

## Curriculum Vitae

**Dr. Anil Nivrati Ghadge**  
**Assistant Professor (Sl. Grade)**  
**Department of Civil Engineering**  
**Sardar Patel college of Engineering,**  
**Andheri (W), Mumbai**  
**Email: a\_ghadge@spce.ac.in**



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### Educational Background (Graduation onwards):

- B.E. (Civil Engineering) from Dr. B.A. Marathwada University Aurangabad, in 1997.
- M.E. (Construction management), Mumbai University, in 2008.
- PhD from IIT Kharagpur, West Bengal (2016).

### Professional experience:

- Worked as **Quality Assurance Engineer** in M/S B.G. Shirke Construction Technology Ltd., Pune (1997-2004).
- Presently working as '**Assistant Professor (Selection Gr.)**' in Civil Engineering Department at Sardar Patel College of Engineering, Andheri, Mumbai (2004 –till today).

### Member of professional bodies:

- Life member of ISTE.
- Life member of IGS-Mumbai chapter
- Member of IET.

### Achievements/Awards received:

- Awarded with second merit ranker certificate in ME Civil for the year 2006-2007 from Sardar Patel college of Engineering.
- Awarded with certificate of appreciation for very good academic performance from Sardar Patel college of Engineering, for years 2006-2008.
- *Received Certificate of Appreciation as an Eminent Speaker for delivered expert talk in eFDP on 'Waste to Bio-energy, 4<sup>th</sup> July, 2020.*

**Funded Research Project:** *Received research grant of Rs. 45.88 Lacs from Science and Engineering Research Board (SERB - A statutory body of the Department of Science and Technology, Government of India) funded research project (File No. EEQ/2021/001115).*

**Successfully completed project and closure report submitted to SERB-DST**

## Sanction Letter from SERB-DST

FILE NO. EEQ/2021/001115  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
5 Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 11 March, 2022

### ORDER

Subject: Financial Sanction of the research project titled **Application of bio-electrochemical system for electrocoagulation and development of Anion exchange membrane using clay minerals** under the guidance of Dr. Anil Nivrati Ghadge, Civil Engineering, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, Bhavan's campus, bhavans college rd, munshi nagar, andheri west, mumbai, Mumbai city, Maharashtra-400058 - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 4589284/-** (Rs. Forty Five Lakh Eighty Nine Thousand Two Hundred and Eighty Four **Only**) with break-up of **Rs. 1778237/- under Capital (Non-recurring) head** and **Rs. 2811047/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 4589284/-** has been approved are given below:

The following budget may be considered for **Bharatiya Vidya Bhavan's Sardar Patel College Of Engineering, Bhavan's Campus, Bhavans College Rd, Munshi Nagar, Andheri West, Mumbai**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Potentiostat (Autolab) -> Temperature controlled Bath sonicator -> Data acquisition system and data storage system -> Online Effluent Quality Analyzer -> Peristaltic pumps (4channel)	1778237
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>1778237</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies, Other Cost) Recurring - III : Scientific Social Responsibility	1383840 975000 35000
2	Recurring - IV : (Overhead Charges)	417207
<b>B'</b>	<b>Total (Recurring)</b>	<b>2811047</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>4589284</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

3. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)**  
**This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)**

4. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

5. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

6. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

9. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

12. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

13. The project File no. EEQ/2021/001115 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

14. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.


15. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

  
(Dr. Thangaradjou T)  
Scientist F  
msls@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	<b>Dr. Anil Nivrati Ghadge</b> <b>Civil Engineering</b> <b>Bharatiya Vidya Bhavan's Sardar Patel College of Engineering , Bhavan's campus, bhavans college rd, munshi nagar, andheri west, mumbai, Mumbai city, Maharashtra-400058</b> <b>Email: a_ghadge@spce.ac.in</b> <b>Mobile: 919137982889</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	<b>Principal,</b> <b>Bharatiya Vidya Bhavan's Sardar Patel College Of Engineering, Bhavan's Campus, Bhavans College Rd, Munshi Nagar, Andheri West, Mumbai</b>  (Receipt of Grant may be intimated by name to the undersigned)

  
(Dr. Thangaradjou T)  
Scientist F  
msls@serb.gov.in

**Research area:** Wastewater treatment using Microbial fuel cell, Construction Management, Concrete Technology



### Major findings:

Demonstrated successful application of separator electrode prepared using conductive carbon ink on ceramic material to make single chambered MFC. Developed single chambered MFC (26 litre capacity) and dual chambered (45 L capacity), largest reported so far in literature. These MFCs demonstrated higher power output with lower internal resistance, at reduced capital and operating cost, simplicity in fabrication and longevity gives new direction to wastewater treatment along with energy recovery. Developed low cost ceramic separators using cation exchangers such as Montmorillonite/ kaolinite to enhance MFCs performance.

### Publication Summary

Publication summary: (Source-Google Scholar): 30.07.2025

[https://scholar.google.com/citations?user=WQ\\_IOqgAAAAJ&hl=en](https://scholar.google.com/citations?user=WQ_IOqgAAAAJ&hl=en)

No. of citations =877, H-index- 12, i-10 Index-13

### Details of PhD Mentorship.

Sr. No	Name Scholar	Title of Research	Remark
1	Arpit S. Vyas	Investigation on Properties of Subgrade and Dense Bituminous Macadam Mixed with Plastic Waste	Ongoing
2	Mr. Vinayak S. Bachal	Sustainable Wastewater Treatment Using Microbial Fuel Cell Along with Energy Recovery	Ongoing
3	Mr. Umesh Vishnu Jadhav	Utility Infrastructure Management System using Geographic Information System (GIS) and Building Information Modelling (BIM)”	Ongoing
4	Mr. Shivam Bapusaheb Magar	Developing Rector configuration for Low Cost Scalable Microbial Fuel Cell for Wastewater Treatment And Energy Recovery	Ongoing

