Wi-Fi, NB-IoT antennas.
- Experience in high frequency electromagnetic simulation, dual band and multiband antenna design, antenna characterization with VNA, anechoic chamber and spectrum analyzer.
- Effectively coordinated with 100+ clients from EMEA, Asia and North America. Demonstrate the capability of our products and help them to achieve AT&T TRP target and certifications.

Validation Engineer S&T Motiv

03/2107 - 12/2017

Busan, South Korea

Achievements/Tasks

- Experience in Instrument Cluster Panels for hardware validation. EMC/EMI test electrical/electronic specifications.
- Specific test conducted for bulk current injection, near field and far field, Radiation pattern, Portable transmission, Power on mode.

CERTIFICATES

- Two weeks certified course of ANSOFT HFSS from "International Centre for Radio Science" India, Oct 2014.
- SP6105-Microwave Radio Antenna Link Fundamentals, online course from Commscope Infrastructure Academy 2020.
- SP6000 - Understanding the RF Path, online course from Commscope Infrastructure Academy on 11th Oct 2021.
- WR9610 - Looking after LTE Infrastructure, Looking Forward to 5G, Oct 2021.

EDUCATION

PhD Antennas

Shivaji University Kolhapur, India

10/2013 - 03/2016

MSc Electronics

Shivaji University Kolhapur, India

07/2011 - 03/2013

SKILLS

- Antenna design
- EM Simulations
- Antenna testing
- HFSS
- CST
- Optenni lab
- AWR
- VNA
- Matlab
- Anechoic chamber
- Antenna prototype design
- Product development
- Customer support
- RF circuit design

RESEARCH PAPERS HONOR AND AWARDS

4 papers published in national and international journals, 8 papers presented in national seminar/conference.

Name of the institution that issued/awarded it

First Rank in AVISHKAR project competition (2013 - 2014)

Shivaji University Kolhapur, MS, India

Silver paper award in International Conference on Advanced Technologies for Societal Applications (2016)

Shree Vitthal Education and Research Institute college of Engineering Pandharpur M.S, India

• Guest speaker, in "Vigyan Vishwa" program on Use of Electronics in Industrial and Biomedical Applications (23rd June and 30th June 2015)

All India Radio, Kolhapur Station

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

PROJECT HIGHLIGHTED

Antenna for warble devices, Smart watch, Vending machine, Mobile, Bluetooth module, Laptop, PC dongle, Drones, VR helmet, BLE beacon, IoT devices, Camera, Smart meter, Parcel tracker etc.

INTERESTS

- Research and development
- Electronic Circuit design
- Electromagnetic simulations
- Antenna Testing



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Principal

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Ref. No. VCK/ 2023/0021-22

Date : 4/3/2022

To,
The Principal,
All Affiliated Science Colleges,
(B.Sc. Electronics)
Shivaji University, Kolhapur

Subject : Regarding One day Workshop on “Radio Transmission Antennas”

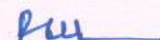
Dear Sir/Madam,

We are pleased to inform you that we are organizing *One day Workshop on “Radio Transmission Antennas”* on *Thursday, 10th March, 2022* at Vivekanand College, Kolhapur.

Kindly inform to all the Electronics Faculty members of your college to attend physically for the workshop. Every participant should register using the link <https://forms.gle/buU4eH771cYapF1L9> on or before Wednesday, 9th March, 2022. There will be no registration fees. The participants will get certificate after attending all the sessions and filling feedback form. The workshop will start at 11:30 A.M. Venue: Room No. 19, Vivekanand College, Kolhapur.

Expecting your whole hearted co-operation.

