

Dr.Sumedh Yamaji Mhaske
A.M. ASCE (USA), MASCE(India), MIGC(Mumbai)

Associate Professor,
Civil and Environmental Engineering
Department (CEED); VJTI
Incharge, Geospatial Laboratory
Former Incharge, Transportation Engineering
Laboratory;
Former Associate Dean (Infrastructure
Planning/ Maintenance) [2014 – 2017] and
Former Head of Dept.(CEED) [2012 – 2014]
Former Head of Dept (CEED) [2018 - 2020]



Education:

B.E. (Civil), [V.J.T.I.] , University of Bombay, India
(May 1995)

M.E. (Civil with specialisation In Construction
Management) , [V.J.T.I.], University of Mumbai,
India (July 2001)

Ph.D. (Civil), Indian Institute of Technology Bombay
[IIT Bombay], Mumbai, India (Sept. 2011)

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Active Research Area:

- Spatial Technology: Geographic Information System (GIS) and its application in Civil and Environmental Engineering such as for site layouts, construction waste management, Construction Management, Disaster management etc.
- Space Technology: Global Positioning System (GPS) and its application in Civil Engineering such as land mapping, Contour mapping etc.
- Precise levelling for machine foundations up to micron level accuracy.
- Advanced Geotechnical Earthquake Engineering: Soil Liquefaction, Reclaimed land development, Liquefaction susceptibility mapping with GIS and GPS etc.
- Integrated approach of GIS, GPS and GPR (Ground Penetration Radar) for underground Utilities mapping
- Integrated approach of GIS and GPS for study of soil and rock properties in Geotechnical Engineering.
- Advanced Construction Techniques in Civil Engineering

Membership:

1. Associate Member of American society of Civil Engineers USA (A.M.ASCE 1043265995 and 1043265996)
2. Life member of American society of Civil Engineers- India Section (Life Membership No: ASCE-IS-1136)
3. Life Member of Indian Geotechnical Society – Mumbai Chapter (Life Membership No: M-1020)
4. Life Member of VJTI Alumni Association (Life Membership No: M02200101)
5. Student Membership of American society of Civil Engineers USA (Student Membership No:1006314)

Industrial Experience:

Worked as a Project Site Engineer for **the Hydro-power project 2 X 1.35 MW for M/S Tata Electric Cos; Bhivpuri, Karjat (August 1995 – Jan 1997)**

Construction of Diversion weir, Power house, Ring girders, Erection and installations of Turbines on turbine-generator foundations, Earthen dam, staff quarters etc

Excellence in Teaching:

An appreciation letter (No .Dir / Evaluation / 571 /10) from V.J.T.I. Director's Office for Excellence in Teaching for Course "Geomatics – I "with Score 90/100 to the S.Y.B.Tech (Civil) Class for term December 2009.

Publications:

a) In Refereed International Journals

1. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2010);** "GIS-based soil liquefaction susceptibility map of Mumbai city during earthquake", *Journal of Applied Geophysics*, Volume 70, issue 3, March 2010 , page 216 -225(ISSN: 0926-9851, IF: 1.333/2009) Elsevier, U. K.(Print Media Coverage in National News Paper 'Hindustan Times' on August 9, 2010)
2. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2011);** "Geospatial contour mapping of shear wave velocity for Mumbai city", *Natural Hazards*, (ISSN: 0921-030X, IF: 1.398/2010) Springer, Netherlands, Vol. 59, No. 1, pp. 317-327. DOI: 10.1007/s11069-011-9758-z
3. Sansare D. A. and Mhaske S. Y., (2020), "Natural Hazard assessment and Mapping Using Remote Sensing and QGIS Tools for Mumbai City, India". **Natural Hazards, Springer, Scopus**, Vol.100, pp 1117–1136, January (2020) ISSN: 1573-0840.
4. Sansare D. A. and Mhaske S. Y., (2019), "Risk analysis and mapping of natural disaster using QGIS tools for Mumbai City". **Disaster Advances, Scopus Index**, Vol. 12 (10) pp 14-25.October (2019). ISSN: 0974262X.
5. Sansare D. A. and Mhaske S. Y., (2019), "Storm water Management of Mumbai city by using Pervious Concrete on GIS based platform". **International Journal of Recent Technology and Engineering (IJRTE), Scopus Index**, Vol. 8, no.2, pp 4400-4406, July 2019. ISSN: 2277-3878.
6. Sansare D. A. and Mhaske S. Y., (2019), "Natural Disaster Analysis and Mapping using Remote Sensing and QGIS Tools for F-North ward, Mumbai City, India". **Disaster Advances, Scopus Index**, Vol. 12 (1) pp 40-50. January (2019). ISSN: 0974262X.
7. Sansare D. A. and Mhaske S. Y., (2018), "Analysis of Land use Land cover change and its Impact on Peak Discharge of Storm Water using GIS and Remote Sensing: A Case Study of Mumbai City, India". *International Journal of Civil Engineering and Technology (IJCIET), Scopus Index*, Vol. 9 (11), 2018, pp 1753–1762. ISSN: 0976-6316.
8. Vinod Vanvari and Dr. Sumedh Mhaske (2021): "Self-Redevelopment: Futuristic Method to Redevelop Buildings in Mumbai", *NICMAR Journal of Construction Management*, Vol XXXVI. No. III July-Sept, 2021. ISSN.0970-3675 NICMAR, Pune. pp 16-21.

9. Khamkar D. J., **Mhaske S. Y. (2018)**, “Investigation of the mass movement in Varandha region, Western ghat of Maharashtra using geospatial technique”, *International Journal of Civil Engineering and Technology (IJCIET)*, **Scopus Index**, Volume 9, Issue 7, July 2018, pp. 2011–2027.
10. Mahesh B Sonawane and **Sumedh Y Mhaske (2018)**, “Predicting daylight illuminance in urban city using statistical regression techniques” *Journal of Engineering Science and Technology*, (**Scopus**), ISSN: 1823-4690, Vol. 13, No.7, pp. 2181-2194
11. Vinod Vanvari and Dr. Sumedh Mhaske (**2018**), “Redevelopment of Buildings in Mumbai: Risks and Challenges”, **International Journal of Engineering & Technology (UAE)**, ISSN: **2227-524X**, **SCOPUS Indexed Journal**, Volume 7(3.9) (2018) 91-94.
12. Navale V B and Mhaske S Y (**2019**), “Land use/Land cover Changes in Sangamner City by Using Remote Sensing and GIS”, **International Journal of Recent Technology and Engineering (IJRTE)**, **Scopus Index** ISSN: 2277-3878, Volume-X, Issue-X, DOI: 10.35940/ijrte.B3386.07821 9.
13. Mahesh B Sonawane and Sumedh Y Mhaske (**2016**), “Daylighting Estimation and Analysis in Residential Apartment Building: GIS based approach”, **proceedings of the IOP Conf. Series: Earth and Environmental Science** 37 (2016) 012024, IGRSM 2016 (**Scopus**), doi:10.1088/1755-1315/37/1/012024, **Kuala Lumpur, Malaysia**.