## Research Profile



**Dr. A. N. Ghadge**

Sardar Patel College of Engineering, Mumbai  
Verified email at spce.ac.in

Construction management Energy and Environment

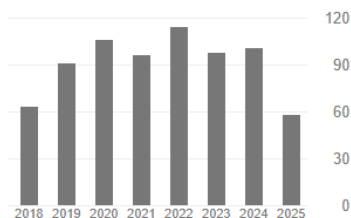
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TITLE	CITED BY	YEAR
Development of low cost ceramic separator using mineral cation exchanger to enhance performance of microbial fuel cells AN Ghadge, MM Ghangrekar Electrochimica Acta 166, 320-328	172	2015
Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells DA Jadhav, AN Ghadge, D Mondal, MM Ghangrekar Bioresource technology 154, 330-335	122	2014
Performance of low cost scalable air–cathode microbial fuel cell made from clayware separator using multiple electrodes AN Ghadge, MM Ghangrekar Bioresource technology 182, 373-377	114	2015
Wastewater treatment in pilot-scale microbial fuel cell using multielectrode assembly with ceramic separator suitable for field applications AN Ghadge, DA Jadhav, MM Ghangrekar Environmental Progress & Sustainable Energy 35 (6), 1809-1817	79	2016

Cited by [VIEW ALL](#)

	All	Since 2020
Citations	877	573
h-index	12	11
i10-index	13	11



Public access [VIEW ALL](#)

8 articles 3 articles

### Year wise citations= (Total-877)

Year	citations	Year	citations
2014-15	03	2019-20	80
2015-16	26	2020-21	106
2016-17	47	2021-22	95
2017-18	68	2022-23	114
2018-19	61	2023-24	98
2024-25	101	2025-26	58

**Patent:** Indian patent entitled “Earthen material based cathode separator assembly for scalable bio-electrochemical system” (805/KOL/2013 dated 05/07/2013) awarded from Government of India (*Patent No. 349375 date 25.10.2020*).

# Patent certificate

**FORM 5**  
THE PATENTS ACT, 1970  
(39 of 1970)  
&  
THE PATENTS RULES, 2003  
**DECLARATION AS TO INVENTORSHIP**  
[See Section 10(6) and rule 13(6)]

1. We ; **INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR**, An Indian Statutory Body, Sponsored Research & Industrial consultancy, Indian Institute of Technology, Kharagpur-721302, West Bengal, India hereby declare that the true and first inventor of the invention disclosed in the complete specification filed in pursuance of our application numbered **805/KOL/2013** dated **05.07.2013** are

**2. INVENTOR(S)**

1. (a) Name : **CHATTERJEE, Pritha;**  
(b) Nationality : An Indian National;  
(c) Address : M.Tech 2<sup>nd</sup> year, Department of Civil Engineering, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
2. (a) Name : **GHADGE, Anil;**  
(b) Nationality : An Indian National;  
(c) Address : Research Scholar, Department of Civil Engineering, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
3. (a) Name : **GHANGREKAR, Makarand M.;**  
(b) Nationality : An Indian National;  
(c) Address : Professor, Department of Civil Engineering, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
4. (a) Name : **PRADHAN, Debabrata;**  
(b) Nationality : An Indian National;  
(c) Address : Assistant Professor, Department of Material Science, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
5. (a) Name : **PANDIT, Soumya;**  
(b) Nationality : An Indian National;  
(c) Address : Senior Research fellow, Department of Biotechnology, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
6. (a) Name : **KHILARI, Santimoy;**  
(b) Nationality : An Indian National;  
(c) Address : Junior Research fellow, Department of Material Science, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.
7. (a) Name : **DAS, Debabrata;**  
(b) Nationality : An Indian National;  
(c) Address : Professor, Department of Biotechnology, Indian Institute of Technology, Kharagpur-721302, West Bengal, India.

Dated this the 3<sup>rd</sup> day of July, 2014

Signature

Name of the signatory: \_\_\_\_\_



Anjan Sen  
Of Anjan Sen and Associates  
(Applicants Agent)



**भारत सरकार**  
**GOVERNMENT OF INDIA**

एकस्व कार्यालय / THE PATENT OFFICE  
बौद्धिक सम्पदा भवन / I.P.O. BUILDING  
सी.पी. 2, सेक्टर V / CP-2, Sector V,  
साल्ट लेक सिटी / Salt Lake City  
कोलकाता / Kolkata- 700091  
दूरभाष / Tel. No.: (091)(033)223679101  
फैक्स / Fax : 033- 23671988  
ई मेल / Email : [kolkata-patent@nic.in](mailto:kolkata-patent@nic.in)  
वेबसाइट / Website: <http://ipindia.nic.in>

सं. \ No. 805/KOL/2013

दिनांक \ Dated the 15/10/2020

सेवा में, \ To :

Address of Service:- ANJAN SEN C/O ANJAN SEN & ASSOCIATES, 17, CHAKRABERIA ROAD SOUTH, KOLKATA - 700 025, WEST BENGAL, INDIA.