Contact details in this regards,
Convener,
Dr. C. B. Patil
Department of Electronics,
Contact No. 9922049750


(Dr. R. R. Kumbhar)
PRINCIPAL
Vivekanand College
Kolhapur





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Department of Electronics Organizes

One Day Workshop on

"RADIO TRANSMISSION ANTENNAS"

SPONSERED by RUSA

Programme Schedule (Offline) Venue: Room no. 19, Vivekanand College, Kolhapur
On 10th March 2022

Inauguration & Welcome : 11:30am to 12:30am

Inauguration by chief guest : Dr. P. U. Lande
(By watering the plant) Head, Department of Electronics
Rajaram College, Kolhapur

Introduction and welcome : Dr. C. B. Patil
of the guest Head, Department of Electronics
Vivekanand College, Kolhapur

Keynote Address : Dr. P. U. Lande
Head, Department of Electronics
Rajaram College, Kolhapur

Presidential Address : Prof. (Dr.) R. R. Kumbhar
Principal, Vivekanand College, Kolhapur

Vote of Thanks : Mr. P. R. Bagade
Assistant Professor, Vivekanand College, Kolhapur

First Session : Dr. Ganesh Waghmare
(02:00 pm To 05:00 pm) Senior Antenna Engineer
12:30 PM To 01:30 PM Intel, Bangalore

Lunch break : 01:30 pm To 02:00 pm

Second Session : Dr. P. U. Lande
(02:00 pm To 05:00 pm) Head, Department of Electronics
Rajaram College, Kolhapur

Valedictory Function : 05:00 pm to 05:30 pm

"Dissemination of Education for Knowledge, Science and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

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**RUSA Sponsored
One-Day Faculty Development Programme on
"RADIO TRANSMISSION ANTENNAS"**

Organized by

DEPARTMENT OF ELECTRONICS

Date: Thursday, 10th March 2022 **Venue:** Room no. 19, Vivekanand College, Kolhapur.

Programme working Schedule

Time	Inauguration & Key note address
11:30 AM To 12:30 PM	<p>Introduction : Dr. C. B. Patil, Associate Professor, Department of Electronics,</p> <p>Presidential Address : Prof. (Dr.) R. R. Kumbhar, Principal, Vivekanand College, Kolhapur(Autonomous)</p> <p>Chief Guest Address (Key Note Address) : Dr. P. U. Lande Head, Department of Electronics, Rajaram College, Kolhapur.</p> <p>Resource Person : Dr. Ganesh Waghmare Senior Antenna Engineer, Intel, Bangalore.</p> <p>Vote of thanks : Mr. P. R. Bagade, Assistant Professor, Department of Electronics,</p> <p>Anchoring : Dr. P. S. Jadhav Assistant Professor, Department of Electronics,</p>



Technical Sessions

Session – I: 12.30 pm to 1.30 pm.	Introduction of Guest: Mr. N. P. Mote, Assistant Professor, Department of Electronics,
	Resource Person: Dr. Ganesh Waghmare Senior Antenna Engineer, Intel, Bangalore.
	Topics: 1. RF and antenna basics 2. Current antenna developments – 4g, Bluetooth, IoT, GPS etc. 3. Future antenna developments (5g) 4. Antenna simulation tools HFSS, CST introduction 5. Job opportunities in antenna and RF field
	Vote of Thanks: Mr. G. B. Jirage Assistant Professor, Department of Electronics,
1.30 pm -2.00 pm	Lunch Break
Session – II: 2.00 pm to 5.00 pm	Introduction of Guest: Mr. P. R. Bagade, Assistant Professor, Department of Electronics,
	Resource Person: Dr. P. U. Lande Head, Department of Electronics, Rajaram College, Kolhapur.
	Topics: 1. Demonstration of RF generators 2. Introduction to RF Transmission Antennas 3. Demonstration of Antenna Transmission and Reception 4. Demonstration of plotting of radiation pattern using software 5. Optical Fiber communication
	Vote of Thanks: Dr. M. S. Patil Assistant Professor, Department of Electronics,
Valedictory Function- 5.00 pm to 5.30 pm	Presidential Address: Prof. (Dr.) R. R. Kumbhar, Principal, Vivekanand College, Kolhapur(Autonomous) Vote of Thanks: Dr. M. S. Patil Assistant Professor, Department of Electronics,





Registration For One day workshop on "Radio Transmission Antennas"