b) In Geotechnical Special Publications of ASCE, USA

14. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2011)**; “GIS-GPS based map of soil index properties for Mumbai”, In *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, *Geotechnical Special Publication No. 211*, ASCE, Edited by J. Han and D. E. Alzamora, Reston, VA, USA, pp. 2366-2375.

c) International Journals (Online)

15. **Gawade Prathmesh and Mhaske Sumedh (2013)**; "GIS-based Roadway Construction Planning", **International Journal of Scientific Engineering and Research (IJSER)**, Volume 1, issue 3, November 2013, page 59 -61(ISSN(online) 2347 – 3878)
16. **Saini Vijay Kumar and Mhaske Sumedh (2013)**; "BIM based Project Scheduling and Progress Monitoring in AEC Industry ", **International Journal of Scientific Engineering and Research (IJSER)**, Volume 1, issue 3, September 2013, page 94 - 96(ISSN(online) 2347 – 3878)
17. **Saini Vijay Kumar and Sumedh Mhaske (2013)**, “ BIM an emerging Technology in AEC industry for time optimizations”, *International Journal of Structural and Civil Engineering Research (IJSCE)* ISSN 2319 – 6009 Vol. 2, pg 195 - 200
18. **Virle Rajesh and Mhaske Sumedh (2013)**; "Application of earned Value and earned Schedule to Construction Project ", **International Journal of Scientific Engineering and Research (IJSER)**, Volume 1, issue 3, September 2013, page 97 -101 (ISSN(online) 2347 – 3878)
19. **Virle Rajesh and Mhaske Sumedh (2013)**; "Monitoring of Construction Projects using EVM and ESM Tools", **International Journal of Structural and Civil engineering research (IJSCER)**, Volume 2, issue 4, November 2013, page 128 -135 (ISSN(online) 2319 - 6009)

20. **Mazhar Sayed and Mhaske Sumedh (2013)**; “GIS based Road safety audit”, **International Journal of Scientific Engineering and Research (IJSER)**, Volume 1, issue 3, October 2013, page 21 -23 (ISSN(online) 2347 – 3878)
21. **Darshan Sansare and Dr.Sumedh Mhaske (2014)**; “ Infrastructure development of Aarey Colony Mumbai on GIS Platform – A case study”, **International Journal of Innovative research on Advanced engineering (IJIRAE) [Impact Factor : 0.585]**, Volume 1, Issue 4, May 2014, page 95 -100, ISSN : 2349 – 2163(<http://ijirae.com>)
22. **Milind Pathak and Dr.Sumedh Mhaske (2014)**; “Tower Verticality for Tall Building using DGPS”, **International Journal of Innovative research on Advanced engineering (IJIRAE) [Impact Factor : 0.585]**, Volume 1, Issue 4, May 2014, page 64 -68, ISSN : 2349 – 2163(<http://ijirae.com>)
23. **Thakare Prashant and Dr. Sumedh Mhaske (2014)**, “*GIS based material management and supplier selection in Thane city – A case study*”, **International Journal of Innovative Research in Advanced Engineering (IJIRAE)**, [Impact Factor : 0.585], Vol. 1, pp. 48-53, Issue 5 (June 2014), ISSN: 2349-2163.
24. **Yuvraj Patil and Dr.Sumedh Mhaske (2014)**, “*GIS Enabled Tool For Effective Land Records Management Case Study: Wada Village*” **International Journal on Recent and Innovation Trends in Computing and Communication** ISSN: 2321-8169 **Scientific Journal Impact Factor: 5.837** Volume: 2 Issue: 6, pg. 1627 – 1631
25. **Udas Yadnesh and Dr. Sumedh Mhaske (2015)**, “*Geospatial Mapping of Shear wave Velocity of soil of Navi Mumbai by using MASW in GIS platform*”, **International Journal of Modern Trends in Engineering and Research (IJMTER)**, Impact Factor : 1.711, Volume 2, Issue 7, [July-2015] Special Issue of ICRTET’2015, e-ISSN No.:2349-9745, Pg. 845-850.
26. **Rohit Bansode and Dr.Sumedh Mhaske (2015)**, “*Flexible Pavement: Superpave Mix Design*”, **International Journal of Modern Trends in Engineering and Research (IJMTER)**, Impact Factor : 1.711, Volume 2, Issue 7, [July-2015] Special Issue of ICRTET’2015, e-ISSN No.:2349-9745, Pg. 902-906
27. **Hemant Pandit and Dr.Sumedh Mhaske (2015)**, “*Traffic Management by using GIS*”, **International Journal of Modern Trends in Engineering and Research (IJMTER)**, Impact Factor : 1.711, Volume 2, Issue 7, [July-2015] Special Issue of ICRTET’2015, e-ISSN No.:2349-9745, Pg. 833- 838
28. **Mahesh Sonawane and Dr.Sumedh Mhaske (2015)**, “*Evaluation of Building Energy performance*”, **International Journal of Modern Trends in Engineering and Research (IJMTER)**, Impact Factor : 1.711, Volume 2, Issue 7, [July-2015] Special Issue of ICRTET’2015, e-ISSN No.:2349-9745, Pg. 683-687.
29. **Ninad D. Sawant and Dr. Sumedh Mhaske (2016)**, “*Use of GIS in Construction Site Layout Planning*”, **IJSRD - International Journal for Scientific Research & Development| Impact Factor : 4.396**, Vol. 4, Issue 05, 2016, Pages:1046-1049 | ISSN (online): 2321-0613