Email Id:- [info@ipindiaaasa.com](mailto:info@ipindiaaasa.com)

विषय :- पेटेंट आवेदन संख्या 805/KOL/2013 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना  
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 805/KOL/2013

महोदय/महोदया,  
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ----- को हुई सुनवाई] के उपरान्त एतद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 15/10/2020 को पेटेंट रजिस्टर में कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on ----- ] a patent is hereby granted and recorded in the Register of Patents on the 15/10/2020. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	: 349375
आवेदक का नाम \ Name Of Applicant	: INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
पेटेंट दिनांक \ Date of Patent	: 05/07/2013
पूर्विका तिथि \ Priority Date	: 05/07/2013
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	: 01/07/2017
शीर्षक \ Title	: EARTHEN MATERIAL BASED CATHODE SEPARATOR ASSEMBLY FOR BIOELECTROCHEMICAL SYSTEM
दावों की संख्या \ Number of claims	: 1-19, original claims

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।

The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।

The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act, 1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Soumen Ghosh

(नियंत्रक पेटेंट)

Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट [www.ipindia.gov.in](http://www.ipindia.gov.in) पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।

For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks [www.ipindia.gov.in](http://www.ipindia.gov.in)

2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।

No hard copy of Patent Certificate shall be issued separately by the office.

## **Book Chapters:**

(1) Ghangrekar M.M., **Ghadge A.N.**, 2013. Scaling-up of Microbial Fuel Cell Using Clay Membrane Separator and Non-catalyzed Electrode Materials, in: Singh, R.R., Pandey, A., Larroche, C. (Eds.), *Advances in industrial biotechnology*, I K International Publishing House, New Delhi, India, pp. 45-57.

(2) Chatterjee, P., Pandit, S., **Ghadge, A. N.**, & Ghangrekar, M. M. (2013). Performance Comparison of Air-Breathing Cathode and Aqueous Cathode Earthen Pot Microbial Fuel Cell, *Recent Advances in Bioenergy Research*, 356.



## Journal Publications

(From PhD work)

1. Vyas, A., **Ghadge, A.**, & Nagrale, P. (2025). Evaluation Of Strength Characteristics Of Flexible Pavement Layers Modified With Plastic Waste. *International Journal of Environmental Sciences*, 11(5s), 1158-1164. <https://doi.org/10.64252/gata6n32>
2. Ghadge, A. N., Mahajan, S., Bachal, V., & Jadhav, D. (2024, March). Investigating the effect of electrode area to volume ratio on the performance of low-cost single chamber microbial fuel cells. In *AIP Conference Proceedings* (Vol. 2985, No. 1, p. 030004). AIP Publishing LLC. <https://doi.org/10.1063/5.0204930>
3. Barapatre, H. R., Ghadge, A. N., & Chavan, S. (2024, March). Investigating and analyzing the causes of accidents—A case study of multistorey residential building. In *AIP Conference Proceedings* (Vol. 2985, No. 1, p. 030009). AIP Publishing LLC. <https://doi.org/10.1063/5.0204933>
4. Ghadge, A. N., Keith S., & Ghangrekar, M. M. (2016). Maximum anode chamber volume and minimum anode area for supporting electrogenesis in microbial fuel cells treating wastewater, *Journal of Renewable and Sustainable Energy* 8 (4) 44032. <https://doi.org/10.1063/1.4961587>
5. Ghadge, A. N., Jadhav, D. A., & Ghangrekar, M. M. (2016). Wastewater treatment in pilot-scale microbial fuel cell using multielectrode assembly with ceramic separator suitable for field applications. *Environmental Progress & Sustainable Energy* (DOI: 10.1002/ep.12403). <https://doi.org/10.1002/ep.12403>
6. Ghadge, A. N., & Ghangrekar, M. M. (2015). Performance of low cost scalable air–cathode microbial fuel cell made from clayware separator using multiple electrodes. *Bioresource Technology*, 182, 373-377. (Impact Factor- 5.172) <https://doi.org/10.1016/j.biortech.2015>
7. Ghadge, A. N., Jadhav, D. A., Pradhan, H., & Ghangrekar, M. M. (2015). Enhancing waste activated sludge digestion and power production using hypochlorite as catholyte in clayware microbial fuel cell. *Bioresource Technology*, 182, 225-231. (Impact Factor- 5.172)
8. Ghadge, A. N., & Ghangrekar, M. M. (2015). Development of low cost ceramic separator using mineral cation exchanger to enhance performance of microbial fuel cells. *Electrochimica Acta*, 166, 320-328. (Impact Factor- 5.172).
9. Jadhav, D. A., Ghadge, A. N., & Ghangrekar, M. M. (2015). Enhancing the power generation in microbial fuel cells with effective utilization of goethite recovered from mining mud as anodic catalyst. *Bioresource technology*, 191, 110-116. (Impact Factor- 5.172)
10. Ghadge, A. N., Sreemannarayana, M., Duteanu, N., & Ghangrekar, M. M. (2014). Influence of ceramic separator's characteristics on microbial fuel cell performance. *Journal of Electrochemical Science and Engineering*, 4(4), 315-326.
11. Jadhav, D. A., Ghadge, A. N., Mondal, D., & Ghangrekar, M. M. (2014). Comparison of oxygen and hypochlorite as cathodic electron acceptor in microbial fuel cells. *Bioresource Technology*, 154, 330-335. (Impact Factor- 5.172)

12. Jadhav, D. A., Ghadge, A. N., & Ghangrekar, M. M. (2014). Simultaneous organic matter removal and disinfection of wastewater with enhanced power generation in microbial fuel cell. *Bioresource technology*, 163, 328-334. (Impact Factor- 5.172)
13. Ghadge, A.N., Ghangrekar, M. M., Pandit, S., & Das, D. (2014). Performance of air cathode earthen pot microbial fuel cell for simultaneous wastewater treatment with bioelectricity generation. *International Journal of Environmental Technology and Management*, 17(2), 143-153.
14. Ghadge, A. N., Pradhan, H., Prasad, S., & Ghangrekar, M. M. (2013, May). Enhancing Activity of Electrogenic Bacteria in Microbial Fuel Cell by 2-Bromoethanesulphonate Dosing. *International Journal of Engineering Research and Technology*, 2(5), 1086-1091.