Date: 10/03/2022

Sr. No.	Name of the Faculty	Name of College	Designation	Email ID	Contact No.	Sign
1	Vikas B. Gaikwad	S.G.M. College, Karad	Asst. Prof.	vikasbgai@kward2019@gmail.com	9921484803	
2	Amit S. Athanikar	The New college, Kup	Asst. prof.	amitathanikar@gmail.com	9822311296	
3	Mr. Dnyandeo Akhambhade	D.K.A.S.C. college, Ichal.	Asst. prof.	79david950@gmail.com	9921059979	
4	Mr. Parvath Belasakeb Mathikalli	D.K.A.S.C. College, Ichalkaranji	Asst. Prof.	parvathmathikalli007@gmail.com	9765559557	
5	Mr. Gaikwad Siddheshwar Vitthal	Shardachandra Pawar Mahavidyalaya, Lonand.	Asst. Prof.	SV919369@gmail.com	9511873266	
6	Dr. Khaja Dada Atax	The New college Kolhapur	Asst. prof.	akdnck@newcollege.ac.in	9921825784	
7	Dr. S.V. Kulkarni	Derchand college.	—	svk.ehr@gmail.com	9743781055	
8	Mr. G.D. Nerle	Derchand College	—	gdn.ehr@gmail.com	994974575	
9	Dr. H.P. Gaikwad	S.M.D.B.S College, Miraj	Asst. Prof.	herambgaikwad01@gmail.com	9766887202	
10	Mr. N.M. Kumbhare	S.M.D.B.S College, Miraj	Asst. Prof.	knishad11@gmail.com	9545849625	
11	Mr. V.D. Nivadekar	S.C.M.K., Katoli	Asst. Prof.	vishwanath9533@gmail.com	9503677482	
12	Mr. D.B. Padil	The New, college Kolhe	Asst. Prof.	charashree.padil13@gmail.com	9503595056	





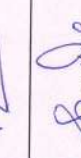


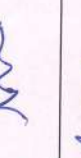

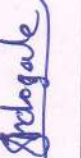

Registration Form for One day workshop on "Radio Transmission Antennas"
Date: 10/03/2022

Sr. No.	Name of the Faculty	Name of College	Designation	Email ID	Contact No.	Sign
13	Vinod Shankar Patil	Willingdon College Sangli	Assistant Professor	nsparth1.sangu@gmail.com	9890601265	
14	Ghatage. Subhas Ganeshwarrao	G. K. G. College, Kolhapur	ASST. PROF.	GhatageS@gmail.com	9423043033	
15	Shri. Kumbhar Navanath Narayan	Mudhoji college, Phaltan	Asst. prof.	KumbharNavanath@gmail.com	9423811575	
16	Miss. Bargale Niteen.	V. C. K	—	nitaluravanshi@gmail.com	9922266333	
17	Vaishali c Dalvi	—	—	vd2471@rediffmail.com	9922173780	
18	Samreddhi S - Patil.	—	—	patilsamreddhi995@gmail.com	7410074550	
19	Nadiya D. Patel	—	—	nadia.patel736@gmail.com	9766742233	
20	Radhika M. Patil	—	—	patilradhika1987@gmail.com	9689423098	
21	R. R. Mahé	—	—	rajshane78@gmail.com	9890822720	
22	Pallavi M. Dessai	—	—	pallavipati03@yahoo.com	9422075431	
23	Smt. Sanwade m.s.	Yashwantrao Chavan College of Science, Karad	—	godeaseul8@gmail.com	9422626309	
24	Ashwini S. Patil.	Willingdon College, Sangli.	—	ASpati1765@gmail.com	8149060855	



Registration Form One day workshop on "Radio Transmission Antennas"