30. **Pooja S. Naringrekar and Dr. Sumedh Mhaske (2016)**, “*Study on New Supplementary Cementitious Material in Construction of Green Building*”, **IJSRD - International Journal for Scientific Research & Development**| **Impact Factor:4.396**,Vol. 4, Issue 05, 2016, Pages: 1196-1200 | ISSN (online): 2321-0613
31. **Dhanashri M. Bedagkar and Dr. Sumedh Mhaske (2016)**, “*Application of Advanced Techniques and GIS in Railway Safety Management*” **IJSRD - International Journal for Scientific Research & Development**| **Impact Factor:4.396**,Vol. 4, Issue 05, 2016, Pages: 1172-1175,| ISSN (online): 2321-0613
32. **Rohit P Khamkar and Dr. Sumedh Mhaske (2016)**, “ *Impact of Stress on Performance of Construction Employees in Mumbai Region*” **IJSRD - International Journal for Scientific Research & Development**| **Impact Factor:4.396**,Vol. 4, Issue 05, 2016, Pages: 1061-1064,| ISSN (online): 2321-0613
33. **Akash Padole and Dr. Sumedh Mhaske (2017)**, “*Infrared Thermography: A Tool for Defect Identification*”, **International Journal of Scientific Engineering and Research (IJSER)** ISSN (Online): 2347-3878 (UGC Approved, Sr. No. 48096) Index Copernicus Value (2015): 62.86 | **Impact Factor (2015): 3.791** Paper ID: IJSER171635, Pages: 128 -132
34. **Parag Darade and Dr. Sumedh Mhaske (2017)**, “*NDT for Pavement Exploration using GPR*” **International Journal of Scientific Engineering and Research (IJSER)** ISSN (Online): 2347-3878 (UGC Approved, Sr. No. 48096) Index Copernicus Value (2015): 62.86 | **Impact Factor (2015): 3.791** Paper ID: IJSER171620, Pages: 44-47
35. **Nitesh Pawar and Dr. Sumedh Mhaske (2017)**, “*Measuring Shear Wave Velocity Using MASW Method to Reduce Cost and Time required in Construction Projects*”, **International Journal of Scientific Engineering and Research (IJSER)** ISSN (Online): 2347-3878 (UGC Approved, Sr. No. 48096) Index Copernicus Value (2015): 62.86 | **Impact Factor (2015): 3.791** Paper ID: IJSER171627, Pages: 55-60
36. **Nikita T. Bhagat and Dr. Sumedh Mhaske (2017)**, “*Study on the application of GIS in preconstruction planning of water distribution network*” **International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE)** Volume 2, Issue 4, Pages: 55-60, April 2017 ISSN (Online): 2456-1290, **Impact Factor (2014): 3.8**
37. **Varsha Ahuja and Dr.Sumedh Mhaske (2021)**, “*Redevelopment of Staggered Intersection at Seven Hills Square,Aurangabad*”, **International Research Journal of Engineering and Technology (IRJET)** e-ISSN: 2395-0056 Volume: 08 Issue: 07 Page no 3449 -3995 | July 2021 www.irjet.net p-ISSN: 2395-0072 | **Impact Factor value: 7.529** | ISO 9001:2008 Certified Journal
38. **Mustafa Sakerwala and Dr.Sumedh Mhaske (2021)**, “*Utilization Of Coir Fibres In Stone Matrix Asphalt For National Highways*”, **International Research Journal of Engineering and Technology (IRJET)** e-ISSN: 2395-0056 Volume: 08 Issue: 07 Page no 1574 - 1577| July 2021 www.irjet.net p-ISSN: 2395-0072 | **Impact Factor value: 7.529** | ISO 9001:2008 Certified Journal
39. **Khan Waqar Ahmed Imtiyaz and Dr.Sumedh Mhaske (2021)**, “*Change Management and the Concept of Common Data Environment in Indian Construction Industry*”, **International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT)**, ISSN: 2454-132X, **Impact Factor: 6.078** Volume 7, Issue 4 - V7I4-1339, Page no 456 - 461

[1] In the International Conference:

1. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2008)**; “Application of GIS-GPS for studies on liquefaction induced soil movements during earthquake: An overview”, *First World Congress on Disaster Management (WCDM-2008)*, October 21 - 24, 2008, Hyderabad, India, Vol.1, pp. 52-63 in CD.
2. **Sumedh Yamaji Mhaske (2008)**; “Application of GIS-GPS for Land records mapping “ *Pravara International Conference on Emerging Trends in Engineering (PICETE-2008)*, December 20 – 23, 2008, Loni , India , in CD
3. **Anuj Kishor Budhkar [Student, T.Y.B.Tech (Civil)] and Sumedh Yamaji Mhaske (2010)** “Application of Spatial technology for development of new broad gauge railway line in Kashmir, India” *International Conference Advances in Materials and Techniques in Civil Engineering (ICAMAT- 2010) , January 7th - 9th , 2010, Coimbatore , India*
4. **Shankar Bagale , Vijay Kolagotla , S.Y. Mhaske (2010)** “Geographic Information System an effective tool for construction project management “ **International Conference on design and construction of Urban transport structure , April 23rd – 25th , 2010 , Hyderabad , India , Vol.2 , pp. 553 – 567**
5. **Shirish Thorat and Sumedh Mhaske (2010)** “Study of innovative testing facilities on bituminous and concrete road construction ” **Proc. of international conference DRT-2010, October 8-10,2010,NIT,Rourkela, Orissa, Macmillan Publication, pp 360 – 366.**
6. **Sachin Amrutkar and Sumedh Mhaske (2010)** “Application of Geographical Information System for pavement management system ” **Proc. of international conference DRT-2010, October 8-10,2010,NIT,Rourkela, Orissa, Macmillan Publication, pp 686–691.**
7. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2010)**; “Use of GIS-GPS for disaster management of liquefied zones during earthquake”, *Proc. of Bangladesh Geotechnical Conference 2010 (BGC-2010): Natural Hazards and Countermeasures in Geotechnical Engineering*, November 4 – 5, 2010, Dhaka, Bangladesh, ISBN No. 978-984-33-2180-0, pp. 340-345.
8. **Sumedh Yamaji Mhaske and Deepankar Choudhury (2011)**; “GIS-GPS based map of soil index properties for Mumbai”, *Geo-Frontiers 2011, Annual Conference of Geo-Institute (GI), ASCE*, March 13 – 16, 2011, Dallas, Texas, USA (Final Paper ID 1342 accepted, in press for publication as GSP of ASCE).
9. **Jivan Pachpande, Prathmesh Argade, Poonam Mahajan, Prathamesh Chaudhari, Shivraj Patil and Dr. Sumedh Mhaske (2012)** ; “ Integrated approach of GIS-GPS for feasibility study of NaviMumbai International Airport”, *SPICON 2012 - CIVIL, International Conference on Recent Advances in Enineering, Technology and Management, May 31st – June 02nd , 2012, SPCE, Andheri, Mumbai -58, India.*
10. **Chetan Bendale and Dr. Sumedh Mhaske (2012)**; “Construction of Geotube as erosion control technique for the Mumbai sea shore”, **International Journal of Advances in Management , Technology & Engineering Sciences (IJAMTES), (ISSN: 2249 – 7455), CCAC, Vol- III, Issue 2(1) , Nov. 2012, pp. 52-56.**