## Conference publications

1. **Ghadge, A. N.**, Jadhav D. A., Ghangrekar, M. M. (2015). Application of ceramic separator enriched with exchangeable cations for single chamber microbial fuel cells. *International conference on Ceramic and Advanced materials for Energy and Environment (CAMEE2015)*, organized by Indian Ceramic Society in association with Indian Institute of Science (IISc) at Bengaluru, Karnataka, India, December 15-17, 2015.
2. **Ghadge, A. N.**, Jadhav D. A., Pradhan, Harapriya, Ghangrekar, M. M. (2014). Sewage treatment plant sludge digestion and electricity generation in earthenware microbial fuel cell. *International conference on Environment and Energy (ICEE-2014)* Organized by JNTU, Hyderabad, India, December 15-17, 2014.
3. **Ghadge, A. N.**, Ghangrekar, M.M. (2014). Performance of Low Cost Scalable Air- cathode Microbial Fuel Cell Made from Ceramic Cylinder. Accepted for poster Presentation in *the Leading Edge Technology 2014 Conference, Organized by IWA, Abu Dhabi, UAE*, 26-30 May 2014.
4. **Ghadge, A. N.**, Ghangrekar, M.M. (2013). Performance of Scalable Microbial Fuel Cell Using Multi-Anode/Cathode System with Ceramic Separator for Real-World Applications. *10th National Conference on Solid State Ionics (NCSSI-2013)*, IIT Kharagpur, India, 22-24 Dec. 2013.
5. Ghangrekar, M.M., **Ghadge, A.N** (2013). Optimizing anodic chamber volume and power density for scaling up microbial fuel cell. *3<sup>rd</sup> National Conference on Recent Advances in Bio-Energy Research at SSS-NIRE, Kapurthala*, 22-24 November 2013.
6. **Ghadge, A. N.**, Rajesh P.P., Pritha Chatterjee, & Ghangrekar, M. M. (2013). Scaling up a Microbial Fuel Cell Having an Air-Breathing Cathode and Multiple Electrodes. *International Congress on Materials and Renewable Energy (MRE 2013)*, Athens, Greece, 1-3 July 2013.
7. **Ghadge, A. N.**, Ghangrekar, M.M. (2013). Effect of non-catalyzed electrode materials on low cost scalable microbial fuel cell performance. *International Symposium on New Horizons in Bioenergy Research, IIT Kharagpur, India*, January 14 – 16, 2013.
8. Ghangrekar M.M., **Ghadge, A. N.** (2012). Scaling up of microbial fuel cell using clay membrane separator and non-catalyzed electrode materials. *International Conference on Industrial Biotechnology (ICIB-2012)*, organized by Punjabi university, Patiala, India, November 21-23, 2012.
9. **Ghadge, A. N.**, Pandit, Soumya., Das, Debabrata., Ghangrekar, M.M.(2013). Performance of air cathode earthen pot MFC for simultaneous wastewater treatment with bioelectricity

generation. *1st international workshop on waste to energy organized by NEERI, Mumbai, India*, August 24-25, 2012.

10. Jadhav D.A., Pandit S., **Ghadge A. N.**, Das D., Ghangrekar M. M. (2013). Performance comparison between mixed and pure cultures in air cathode earthen pot microbial fuel cells. *10th National Conference on Solid State Ionics (NCSSI-2013)*, IIT Kharagpur, India, 22-24 Dec. 2013.
11. Chatterjee, P., Pandit, S., **Ghadge, A. N.**, Ghangrekar, M.M. (2013). Effect of binder loading on performance of air-cathode earthen pot microbial fuel cell. International Symposium on New Horizons in Bioenergy Research, IIT Kharagpur, India, January 14 – 16, 2013.
12. **Ghadge, A. N.**, Prasad, Sriranjani , Pradhan, Harapriya, Ghangrekar, M.M.(2012). Enhancing activity of electrogenic bacteria in microbial fuel cell by BES dosing. International Conference on Advances in Biological Hydrogen Production and Applications (ICABHPA-2012) Organized by JNTU, Hyderabad, India, December 14-15, 2012.
13. Chatterjee, P., Pandit, S., **Ghadge, A. N.**, Ghangrekar, M.M. (2012). Performance comparison of air-breathing cathode and aqueous cathode earthen pot microbial fuel cell, National Conference on Recent Advances in Bio-energy Research, Organized by Sardar Swaran Singh National Institute of Research, Kapurthala, Punjab, India, December 7-8, 2012.

## Journal Publications

### (From M.Tech Dissertation work)

1. Lari, Mohd. Sharique and Bhatt, Vandana and Ghadge, Anil Nivrati, Analytic Study of Construction Delays (February 22, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: <https://ssrn.com/abstract=3369450> or <http://dx.doi.org/10.2139/ssrn.3369450>
2. Development & Management (SIDM) 2019. Available at SSRN: <https://ssrn.com/abstract=3369450> or <http://dx.doi.org/10.2139/ssrn.3369450>
3. Kamble, Tejas and Bhatt, Vandana and Ghadge, Anil Nivrati, Developing Tools to Streamline the Process of Contract Administration (February 22, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: <https://ssrn.com/abstract=3369450> or <http://dx.doi.org/10.2139/ssrn.3369450>
4. Patil, Ankita and Bhatt, Vandana and Ghadge, Anil Nivrati, Developing Forensic Investigation Standards to Effectively Deal with Structural Failures (February 22, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: <https://ssrn.com/abstract=3372764>.
5. Khan, Ahmed and Ghadge, Anil Nivrati, Building Information Modelling (BIM) Based Sustainability Analysis for a Construction Project (February 23, 2019). Proceedings of Sustainable Infrastructure Development & Management (SIDM) 2019. Available at SSRN: <https://ssrn.com/abstract=3372764> or <http://dx.doi.org/10.2139/ssrn.3372764>
6. Khan, Ahmed and Ghadeg, Anil Nivrati and Nagrale, Prashant, Evaluating Benefits of Building Information Modelling (BIM) Using a 5D Model for Construction Project (November 24, 2018). Available at SSRN: <https://ssrn.com/abstract=3371434> or <http://dx.doi.org/10.2139/ssrn.3371434>