Date: 10/03/2022

Sr. No.	Name of the Faculty	Name of College	Designation	Email ID	Contact No.	Sign
25	Asst Abbas Mulis	Yashwantrao Chavan College of Science (Coastal)	Asst. Professor	mulla.abbas@gmail.com	976663713	
26	Namdev P. Mote	Vivekanand College Kolhapur	Asstt. Prof.	motenamdev@gmail.com	9921990399	
27	Goutam B. Jirage	—	Asst Prof	gjirage@gmail.com	8668633642	
28	Milind S. Pahl	Vivekanand College	Ass. prof	pmilind1978@gmail.com	9921991299	
29	Pravin R. Bagade	—	Asst prof.	pravinbagade333@gmail.com	9890063936	
30	Poonam S. Jadhav	Vivekanand College	Asst prof.	psj.eln@gmail.com	9960475592	
31	Nitin G. Dachavan	Shivraj College Gadchiroli	Assist prof.	nitin_belgaum@rediffmail.com	9421289704	
32	Miss. Aishwarya R. Dubale	Dr. Bopuji Salunkhe College, Miraj	Asst. Prof.	aishwaryadubale@gmail.com	9850249420	
33	Miss. Shital M. Chougale	Shri Babasaheb Chougale Arts & Sci. College, Kololi	Asst. Prof	chougaleshital60@gmail.com	9881072609	
34	Miss Najmin I. Mursad	K.W.C Sangli	Asst. Prof	najminmursad@gmail.com	8698252508	
35	Miss Amruta Sanjay Jangade	Balwanant College Wita	Asst. Prof	amrutajangade47@gmail.com	8668351664	
36						





Shri Swami Vivekanand Shikshan Sanstha's
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D. Lit.

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M.A.

Secretary
Prin. Mrs. Shubhangi Gavade
M.Sc., B.Ed.

Principal
Dr. R. R. Kumbhar
M.Sc. M.Phil. Ph.D.

Ref. No. VCK/

Date :

To,
Dr. Ganesh Waghmare
Senior Antenna Engineer,
Intel, Bangalore.

Dear Sir, In response to our invitation as a Resource Person for one day workshop on “Radio Transmission Antennas”, organized by Department of Electronics, Vivekanand College, Kolhapur Autonomous. You have delivered the speech and demonstrated the RF and antenna basics antenna developments Antenna simulation tools to all the faculty members in a systematic manner. We are very much thankful to you for taking efforts in this regards. Being a renowned faculty we expect co-operation in future too.

Thanking You.

(Dr. C. B. Patil)

Workshop Coordinator

Yours faithfully

(Dr. R. R. Kumbhar)

PRINCIPAL
Vivekanand College
Kolhapur



पुढारी पुरवणी
दि. 14/03/2022

रेडिओ ट्रान्समिशन एन्टेनाजवर 'विवेकानंद'मध्ये कार्यशाळा

कोल्हापूर : पुढारी वृत्तसेवा

विवेकानंद महाविद्यालयात इलेक्ट्रॉनिक्स विभागामार्फत व रुसा पुरस्कृत 'रेडिओ ट्रान्समिशन एन्टेनाज' विषयावर एकदिवसीय कार्यशाळा झाली. कार्यशाळेचे उद्घाटन प्राचार्य डॉ. आर. आर. कुंभार यांच्या अध्यक्षतेखाली व प्रमुख पाहुणे राजाराम महाविद्यालय इलेक्ट्रॉनिक्स विभागप्रमुख डॉ. पी. यू. लांडे यांच्या हस्ते झाले. कार्यशाळेचे सत्र मार्गदर्शक डॉ. गणेश वाघमारे, सीनिअर एन्टेना इंजिनिअर, इंटेल, बेंगलोर यांनी सध्याच्या टेक्नॉलॉजीमध्ये वापरल्या जाणाऱ्या एन्टेनाची डिझाईन सॉफ्टवेरच्या सहाय्याने कशी करता येऊ शकते, याबाबत मार्गदर्शन केले. डॉ. सी. बी. पाटील यांनी प्रास्ताविक केले. पाहुण्यांचा परिचय प्रा. एन. पी. मोटे व प्रा. पी. आर. बागडे यांनी करून दिला. डॉ. पूनम जाधव व प्रा. जी. बी. जिरगे यांनी सूत्रसंचालन केले.