11. **Umesh Matmari and Dr. Sumedh Mhaske (2012);** “ Preliminary study of construction of Offshore structures and seafloor modification methods – state of Art”, **International Journal of Advances in Management , Technology & Engineering Sciences (IJAMTES)**, (ISSN: 2249 – 7455), CCAC, Vol- III, Issue 2(1) , Nov. 2012, pp. 27-33
12. **Sandesh Nirmale and Dr. Sumedh Mhaske (2012);** “ Development of traffic data management system using GIS for part of the Mumbai region”, **International Journal of Advances in Management , Technology & Engineering Sciences (IJAMTES)**, (ISSN: 2249 – 7455), CCAC, Vol- III, Issue 2(1) , Nov. 2012, pp. 34 – 37
13. **Yogesh Kadam and Dr. Sumedh Mhaske (2012);** “GIS based green Infrastruture for F-North ward of Mumbai City”, **International Journal of Advances in Management , Technology & Engineering Sciences (IJAMTES)**, (ISSN: 2249 – 7455), CCAC, Vol- III, Issue 2(1) , Nov. 2012, pp. 130 -134
14. **Vinod Vanvari and Dr. Sumedh Mhaske (2013);** “ Use of Pervious Concrete in Strom Water Drain Construction in Redevelopment Building Projects”, **R.N. Raikar International Conference and Dr.Suru Shah Symposiun on Advaces in Science & Technology of Concrete**, December 20 to 21st 2013, organized by India Chapter of American Concrete Institute, Mumbai, Volume II, Page 333 – 336.(ISBN 81-86876-14-6)
15. **Vinod Vanvari and Dr.Sumedh Mhaske (2014),** “*Use of Pervious concrete Panels for storm Water drain Construction in buildings under Redevelopment for Affordability and Sustainability*”, **International Seminar REDECON at Bangalore**, Page nos.
16. **Mahesh Sonawane and Dr. Sumedh Mhaske (2014);** “ Use of Building Energy simulation tools in assessing building performance”, **International Conference on Contemporary issues in Engineering and Technology**, March 19th to 21st 2014, Merchant Enginnering Colloge sardar Patel Institute of Technology Basna, Mehsana (Gujrat) India
17. **Udas Yadnesh and Dr. Sumedh Mhaske (2015),** “*Geospatial Mapping of Shear wave Velocity of soil of Navi Mumbai by using MASW in GIS platform*”, Proceeding of 4th **International Conference on Recent Trends in Engineering & Technology**, Published by McGraw Hill Education, India, ISBN(13):978-93-392-2290-1, ISBN(10): 93-392-2290-3, Pg. 187-191.
18. **Hemant Pandit and Dr. Sumedh Mhaske (2015),** “Traffic Management by using GIS”.4th **International conference on Recent Trends in Engineering and Technology**, Page no 177-181, Published by McGraw Hill Education India, ISBN (13):978-93-392-2290-1, ISBN(10) 93-392-2290-3.
19. **Rohit Bansode and Dr.Sumedh Mhaske (2015),** “*Flexible Pavement : Superpave Mix Design*”, Proceeding of 4th **International Conference on Recent Trends in Engineering & Technology**, Published by McGraw Hill Education, India, ISBN(13):978-93-392-2290-1, ISBN(10): 93-392-2290-3, Pg. 280-284.
20. **Swapnil Narendra Bihade and Dr. Sumedh Mhaske (2016);** “*Construction Technique for Domes using Pneumatic Formwork*”, Proceeding of **International Conference of Advances in Concrete Technology, Materials and Construction Practices (CTMC 2016)**, 22-24 June, 2016, Government Polytechnic Bicholim in association with **Goa Engineering College, Farmagudi and University of Bath, UK**. Page No: 391-397.

21. **Mahesh B Sonawane and Sumedh Y Mhaske (2016)**, “*Daylighting Estimation and Analysis in Residential Apartment Building: GIS based approach*”, **IOP Conf. Series: Earth and Environmental Science** (2016) 012024, IGRSM 2016, (**Scopus Index**), doi:10.1088/1755-1315/37/1/012024, **Kuala Lumpur, Malaysia**.
22. **Vinod Vanvari and Dr. Sumedh Mhaske (2017)**, “*Key Determinants of the Process of Building Redevelopment Projects in Mumbai City*”, **Proceeding of NICMAR 2nd International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP 2017)** at NICMAR Pune, India, Nov10-11, 2017
23. Sansare D. A. and Mhaske S. Y., (**2020**), “Application of GIS and Remote Sensing for Land Cover Mapping: A Case Study of F-North Ward, Mumbai.” **Applied Computer Vision and Image Processing. Advances in Intelligent Systems and Computing, Scopus Index**, Vol.1155, pp 91-99. July 2020. doi-org443.webvpn.fjmu.edu.cn/10.1007/978-981-15-4029-5_9. ISBN: 978-981-15-4029-5.
24. Sansare D. A. and Mhaske S. Y., (**2019**), “Land use change Mapping and its impact on Storm water runoff using Remote Sensing and GIS: A Case Study of Mumbai, India”. **5th ICOIRS (International Conferences of Indonesian Society for Remote Sensing) 2019**. (The 5th ICOIRS) and MAPIN Congress 2019, Indonesia, September 17 – 20, 2019. IOP Conf. Series: Earth and Environmental Science., **Scopus Index**, Vol. 500, pp 1- 12, doi:10.1088/1755-1315/500/1/012082 (2020).
25. Sansare D. A. and Mhaske S. Y., (**2018**), "3D Vulnerability Mapping for Disaster Assessment using Remote Sensing and QGIS Tools for F-North ward Mumbai City India" (INCA185) **38th INCA International Congress 2018** – organized by **ISRO-In proceeding**. ISSN: 0927-8392
26. Navale V B and Mhaske S Y (**2019**), “GIS-Based Study of Groundwater Monitoring of Villages, Karhe Region, Maharashtra, India. Accepted for Paper Presentation the 5th **International conference of Indonesian society for remote sensing and Mapin congress**, 17th to 20th September 2019, Bandung, **Indonesia**. DOI:10.1088/1755-1315/500/1/012089
27. Vinod Vanvari and Dr. Sumedh Mhaske (**2018**): “Key Determinants of the Process of Building Redevelopment Projects in Mumbai City”, **International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP 2017) at NICMAR Pune**, Nov10-11, 2017. Paper presented. Abstract published in conference document. Full Paper is published in book titled “Contemporary Issues in CRIPSector in India” First Impression: 2018 ISBN No: 978-93-5321-873-7 pp 205-229.
28. Vinod Vanvari and Dr. Sumedh Mhaske (**2020**): “Addressing Risks Building Redevelopment Projects in Mumbai”, **International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP 2019) at NICMAR Pune**, Dec13-14, 2019. Paper presented. Abstract published in conference document. Full Paper is published in book titled “Financial and Legal Issues in CRIPSector in India” First Impression: 2020 ISBN No: 978-93-5406-143-1 pp 183-205.
29. Vinod Vanvari and Dr. Sumedh Mhaske (**2020**): “Self-Redevelopment: Futuristic Method to Redevelop Buildings in Mumbai”, **International Conference on Construction, Real Estate, Infrastructure and Project Management (ICCRIP 2019) at NICMAR Pune**, Dec13-14, 2019. Paper presented. Abstract published in conference document. Full Paper is published in book titled “Practices in Construction Management” First Impression: 2020 pp 103-108.