7. Anam Sayed, Sanjukta Bhowmik and A.N.Ghadge (2018) “ Development of Hybrid Microbial Fuel Cell for Wastewater Treatment System and Electrocoagulation” International Journal of Engineering Technology Science and Research” (IJETSR), ISSN 2394 – 3386, Volume 5, Issue 4, April 2018.
8. Ashish Mutha & Dr. Anil Ghadge (2018) “Evaluating the factors affecting Quality of Residential projects in Construction Industry”, International Journal of Engineering Technology Science and Research IJETSR, ISSN 2394 – 3386 Volume 5, Issue 4 April 2018.
9. Krutika Bugade & Anil Ghadge (2018) “Investigating the factors influencing disputes in construction industry”, International Journal of Engineering Technology Science and Research IJETSR, ISSN 2394 – 3386 Volume 5, Issue 4 April 2018.
10. Poonam Raikar and A.N.Ghadge (2016). Analyzing the critical factors influencing the time overrun and cost overrun in construction project, International Journal of Engineering Research (IJER), 5(1), 21-25.
11. Shekhar Jadhav and A.N.Ghadge, (2016). Application of Building Information modeling in construction projects – a critical review, International Journal of Engineering Research (IJER), 5(1), 26-31.
12. Sourabh Borole and A.N.Ghadge, (2016). Comparative study of conventional and modern waterproofing techniques, International Journal of Engineering Research (IJER), 5(1), 32-36.
13. A.N.Ghadge, .P.V.Parameswaran, and .P.H.Sawant (2008). Performance Evaluation of Materials Management Process in Construction Project, Journal of Construction Management NICMAR-Pune

## **Publications from ME construction Managements**

### **National Journals:**

1. Saurabh Mahajan and A.N.Ghadge (2021). “Evaluating Factor Influencing Quality Management System in Residential Building” International Journal Of Innovative Research In Technology, Volume 7, Issue 11, April 2021.
2. Khan, A., and Ghadge, A.N., (2019). ‘Building Information Modelling (BIM) Based Sustainability Analysis for a Construction Project’, *Proceedings of Sustainable Infrastructure Development & Management (SIDM)*. : 8 Jul 2019.
3. Patil, A., Bhatt, V., & Ghadge, A. N. (2019). *Developing Forensic Investigation Standards to Effectively Deal with Structural Failures. Proceedings of Sustainable Infrastructure Development & Management (SIDM)*. : 8 Jul 2019.
4. Minde, R. R., & Ghadge, A. N. *Analysing the Factors Influencing Quality throughout the Lifecycle of A Road Project. Proceedings-Project Management Practices* , Chief Editor, 320.
5. Anam Sayed, Sanjukta Bhowmik and A.N.Ghadge (2018) “ Development of Hybrid Microbial Fuel Cell for Wastewater Treatment System and Electrocoagulation”



*International Journal of Engineering Technology Science and Research” (IJETSR), ISSN 2394 – 3386, Volume 5, Issue 4, April 2018.*

6. **Ashish Mutha & Dr. Anil Ghadge (2018) “Evaluating the factors affecting Quality of Residential projects in Construction Industry”, *International Journal of Engineering Technology Science and Research IJETSR*, ISSN 2394 – 3386 Volume 5, Issue 4 April 2018.**
7. **Krutika Bugade & Anil Ghadge (2018) “Investigating the factors influencing disputes in construction industry”, *International Journal of Engineering Technology Science and Research IJETSR*, ISSN 2394 – 3386 Volume 5, Issue 4 April 2018.**
8. Poonam Raikar and **A.N.Ghadge (2016)**. Analyzing the critical factors influencing the time overrun and cost overrun in construction project, *International Journal of Engineering Research (IJER)*, 5(1), 21-25.
9. Shekhar Jadhav and **A.N.Ghadge**, (2016). Application of Building Information modeling in construction projects – a critical review, *International Journal of Engineering Research (IJER)*, 5(1), 26-31.
10. Sourabh Borole and **A.N.Ghadge**, (2016). Comparative study of conventional and modern waterproofing techniques, *International Journal of Engineering Research (IJER)*, 5(1), 32-36.
11. **A.N.Ghadge**, .P.V.Parameswaran, and .P.H.Sawant (2008). Performance Evaluation of Materials Management Process in Construction Project, Journal of Construction Management NICMAR-Pune.

