



Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule

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❖ EDUCATIONAL DETAILS

- 2017** : **M.Tech (Electrical) specialization in Power Electronics & Power System** from Sardar Patel College of Engineering, Andheri (W) Mumbai. A Govt. aided autonomous institute affiliated to the University of Mumbai.
- 2013** : **B.Tech (Electrical) from VJTI, Matunga (E) Mumbai.** An autonomous institute affiliated to the University of Mumbai.
- 2010** : **Diploma in Electrical Engineering from** Government Polytechnic, Nanded. The institute is affiliated to the M.S.B.T.E, Mumbai.

❖ PROFESSIONAL EXPERIENCE

- 1. Assistant Professor**, Electrical Engineering Department at Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule , from 01-06-2018 to the till date.
- 2. Ad-hoc faculty at VJTI, Matunga (E) Mumbai** from 17-07-2017 to 31-05-2018.
- 3. Lecturer at VJTI, Matunga (E) Mumbai** from 30-07-2013 to 10-06-2015.

❖ Research Work:

Full time PG research scholar at SPCE, Andheri (W) Mumbai from 10-08-2015 to 31-07-2017.

M.Tech dissertation project work was full time research under the guidance of Prof. Vishal Dake (Asst.Prof of EED, SPCE) and Mr. Abhijit Tillu (Senior Scientific Officer) at BARC Mumbai. A hardware based split core pulse transformer was designed & fabricated at the hardware PG project lab of SPCE Mumbai.

❖ Research Project:

"Design & Fabrication of Split Core Pulse Transformer for Prototype Solid State Pulse Power Modulator" for biomedical applications was introduced to serve the society. On the basis of this research work publications done in IEEE conferences & other journal. The publication details & its citations are also available on Google scholar - https://scholar.google.com/citations?user=9m_nMIAAAAJ



❖ Research Papers Presented / Published:

| Sr. No. | Details of Publication | National/ International | Publisher, Vol, Indexing. | Author (s) / Editor (s) |
|---------|---|---|--|---|
| 1. | "Modeling and analysis of split core pulse transformer for solid state pulse power modulator," | <i>2017 Second International Conference on Electrical, Computer and Communication Technologies (ICECCT), Coimbatore.</i> | IEEE Explorer doi: 10.1109/ICECCT.2017.8118032 | Sandeep Ushkewar, Vikram Shinde & Vishal Dake |
| 2. | "Designing of solid state pulse power modulator by fabrication of pulse transformer," | <i>2017 Innovations in Power & Advanced Computing Technology (i-PACT) VIT,Vellore.</i> | IEEE Explorer doi: 10.1109/IPACT.2017.8244942 | Sandeep Ushkewar, Vikram Shinde & Vishal Dake |
| 3. | "Controlled islanding scheme for power system protection: Guidelines and approach: Case study: Proposed Bhopal islanding scheme," | <i>2017 Third International Conference on Advances in Electrical,Electronics,Information, Communication&BioInforms,Chennai.</i> | IEEE Explorer doi: 10.1109/AEEICB.2017.7972394 | Sandeep Ushkewar, Suraj Chaube & Nikhil Komawar |



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| Sr. No. | Details of Publication | National/ International | Publisher | Author (s) / Editor (s) |
|---------|--|---|--|---|
| 4 | "Mathematical Modelling of STATCOM for Reactive Power Compensation in Power System & approach to the Renewable energy" | International conference on Emerging Trends in Electrical, Communications, and Information Technologies (ICECIT) SRIT, Anantpur (A.P) India. | © Springer <i>Nature LNEE series</i> | Sandeep Ushkewar |
| 5 | "Compensation of Reactive Power in DFIG Based Wind Farm using STATCOM" | <i>International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics.</i> | IEEE Explorer doi: 10.1109/AEEIC B.2018.8480955 | Sandeep Ushkewar Mahesh Bodke |
| 6 | "Optimal Allocation Of Shunt Compensation And Maximum Loadability Assessment On IEEE-14 Bus Test System" | <i>2018 Fourth International Conference on Advances in Electrical, Electronics, Information, Communication and BioInformatics(AEEICB),Chennai</i> | IEEE Explorer doi: 10.1109/AEEIC B.2018.8480974 | Nilesh Ahire, Megha Fernandese Sandeep Ushkewar |
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| Sr. No. | Details of Publication | National/ International | Publisher | Author (s) / Editor (s) |
|---------|---|--|---|---------------------------------------|
| 7 | "DC load flow studies of DC link for power system planning," | International Journal of creative research thoughts (IJCRT) | Volume 6, Issue 3, April 2018 ISSN (online): 2320-2882. | Sandeep Ushkewar |
| 8 | "Validation Of STATCOM Capabilities through Modelling And Simulation On Simulink Platform" | <i>Fourth International Conference on Advances in Electrical, Electronics, Information, Communication and BioInformatics (AEEICB), Chennai</i> | IEEE Explorer doi: 10.1109/AEEI CB.2018.8480 850 | Anant Dhulshette Sandeep Ushkewar |
| 9 | "Implementation of P&O MPPT Method Using ARDUINO Controller for A Standalone Solar PV System" | International Journal of Electronics, Electrical and Computer Systems (IJECS) | Volume 7, Issue 03, March 2018 ISSN (online): 2348-117X. | Nilesh R. Ahire & Sandeep Ushkewar |