30. Shirazi Ali., Dr. Mhaske Sumedh (2020), “Resource allocation of underground railway station in Mumbai by using Microsoft project”, Fourth International Conference on “Advances in Civil and Structural Engineering (ICACSE 2020), TEQIP-III, 28th to 30th May 2020, civil Engineering Department, Govt College of Engg, Karad and Rajkiya Engg College, Azamgarh
31. Manjrekar Nikhil, Dr. Mhaske Sumedh (2020), “Spatial Multi-Criteria Evaluation for Selection of Haul Route and Material Sourcing Site for Mumbai Coastal Road Project”, Fourth International Conference on “Advances in Civil and Structural Engineering (ICACSE 2020), TEQIP-III, 28th to 30th May 2020, civil Engineering Department, Govt College of Engg, Karad and Rajkiya Engg College, Azamgarh
32. Kulkarni Pushkar, Dr. Mhaske Sumedh (2020), “GIS based Sustainable Material Procurement in the Construction Industry with the use of Analytical Hierarchy Process”, Fourth International Conference on “Advances in Civil and Structural Engineering (ICACSE 2020), TEQIP-III, 28th to 30th May 2020, civil Engineering Department, Govt College of Engg, Karad and Rajkiya Engg College, Azamgarh
33. Disha Deulkar and Dr.Sumedh Mhaske (2021), “Land Use Zoning and Hazard Analysis Around Pune Airport Using GIS” at 2nd International Conference on Engineering and Advanced Technology – 2021(IEEE) held on 16th and 17th July 2021 at LORDS insititue of Engineering and Technology with (OSIET) Chennai India
34. Angha Patil and Dr.Sumedh Mhaske (2021), “Bus Rapid Transit System In Navi Mumbai Using Q-GIS Software” at 2nd International Conference on Engineering and Advanced Technology – 2021(IEEE) held on 16th and 17th July 2021 at LORDS insititue of Engineering and Technology with (OSIET) Chennai India

[b] In Refereed National Journals

35. Deepankar Choudhury and Sumedh Yamaji Mhaske (2010); "Geospatial technology for study of response system – phase of earthquake disaster management of Mumbai city", *Disaster Advances*, (ISSN: 0974-262X, IF: 0.138/2009) India, Vol. 3, No. 4, pp. 23-29.
36. Deepankar Choudhury, V. S. Phanikanth, Sumedh Y. Mhaske, Reshma R. Phule and Kaustav Chatterjee (2014); "Seismic liquefaction hazard and site response for design of piles in Mumbai city", *Indian Geotechnical Journal*, (ISSN: 0971-9555), Springer, India (in press for publication, available online since March 2, 2014 with doi: 10.1007/s40098-014-0108-4)

[2] In the National Conference:

37. Durgesh Jadhav and Sumedh Mhaske (2008); “Integration of GPS and GIS in Construction Waste Management” *Proceedings of the Third CUSAT National Conference on Recent Advances in Civil Engineering (RACE-2008)*, December 4 – 6 , 2008, Cochin University of Science and Technology , Kochi ,India, Paper No 10, pp 103 – 108
38. Abhishek Dwivedi and Sumedh Mhaske (2008); “An Integrated approach of GIS in Disaster Management” *Proceedings of the Third CUSAT National Conference on Recent Advances in Civil Engineering (RACE-2008)*, December 4 – 6 , 2008, Cochin University of Science and Technology , Kochi, India, Paper No 45, pp 301 – 307

39. **Laxmikant Mukhedkar and Sumedh Mhaske (2009)**; “Construction Techniques in earthquakes resistant structure: an overview” *Proceedings of the national conference on Recent Trends in Engineering & Technology (ZENITH 2009)*, October 30 – 31, 2009, Agnel Polytechnic, Vashi, Paper No CV10, pp-67 (abstract), full paper in proceeding CD.
40. **Sumedh Y. Mhaske and Deepankar Choudhury (2010)**; "Application of GIS-GPS for mapping soil index properties", *Proceedings of Indian Geotechnical Conference (IGC-2009)*, February 18-20, 2010, Guntur, A.P., India, Vol. I, pp. 35-39.
41. **Sachin Mhetrajkar and Sumedh Mhaske (2010)**; “Application of GPS to measure deformation of Bridge structure” *Proceedings of the national conference on Civil Engineering for Infrastructure Developments (CID 2010)*, August 30 – 31, 2010, D.Y.Patil College of Engineering, Akurdi, Pune Theme 5, Paper No 01, pp-218 - 224
42. **Laxmikant Mukhedkar and Sumedh Mhaske (2010)**; “Geographical Information System based Flood Management of Mumbai City” *Proceedings of the national conference on Civil Engineering for Infrastructure Developments (CID 2010)*, August 30 – 31, 2010, D.Y.Patil College of Engineering, Akurdi, Pune Theme 3, Paper No 03, pp-137 - 141
43. **Sandip Chaudhari and Sumedh Mhaske (2010)**; “Modern techniques for flexible and rigid pavement distress mapping” *Proceedings of the fourth CUSAT National Conference on Recent Advances in Civil Engineering (RACE-2010)*, September 16 – 18 , 2010, Cochin University of Science and Technology , Kochi ,India, Paper No 34, pp 237 – 243
44. **Bhushan Gupte and Sumedh Mhaske (2010)**; “An Integrated approach of GIS and GPR for underground utilities mapping” *Proceedings of the fourth CUSAT National Conference on Recent Advances in Civil Engineering (RACE-2010)*, September 16 – 18 , 2010, Cochin University of Science and Technology , Kochi ,India, Paper No 42, pp 285 – 289
45. **Sunil Kudchikar and Dr.Sumedh Mhaske (2012)**; “GIS based project scheduling and progress monitoring of bridge projects in Construction Industry”, National Conference on Recent advancements in Engineering (NCRAE12). June 22 – 23, 2012, Sanjeevan Engineering and Technology Institute, Panhala, Kolhapur – 416201, India.
46. **Jivan Panchpande, Prathmesh Argade, Poonam Mahajan, Prathmesh Chaudhari and Dr. Sumedh Mhaske (2012)**; “ GIS –GPS based feasibility study of Navi Mumbai International Airport”, *National Conference on Environmental Surveillance for Natural Resource Management (ESNRM – 2012), January 9 - 10, 2012* at School of Environmental & Earth Sciences, North Maharashtra University, Jalgaon – 425001
47. **Mitul Mehta, Umang Pawar, Vinit Patil, Sharmeen Ahmed, Snehal Gawai and Dr. Sumedh Mhaske (2012)**; “GIS based mapping of Traffic Accident location and its analysis”, *National Conference on Environmental Surveillance for Natural Resource Management (ESNRM – 2012), January 9 - 10, 2012* at School of Environmental & Earth Sciences, North Maharashtra University, Jalgaon – 425001
48. **Vivek Pathade and Dr. Sumedh Mhaske (2012)**; “ Use of expanded Poly-styrene Gofoam for construction of road embankment”, **Twenty eight National Convention of Civil engineers & National Seminar on Role of Infrastucturre for sustainable development by the Institute of Engineers (India) , Roorkee Local Cente, IIT Rookee (RInforSD 2012), October 12 -14 , 2012, Roorkee. Pp 623 -627.**