### National/International conferences:

1. Devesh Karkhanis and Anil Ghadge (2025), Improving Green Building Level of Existing Residential Building by Proposing the Modifications, in International Conference on, “Modern Advances in Civil Engineering and Technologies (ICMACET) 2025” 27-28 March 2025, Datta Meghe College of Engineering, Airoli , Navi Mumbai 400 708.
2. Shivam Magar and Anil Ghadge (2025), A Scalable low-cost microbial fuel cell using Ferro-cement to enhance the power generation and wastewater generation. , in International Conference on, “*Modern Advances in Civil Engineering and Technologies (ICMACET) 2025*” 27-28 March 2025, Datta Meghe College of Engineering, Airoli , Navi Mumbai 400 708.
3. Dr. Anil Ghadge, Mr. Vinayak Bachal,(2024), Investigating the effect of electrode surface area to volume ratio on the electrochemical behaviour of single chambered microbial fuel cell made from low cost scrapped stainless steel anode, INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SUSTAINABILITY (ICES2023) at VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE, MATUNGA MUMBAI 16th - 17th March 2023.
4. Zuber Khan **and Ghadge, A.N.**, (2020). ‘Financial Feasibility Analysis of Residential Redevelopment Projects in Mumbai, National Conference on Advance in Construction Management-2020 organized by Department of civil engineering (COEP), Pune, 6-7 March-2020
5. Sachin Kharmate **and Ghadge, A.N.**, (2020). ‘Critical evaluation on Earn Value Management (EVM) technique for building construction project, National Conference on Advance in Construction Management-2020 organized by Department of civil engineering (COEP), Pune, 6-7 March-2020.
6. Tushar Pal and **Ghadge, A.N.**, (2020). ‘Investigating the Effects of Inventory Control Technique in Construction Project, 4th International Conference on Advances in Civil and Structural Engineering (ICACSE 2020), 28-30 May-2020.
7. Khan, A., and **Ghadge, A.N.**, (2019). ‘Building Information Modelling (BIM) Based Sustainability Analysis for a Construction Project’, Sustainable Infrastructure Development & Management (SIDM-2019). VNIT Nagpur campus, 22-23 February, Nagpur (M.S.), India.
8. Khan, A., **Ghadge A.N.**, & Nagrale P.P. (2018). ‘Evaluating Benefits of Building Information Modelling (BIM) using a 5D Model for Construction project’, 3rd International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP-2018). NICMAR Pune campus, 23-25 November, Pune (M.S.), India.
9. Krutika Bugade and **Anil Ghadge** (2018), Investigating the factors influencing disputes in construction industry presented at Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034

10. Anam Sayed and **Dr Anil Ghadge** (2018), Development of Hybrid Microbial Fuel Cell for Wastewater Treatment System and Electrocoagulation presented at Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034.
11. Ashish Mutha and **Dr Anil Ghadge** (2018), “Evaluating the factors affecting Quality of Residential projects in Construction Industry” presented at Proceedings of the International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018) held at- The Institution of Engineers, India, Maharashtra state Centre, Khadye Marg, Mumbai-400034.
12. **A.N.Ghadge** and Ashutosh Mittal (2017). **Investigating the Factors Influencing Delay in Infrastructure Projects**, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (**Accepted**).
13. **A.N.Ghadge** and Harshal Sonare (2017). **Assessment of Risk and Hazards of construction activities in Residential Projects**, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (**Accepted**).
14. **A.N.Ghadge** and Saurabh Jain (2017). **Factors Affecting Labour Productivity in High Rise Building Construction Projects**, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (**Accepted**).
15. **A.N.Ghadge** and Rishi Pathak (2017). **Evaluating the Effectiveness of Material Management System in Residential Projects**, International Conference on Advances in Civil and Environmental Engineering (*ICACEE-17*), Organized by Late G. N. Sapkal College of Engineering, Nashik, 10<sup>th</sup>- 11<sup>th</sup> February 2017 (**Accepted**).
16. **A.N.Ghadge** and Rajesh G. Vagal, (2016). **Analyzing the Factors Influencing Deterioration in Residential Buildings-A Case Study in Mumbai**, International conference on Advances in Concrete Technology, Materials and Construction Practices (*CTMC- 2016*), organized by Goa Engineering College, Farmagudi-Goa in collaboration with Government Polytechnic, Bicholim Goa and University of Bath, UK, 22<sup>nd</sup> -24<sup>th</sup> June 2016.
17. Arpit B. Chaudhari and **A.N.Ghadge**, (2016). **Planning and Designing of Economical Water Distribution System**, *International Conference on Advances in Construction Technology and Management*, organized by Visvesvaraya National Institute of Technology (VNIT) Nagpur, Maharashtra, India, 19-20 th February 2016.
18. Poonam Raikar and **A.N.Ghadge**, (2016). Analyzing the critical factors influencing the time overrun and cost overrun in construction project, 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.

19. Shekhar Jadhav and **A.N.Ghadge**, (2016). Application of Building Information modeling in construction projects – a critical review, 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.
20. Sourabh Borole and **A.N.Ghadge**, (2016). Comparative study of conventional and modern waterproofing techniques 2<sup>nd</sup> National Conference on Innovations in Civil Engineering (NCICE-2016), organized by Government college of Engineering Karad, Maharashtra, India, 08-09 January, 2016.
21. Amey Baviskar and **A.N.Ghadge**, (2015). Risk Identification and Analysis in the Construction Project, *National Conference on “Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
22. Ankur Bhoite and **A.N.Ghadge**, (2015). Critical success factors for implementation of Public Private Partnership in Real Estate project, *National Conference on “Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
23. Arpit B. Chaudhari, Prashant P. Nagrale, and **A.N.Ghadge**, (2015). Planning and Designing of Economical Water Distribution Network for R/Northward Mumbai City: A Case Study, *National Conference on “Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
24. Namdev R. Sutar and **A.N.Ghadge**, (2015). Performance Evaluation of Earned Value Management in the Construction Industry, *National Conference on “Role of Engineers in Nation Building (NCRENB-2015)*, organized by VIVA Institute of Technology, Shirgaon, Virar (E), Thane, 5<sup>th</sup> -6<sup>th</sup> March-2015.
25. **Ghadge A.N.**, and Sawant P.H. (2007),” Quality Management System In Construction” National conference on “Emerging Technology and Developments in Civil Engineering.”(ETDCE-07), Amravati, 22-23 March, 2007.
26. **Ghadge A.N.**, and Sawant P.H. (2008),” Quality Control In Material Management” International Conference on “Innovations in Building Materials, Structural Designs and Construction Practices “(IBMSDCP-2008), Erode Tamil Nadu, 15-17 May 2008.
27. **Ghadge A.N.**, and Sawant P.H., (2008),” Design of storm Water Drainage system” National Conference on "Sustainable Water Resources Development and Management, SWRDAM-2008", Aurangabad., 13-14 June, 2008.
28. **Ghadge A.N.**, and Sawant P.H., (2008) “Role of WTO towards Environmental Protection " in the International Conference on Green Growth to be held in December, 15th - 18th , 2008 , IBS, Hyderabad.
29. **Ghadge A.N.**, and Sawant P.H., (2008) “Use of Inventory control technique in civil Engineering Project- A case Study" in the International Conference on Emerging Trends in Civil Engineering, , Loni, Ahmednagar, Maharashtra 20<sup>th</sup> – 22<sup>nd</sup> December, 2008.