❖ Workshops/FDPs Attended

| Sr. No. | Title | Details of Workshops/FDPs | Duration |
|---------|---|---|---|
| 1 | "Mentoring: Attitude and Skill Development" | Two days FDP for newly joined teachers Sponsored by the TEQIP I & organized by Humanities and Management department of VJTI Mumbai. | 26-09-2013 to 27-09-2013 |
| 2 | "Power Electronics for Green Energy" | One week workshop Sponsored by the TEQIP II & organized by the Department of Electrical Engineering, NIT Raipur (C.G) | 08-08-2016 To 12-08-2016 |
| 3 | "Non-Conventional Energy Resources" | NPTEL online course conducted by IIT Madras under Ministry of HRD, Government of India. Considered as 1 and ½ week FDP sanctioned by AICTE. | JULY-OCT. 2018 (12 Weeks online course) |
| 4 | Faculty Development Program on "Product Design" | One week FDP Sponsored by the TEQIP III and organized by DBATU, Lonere and Shree Sant Gadgebaba collage of Engineering, Bhusawal. | 07-12-2018 To 11-12-2018 |
| 5 | "One Day Coordinator's Workshop on eSim, a First Course in the IoT Series" at IIT Bombay. | Conducted by the Teching Learning Centre (ICT) In Association with IIT Bombay Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching MHRD Govt.of India. | 27-07-2019 |
| 6 | "One Day Workshop on Scilab" | Conducted by the Teching Learning Centre (ICT) In Association with IIT Bombay Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching MHRD Govt.of India. | 04-05-2019 |
| 7 | "One Day Workshop on PYTHON" | Conducted by the Teching Learning Centre (ICT) In Association with IIT Bombay Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching MHRD Govt.of India. | 22-06-2019 |



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| Sr. No. | Title | Details of Workshops/FDPs | Duration |
|---------|---|--|------------|
| 8 | “One Day Workshop on Linux” | Conducted by the Teaching Learning Centre (ICT) In Association with IIT Bombay Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching MHRD Govt.of India. | 23-08-2019 |
| 9 | “One Day Workshop on effective research paper writing ” | Organized by SVKM's Institute of Technology, Dhule. | 28-12-2019 |

❖ Guest Lecture Conducted

| Sr. No. | Topic | Place | Date |
|---------|--|--------------------------|------------|
| 1 | Guest lecture invited on the topic "Introduction to MATLAB" Sponsored by the TEQIP II & IET. | SPCE, Andheri (W) Mumbai | 20.08.2016 |



❖ Books Published:-

| Sr. No. | Title | Publisher Details | Year |
|---------|--|--|------|
| 1 | Chapter No.15 - Mathematical Modelling of STATCOM for Reactive Power Compensation in Power System & approach to the Renewable energy (P.N 569) | © Springer Nature Singapore Pte Ltd. 2020 LNEE series https://doi.org/10.1007/978-981-13-8942-9_15 | 2020 |

❖ As a Resource Person in Workshop:-

| Sr. No. | Workshop / Conference | Place | Date |
|---------|---|---------------------------------------|------------|
| 1 | Expert lecture on "Introduction to MATLAB & SCILAB" for DEE students. | Government Polytechnic, Mumbai | 10/01/2020 |
| 2 | Expert trainer of one day Solar Ambassador workshop 2019. | SVKM's Institute of Technology, Dhule | 02/10/2019 |
| 3 | Course coordinator/instructor of one day workshop on eSim for registered teachers training under PMMMMM on Teachers training under MHRD Government. Of India. | SVKM's Institute of Technology, Dhule | 21/09/2019 |
| 4 | One day hands on workshop on "Application Software For Electrical Product Design" | SVKM's Institute of Technology, Dhule | 24/03/2019 |

❖ Special Achievements:

- Honored by the **M.Tech meritorious student award twice** from Sardar Patel College of Engineering, Mumbai on its 55th & 56th Annual Day (March 2017 & March 2018 respectively).
- Awarded merit scholarship in B. Tech Electrical Engineering batch of 2013 at VJTI from the Priyadarshani Academy, Mumbai.



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❖ Workshop/ Conference Organized:

| Sr. No. | Workshop / Conference | Place | Role |
|---------|--|---|-------------------------|
| 1 | Solar Ambassador workshop 2019 | SVKM's Institute of Technology, Dhule | Workshop Associate SPOC |
| 2 | One day workshop of LED fabrication on the occasion of Engineer's day. | Electrical Engg.Dept. SVKM's Institute of Technology, Dhule | Organizing Committee |

❖ Member of Professional Bodies:

| Sr. No. | Name of Institution/ Society | Grade of Membership | Year | Whether Still a member |
|---------|--|---------------------|------|------------------------|
| 1 | ISTE, New Delhi | Life Member | 2019 | Yes |
| | SVKM's IOT, Dhule ISTE Chapter | Joint Secretary | 2020 | |
| 2 | Start-ups, Innovation & Enterprise Cell (SIEC) at SVKM's IOT, Dhule. | Coordinator | 2018 | Yes |

❖ EXTRA CO-CURRICULUM ACHIEVEMENT

Received second prize for elocution competition at Government Polytechnic, Nanded in the year of 2010.

❖ TECHNOLOGY PROFICIENCY

PLATFORMS : Artificial Intelligence & Fuzzy logic
PROGRAMMING LANGUAGES : Basic C
OFFICE TOOLS : Microsoft office word, Power point, Excel, One note etc.

❖ AREA OF INTEREST

Application of power electronics in renewable energy as well as in conventional power system.