49. **Umesh Jadhav and Dr, Sumedh Mhaske (2013);** “ Preparartion of Templates for underground utility mapping using Ground Penetrating Radar system”, **AICTE sponsored National Seminar on Recent Practices and applications in Civil Engineering” 31st May to 1st June 2013 at Walchnad College of Engineering, Sangli , Pp 41 -46.**
50. **Ajit Saroj and Dr, Sumedh Mhaske (2013);** “ Site Characterization of Navi Mumbai using Correlation between Shear wave velocity and SPT – N value in GIS platform”, **AICTE sponsored National Seminar on Recent Practices and applications in Civil Engineering” 31st May to 1st June 2013 at Walchand College of Engineering, Sangli , Pp 163 – 176.**
51. **Vinod Vanvari and Dr. Sumedh Mhaske (2014),** “*Need to Have System in place to Assess Dynamics and Rationality of Land-use Change in Metropolitan cities of India, Mumbai in particular*”, **30th National Convention of Civil Engineers and National Seminar on Sustainable Urban Development by M.S Centre of IE(I), Mumbai, page nos. 158-164.**
52. **Vinod Vanvari and Dr. Sumedh Mhaske (2015),** “*System Approach for Project Process of redevelopment of Buildings in City of Mumbai*”, **7th National Civil Engineering Student’s Symposium , Aakaar , at IIT Bomaby.**
53. **Bane A., Dr. Mhaske Sumedh(2019) ,** “Laboratory analysis of bagasse ash and coir fiber Composite Concrete Blocks for Low Cost Housing”, 2nd National Conference on Recent Advances in Civil Engineering (RACE-II), (Accepted)
54. **Mahajan A. D., Dr. Mhaske Sumedh(2019),** “Charcoal coconut shell ash: A modern day approach to enhance the physical properties of bitumen”, Indian Road Congress – Young Conference (IRC-Y) 2018, (Presented).
55. **Mahajan A. D., Dr. Mhaske Sumedh(2019),** “Laboratory Investigation of Charcoal Coconut Shell Ash• Modified Bitumen”, 2nd National Conference on Recent Advances in Civil Engineering (RACE-II) 2019, (Accepted)
56. **Singh B, Dr. Mhaske Sumedh(2019),** “Multi-Criteria Evaluation in GIS for Reconnaissance Survey of Route Selection in Difficult Terrain Using Open Source Data and Software”, Proceeding of 2nd National Conference on Recent Advances in Civil Engineering (RACE-II).Pg. 103-113
57. **S.Poredi, Dr. Mhaske Sumedh(2019),** “Suitability of EPS Geofoam in construction of road embankment : Cost and benefit analysis”, 2nd National Conference on Recent Advances in Civil Engineering (RACE-II), (Accepted)
58. **Chauhan D.S., Dr. Mhaske Sumedh (2019),** “Superpave Mix Design for DBM in Indian Scenario”, 2nd National Conference on Recent Advances in Civil Engineering (RACE-II), (Accepted)
59. **Rishabh Junwale and Dr.Sumedh Mhaske(2020),** “Automation in valuation of residential buildings in F-North ward, mumbai on GIS platform” at National Conference on Advances In Construction Management-2020 TEQIP=III held on 06th -07th March 2020at College of Engineering Pune, Maharashtra, India.

60. Vinod Vanvari and Dr. Sumedh Mhaske (2020): “**Model to predict additional usable Carpet Area in Building Redevelopment Projects of Housing Societies in Mumbai city**” (2020), International conference on Advances in Civil Engineering (ACE 2020) 5-7 November, 2020, **Visvesvaraya National Institute, Nagpur (India)**.
61. Vinod Vanvari and Dr. Sumedh Mhaske (2021): “**Reforms in Regulations and Redevelopment of Buildings of Housing Societies in Mumbai city**” International conference on Advances in Construction Technology and Management (ACTM 2021), **College of Engineering, Pune, (India)** March 19, 2021

Invited Lectures Delivered :

1. Inviting lecture given by **Prof.Sumedh Mhaske** on **18th March, 2011**, at Oklahoma Transportation Center, Oklahoma, USA, on the topic "GIS applications in Transportation Engineering – a road map", organized by *The Oklahoma Transportation Center (OkTC), Tinker Business & Industrial Park, 2601 Liberty Parkway, Suite 110, Oklahoma 73110, USA.* Visit the Link (<http://www.oktc.org/otc/View.aspx?Type=SeminarDetail&ID=21>) to see the presentation given at OKTC.