### Number of Guest lecturers delivered in STTP.

Sr. No.	Topic of lecture / Course	Organized by	Period
1	One Week Faculty Development Programme (FDP) On Innovative Technologies for Sustainable Environmental Sanitation	Veermata Jijabai Technological Institute (VJTI), Mumbai	(22nd July to 27th July 2024)
2	e-Faculty Development Program (FDP) cum Workshop on “WASTE TO BIOENERGY	Department of Life Sciences, School of Basic Sciences and Research, Sharda University, Uttar Pradesh and Department of Agricultural Engineering, Maharashtra Institute of Technology Aurangabad.	June 28 <sup>th</sup> to 4 <sup>th</sup> July, 2020
3	One week Faculty Development Program on Innovative Technologies for Sustainable Water Resources Management (Under TEQIP-III)	Veermata Jijabai Technological Institute (VJTI) , Mumbai	(June 10 <sup>th</sup> - 15 <sup>th</sup> , 2019)
4	Five Days Workshop on (23rd to 27th September 2019), Highway Geometric Design and Road Safety Awareness Under the Twinning Activity with Mentor Institute: Sardar Patel College of Engineering, Mumbai	Organized by:  Mentee Institute: Rewa Engineering College, Rewa Department of Civil Engineering, REVA, M.P.	September 24-26, 2019
5	Short Term Training Program on Treatment of Waste: Issues, Challenges and Problem Solving -TWICPS- 2017 (Sponsored by TEQIP-II)	College of Engineering Pune (COEP),	(March 27 <sup>th</sup> -31 <sup>st</sup> , 2017)
6	AICTE SPONSORED One Week QIP Program On GEOSPATIAL TECHNOLOGY IN CIVIL ENGINEERING	Veermata Jijabai Technological Institute Matunga, Mumbai	(March 23 <sup>rd</sup> – 27 <sup>th</sup> , 2017)
7	<i>Application of Nanomaterials in Microbial Fuel Cells</i> “Short Term Training Program on Nanoscience and Nanotechnology:	Sardar Patel College of Engineering, Andheri, Mumbai	(January 2 <sup>nd</sup> -7 <sup>th</sup> , 2017)

	(Fundamentals, Synthesis and Applications”		
8	Fuel Cell and Microbial Fuel Cells “Short Term Training Program of Fundamentals of Energy Management and Applications, (FEMA -2016)”	Sardar Vallabhbhai Patel National Institute of Technology, Surat.	(Oct 10-14, 2016)
9	Lecture on Constriction Management and Quality control for Maharashtra Police Housing corporation for project Managers and consulting Engineers, worli,Mumbai.	Maharashtra Police Housing corporation	24 <sup>th</sup> April 2011
10	4 Day’s Training Workshop Refresher course for AE(C) / JE (C) level Engineers,	PRASAR BHARTI (Broadcasting Corporation of India) At Mumbai	05/01/2010 to 08/01/2010

### Short Term course attended

Sr. No.	Title of Course	Organization	Date
1	EMEQ-Group Monitoring Workshop-IIT Madras	Indian Institute of Technology Madras	from 19-21 September 2024
2.	AICTE's Training and Learning (ATAL) Academy sponsored Faculty Development Program (FDP) on SEMICONDUCTORS IN DESIGN AND DEVELOPMENT OF MICRO-ELECTRO MECHANICAL SYSTEMS	at SARDAR PATEL COLLEGE OF ENGINEERING	08/01/2024 to 13/01/2024.
3	AICTE's Training and Learning (ATAL) Academy sponsored Faculty Development Program (FDP) on "3D Printing and Design"	Bharatiya Vidya Bhavan's Sardar Patel College of Engineering Bhavan's Campus, Andheri (W), Mumbai, 400058	20th September to 24th September 2021
4	TEQIP III Sponsored One Week FDP  Efficacy of Digital Pedagogy for Effective Online Teaching Learning	Jointly Organized by Bharatiya Vidya Bhavan's Sardar Patel College of Engineering Bhavan's Campus, Andheri (W), Mumbai, 400058 and Rewa Engineering College University Road, Rewa, MP, 486 002	(8 <sup>th</sup> to 15 <sup>th</sup> October 2020)
5	e-Faculty Development Program (FDP) cum Workshop on "WASTE TO BIOENERGY"	Department of Life Sciences, School of Basic Sciences and Research, Sharda University, Uttar Pradesh and Department of Agricultural Engineering, Maharashtra Institute of Technology Aurangabad held from	June 28 <sup>th</sup> to 4 <sup>th</sup> July, 2020
6	GIAN credit Course on "Design and Construction of Sustainable Concrete Pavements"	Civil Engineering Department, IIT Madras	December 9-13, 2019
7	One week "Faculty Development Program under Twinning" <b>Under TEQIP-III.</b>	SPCE	29 <sup>th</sup> October to 2 <sup>nd</sup> November, 2018.
8	Three days Training cum Workshop on "Building Information Modeling (BIM) Software-Revit and Nevisworks <b>Under TEQIP-III</b>	Civil Engg Dept., SPCE	18/12/2017 to 20/12/2017

9	Training cum Workshop on “ <b>Project Management Software’s-M.S. Project and Prima Vera</b> ” Under <b>TEQIP-III.</b>	Civil Engg Dept., SPCE	10/1/2018 to 14/01/2018
10	Environment Management with visit to ETP/STP	Rashtriya Chemicals and Fertilizers Limited	Oct 2016
11	One Week Certified Course on Newton Software	Civil Engg Dept., SPCE	13 <sup>th</sup> - 16 <sup>th</sup> , June 2016
12	one week short term training program (STTP) on Nanoscience and Nanotechnology: Fundamentals, Synthesis and Applications	Department of Mechanical Engineering, SPCE	02nd January 2017 to 07th January 2017
13	AICTE SPONSORED SHORT TERM COURSE on MATERIALS ENGINEERING AND INDUSTRIAL APPLICATIONS: HYBRID NANOCOMPOSITES FOR PHOTONICS, ENERGY AND ELECTRONIC DEVICES	Materials Science Centre, Indian institute of technology, Kharagpur-721 302.	Nov.11-22,2013
14	AICTE SPONSORED SHORT TERM COURSE on Materials for Advanced applications	Materials Science Centre, Indian institute of technology, Kharagpur-721 302.	September 2-13,2013
15	Environment Management with visit to ETP/STP	Rashtriya Chemicals and Fertilizers Limited	26/09/2014
16	Attended ISTE sponsored two weeks Short Term Training Programme on Engineering Optimization	organized by Government College of Engineering, Aurangabad	from 28 th June 2010 to 9 th July 2010,
17	Two days training program on” Open Source Geographic information Systems” which was held on a	P S G College of Technology, Coimbatore.	29 th and 30 th August 2009
18	Two days workshop on “ High Impact Teaching Skills” conducted by	Wipro in Mission 10X	24 th and 25 th November 2008.
19	Two Week ISTE approved STTP program on construction Management towards project planning and Administration at f	SPCE Andheri	2 <sup>nd</sup> Jan2007 to 13 <sup>th</sup> Jan 2007.
20	One day workshop on Waterproofing, Concrete Durability & Repair Practices held	DR. FIXIT INSTITUTE OF STRUCTURAL PROTECTION AND REHABILITATION, MUMBAI	19 <sup>th</sup> Dec. 2006.
21	Two days training course on ‘Blasting Technology ‘	Conducted by IGS, Mumbai	19 <sup>th</sup> to 20 <sup>th</sup> August 2006.



		Chapter in association with ED-ON Education Center , Semcon Consultant ,Mumbai and SPCE ,	
22	ISTE 4Week sponsored STTP course on” Enabling Technologies and Technology driven practices for accentuating value chain management”	Mechanical Engineering department, SPCE, Andheri	9.5.2005 to 3.6.2005
23	Two week short term course on “ Teaching Competencies for Engineering College Teachers”	National Institute of Technical Teachers Training and Research, Bhopal	06/12/2004 to 17/12/2004, at SPCE, Mumbai

### Short Term course / Workshop Conducted

Sr. No.	Title of Course/workshop	Duration	Date
1	Science and Engineering Research Board (SERB), Sponsored Two Day Workshop for Faculty on Research Facility “Application of Bio-electrochemical system for Electrocoagulation and Development of Anion Exchange Membrane Using Clay Minerals” EEQ/2021/001115	2days Civil Engg Dept., SPCE	1 <sup>st</sup> and 2 <sup>nd</sup> March 2024
2	Project Management Software's MS Project And Primavera & BIM Training cum Workshop	5 days Civil Engg Dept., SPCE	(7th to 9th April and 14th to 15th April 2023)
3	Four Days Training cum Workshop On “Project Management Software’s-M.S. Project and Primavera	Civil Engg Dept., SPCE	12 <sup>th</sup> to 15 <sup>th</sup> May, 2022)
4	Three Days Training cum Workshop On “Project Management Software’s-M.S. Project and Primavera (Under TEQIP-III)	Civil Engg Dept., SPCE <b>3 days</b>	07 <sup>th</sup> to 09 <sup>th</sup> March, 2020
5	Three days Training cum Workshop on “ Building Information Modeling (BIM) Software-Revit and Nevisworks Under TEQIP-III	Civil Engg Dept., SPCE <b>3 days</b>	18/12/2017 to 20/12/2017
6	Training cum Workshop on “Project Management Software’s-M.S. Project and Prima Vera” Under TEQIP-III.	Civil Engg Dept., SPCE 5 Days	10/1/2018 to 14/01/2018
7	Training cum Workshop on Quantity Survey and estimation using Autoscan and Autosteel, Under TEQIP-II	Civil Engg Dept., SPCE 3-day	16 <sup>th</sup> to 18 <sup>th</sup> February 2017
8	Certified Course on Newton Software Under TEQIP-II	Civil Engg Dept., SPCE <b>One week</b>	13 <sup>th</sup> - 16 <sup>th</sup> , June 2016
9	Two Week ISTE approved STTP program on construction Management towards project planning and Administration	SPCE Andheri	2 <sup>nd</sup> Jan2007 to 13 <sup>th</sup> Jan 2007.