[3] Workshop / Seminar attended:

Sr.No	Title of seminar	Duration	Sponsored & organized by	Organized By /Venue
1.	“Applications of Geosynthesis in Erosion Control , Slope stability and Lanfills”	23 rd & 26 th , January 2010	Govt. Polytechnic, Goa and Goa chamber of commerce & Industry, DST& Env. Govt. of Goa	Goa Chamber of Commerce & Industry, Panji, Goa , DST& Env. Govt of Goa
2.	“Planning and Designing Earthquake Resistant Buildings”	5 th & 6 th , February 2010	I.E.S. college of architecture and Dhargalkar Technoosis (I) Pvt Ltd	I.E.S. College of Architecture , Bandra (West)
3.	“ Non-invasive subsurface investigation techniques”	24 th Oct. 2009	Lecture by Mr.Mohpatra (Mekaster) & Mr.Deshpande (Renuka Engineers)	IGC Mumbai Chapter ,IIT Bombay
4.	“ Innovations in tall buildings : structural systems and 90 days crisis in Manhattan”	30 th Oct.2009	Lecture by Mr . Ravindra Mysore, President , Lemessurier Consultant USA	Institute of Engineers, Mumbai

5.	“ Subsoil road drainage system “	4 th Nov.2009	Lecture by Mr. Aegidius Schuster and Mr. Kirchner Germany	Institute of Engineers, Mumbai , Westend Hotel Nariman Point, Mumbai
6.	“ Multimedia Systems	02 nd to 07 th Feb.2009 (one week)	Govt. polytechnic Mumbai and VJTI TEQIP Networking Activity	VJTI , Mumbai
7.	“Statistics and its applications to Engineering”	1 st to 5 th Dec 2008 (one week)	Mathematics Dept of VJTI under TEQIP	VJTI, Mumbai
8.	“What Ails Asphalt Roads”	13 th Dec 2003 (One day)	Institute of Engineers, Mumbai	Institute of Engineers, Mumbai
9.	“Pile Foundation”	18 th May 2002 (one day)	UICT, Bombay	General Engineering Division, UICT, Matunga Mumbai

[4] Sponsored Training / Quality Improvement Programme Attended:

Sr.No	Sponsored Training / Workshop	Duration	Sponsored & organized by	Venue
	“Innovation in Governance through Knowledge Management”	16 th to 20 th May 2016	National Productivity Council, Delhi	Hotel Lingzi, Leh, Ladakh
1.	“ Management Capacity enhancement Programme”	16 th to 25 th January, 2013 (Two Week)	MHRD’s National Mission for Teachers under TEQIP - II	Indian Institute of Management (IIM, Indore)
2.	“Performance Based design of structures “	22 nd to 26 th March 2012 (one week)	V.J.T.I. under TEQIP –II activity	Structural Engineering department V.J.T.I. Matunga (East)
3.	“ Pathways to Leadership	23 rd to 25 th April 2010	VJTI – Academic of Human Excellence, Baroda	IIT Bombay , Powai Mumbai
4.	“ Geospatial Technologies and Applications”	18 th to 29 th Sept. 2006 (Two Weeks)	DST- QIP IITB	CSRE, I.I.T. Bombay, Powai , Mumbai

5.	“ Geographical Information System and Its applications”	14 th to 18 th Feb. 2005 (1 Week)	QIP - IITB	Dept. Of Earth Sciences, I.I.T. Bombay , Powai , Mumbai
6.	“ Earthquake Engineering and Risk Mitigation”	4 th to 16 th July 2005 (2 weeks)	Ministry of Home affairs , Govt. Of India - IITB	Dept. Of Civil Engg., I.I.T. Bombay , Powai , Mumbai
7.	“ Integrated Water Resources Management using Numerical methods, Remote sensing and GIS	22 nd to 26 th Nov. 2004 (1 week)	QIP - IITB	Dept. Of Civil Engg., I.I.T. Bombay , Powai , Mumbai
8.	“ Global Positioning System and Its applications”	6 th to 10 th May 2003` (1 week)	DST – IITB	Dept. Of Civil Engg., I.I.T. Bombay , Powai , Mumbai
9.	“Internet Technology”	02 nd Dec. 2002 to 28 th Dec. 2002 (4 weeks)	QIP by ISTE & VJTI	V.J.T.I. Mumbai
10.	“Induction Programme Phase – I”	10 th Nov. 1997 to 06 th Dec. 1997 (4 weeks)	Govt. Polytechnic , Bandra	GP , Bandra, Mumbai

[5]Guidance to the Students for Research Thesis, Dissertation / Project Report:

a) For Ph.D

Sl No	Name of the student/research scholar	Title of Dissertation	Year Started	Year Completed
1	Dattatray Khamkar (Roll No129010114)	GIS based study of rainfall induced Landslides	July 2012	February 2020
2	Mahesh Sonavane (Roll No129010113)	GIS based Building energy simulation in Urban City	July 2012	March 2021
3	Vinod Vanvari (Roll No.139010005)	Redevelopment Of Building – Mumbai city	July 2013	Presynopsis June 2021
4	Upendra Kashinath Kudva	Evaluation and Implementattion of Concrete Waste for Road Sub-Base Layers	July 2015	Cancelled
5	Miss. Vaishali Navale (Roll No.169011007)	GIS based Eco- Neighbourhood Planning of Smart Villages	July 2016	ongoing
6	Darshan Sansare (Roll No.169010001)	Strom water management of Mumbai City by using Permeable Concrete on GIS Platform	July 2016	Presynopsis June2021
7	Talha Mohammad Shafique Shaikh (Roll No 209010001)	Construction Project Delay and Closure study	Jan 2021	Ongoing

b) For M.Tech.

Sl No	Name of the student/research scholar	Title of Dissertation	Year Started	Year Completed
1	Hemal Lad (Roll No: CD-041103)	Geographical Information System and its application in Site Layout work	July 2005	July 2006
2	Vilas Mhatre (Roll No: CD-041105)	Study of Public-Private Partnership in Infrastructure Development	July 2005	July 2006
2	Mohasin I. Modi (Roll No: CD-051109)	Geographical Information System and its Application in Real Estate	July 2006	July 2007
3	Shahid Nisar Shaikh (Roll No: CD-051115)	Enterprises Resource planning and its application in the Construction Industry	July 2006	July 2007
4	Vijay Kolagotla (Roll No : 062030206)	Geographical Information system and its application to Project management in Construction Industry.	July 2007	July 2008
5	Abhishek Dwivedi (Roll No: 072030104)	An Integrated approach of Geographic Information System in earthquake Disaster Management	July 2008	June 2009
6	Durgesh C. Jadhav (Roll No: 072030105)	Application of Global Positioning System (GPS) and Geographic Information System (GIS) in the study of Construction Waste Management	July 2008	June 2009
7	Sachin Mhetrajkar (Roll No 082030107)	Use of GPS to Measure deformation of bridge structure	July 2009	June 2010
8	Laxmikant Mukhedakr (Roll No 082030108)	GIS for flood management	July 2009	June2010
9	Bhusahn R. Gupte (Roll No 092030007)	Integrated approach of GIS and GPR for underground utilities mapping	July 2010	June2011
10	Sachin S. Amrutkar (Roll No 092030010)	GIS based Pavement Management System	July 2010	June2011
11	Shirish B Thorat (Roll No 092030005)	Study of Innovative testing facilities on Bituminous and Concrete road Construction	July 2010	June2011

12	Sandip P. Chaudhari (Roll No 092030012)	Modern Technique for flexible and Rigid pavement distress mapping	July 2010	Nov 2012
13	Vivek Uttam Pathade (Roll No 102030010)	Study of Geofoam as a Construction Material	July 2011	Nov 2012
14	Sandesh D. Nirmale (Roll No.10230013)	Development of Traffic database management system using GIS	July 2011	Nov 2012
15	Sunil Prakash Kudchikar (Roll No 102030012)	GIS based project scheduling and project monitoring of bridge projects	July 2011	June 2012
16	Yogesh sopan Kadam (Roll No102030007)	Geographical Information system based study of green infrastructure	July 2011	Nov 2012
17	Umesh sidramayya Mathmari (Roll No 102030003)	Study of method statements for the construction of offshore structure	July 2011	Nov 2012
18	Chetan V. Bendale (Roll No 102030001)	Construction of Geotubes as erosion control techniques for the Mumbai sea shore	July 2011	Nov 2012
19	Umesh Jadhav (Roll No 112030014)	Development of templates for underground utilities mapping using Ground penetration Radar (GPR) System	July 2012	May 2013
20	Ajit Saroj (Roll No 112030010)	Site Characterization of Navi Mumbai using Correlation between Shear wave velocity and SPT – N value in GIS platform	July 2012	May 2013
21	Prathmesh Gawade (Roll No 11203001)	GIS based Roadway Construction Planning	July 2012	Dec 2013
22	Virle Rajesh Ganpat (Roll No 11203007)	Monitoring of Construction Project by using Earned Value and Earned schedule	July 2012	Dec 2013
23	Mazhar Niyaz Sayed	Road Safety Audit : A GIS Perspective	July 2012	Dec 2013
24	Vijay Kumar Saini (Roll No 112030011)	BIM an emerging technology in time optimization for architecture engineering & Construction (AEC) Industry	July 2012	Dec 2013
25	Darshan A. Sansare Roll No (122030001)	Infrastructure development Aarey Colony, Mumbai on GIS platform- A case study	July 2013	July 2014
26	Yuvraj M. Patil Roll No. 122030006)	GIS Enabled Tool for Effective Land Records Management	July 2013	July 2014

27	Milind N Phatak (Roll No 122030010)	Reduction of Slab Cycle through Effective use of Formwork and Ensuring Verticality with Differential Global Positioning System	July 2013	July 2014
28	Prashant V. Thakare (Roll No - 122030008)	GIS Based Material Management And Supplier Selection In Thane City - A Case Study	July 2013	July 2014
29	Yadhresh Rajendra Udas (Roll No - 132030015)	Geospatial Mapping of Shear wave Velocity of soil of Airoli-Navi Mumbai by using MASW in GIS platform	July 2014	July 2015
30	Rohit G. Bansode (Roll No.- 132030009)	Optimum use of RAP for Asphalt Concrete with Superpave mix design approach	July 2014	July 2015
31	Hemant A. Pandit (Roll no: 132030005)	Traffic Management by using GIS	July 2014	July 2015
32	Ninad D. Sawant (Roll no: 142030016)	GIS based Construction Site Layout	July 2015	July 2016
33	Pooja S. Naringrekar (Rollno: 142031018)	Study on New Supplementary Cementitious Material in Construction of Green Building	July 2015	July 2016
34	Dhanashri M. Bedagkar (Roll no: 142031017)	Application of GIS, GPS and Advanced Techniques in Railway Safety Management	July 2015	July 2016
35	Rohit P Khamkar (Roll no:142030009)	Analysis of work stress on Performance of construction Employees in Mumbai region	July 2015	July 2016
36	Swapnil N Bihade (Roll no: 142030008)	Advanced Technique for Construction of Domes Using Pneumatic Formwork	July 2015	July 2016
38	Akash Padole (Roll no:152030009)	Infrared Thermography for Building Inspection: A Non-Destructive Method	July 2016	July 2017
39	Parag Darade (Roll no: 152030015)	Evaluation of Pavement using GPR	July 2016	July 2017
40	Nitesh Pawar (Roll no:152030017)	Measuring Shear Wave Velocity Using MASW Method and Determining its use in Construction Engineering Field	July 2016	July 2017
41	Nikita T. Bhagat (Roll no: 152031002)	A Study on the Application of GIS in Preconstruction Planning of Rural Water Distribution Network	July 2016	July 2017

42	Sharda Somvanshi (Roll no: 162031006)	Integrated approach of GIS and GPS for equipment Management in Construction Industry in Mumbai City	July 2017	July 2018
43	Prathmesh Pawar (Rollno: 162030003)	Experimental Investigation of Ceramic Waste in Bituminous Concrete	July 2017	July 2018
44	Kartik S. Nighute (Rollno: 162030008)	Mitigation Techniques to improve shortage of skilled labour in Construction Industry of Mumbai City	July 2017	July 2018
45	Ankit Nandgaonkar (Rollno: 162030015)	Comparison of Restoration Techniques for Public Heritage Buildings	July 2017	July 2018
46	Meghraj K. Magdum (Rollno: 162030010)	Application of Geospatial Technology to Freeway Management System	July 2017	July 2018
47	Bhupendra Singh (Roll No 172030002)	Multi-Criteria Evaluation in GIS for Reconnaissance Survey of Route Selection in Difficult Terrain Using Open Source Data and Software	July 2018	July 2019
48	Abhishek Arvind Bane (172030001)	Cost Efficiency and Performance Evaluation of Sustainable Material Alternatives for Low-Cost Housing	July 2018	July 2019
49	Abhishek Dnyaneshwar Mahajan (172030009)	Laboratory Investigation of Charcoal Modified Bitumen for Efficient Pavement Construction	July 2018	July 2019
50	Sarvesh Santosh Poredi (172030012)	Suitability of EPS Geofoam in construction of road embankment: Cost and benefit analysis	July 2018	July 2019
51	Digvijay Singh Chauhan (172030003)	Effect on Cost of Dense Bituminous Macadam prepared using Superpave Guidelines	July 2018	July 2019
52	Shaikh Arshad (172030011)	Performance, Time & Cost Evaluation of Coir Fiber Reinforced Subgrade	July 2018	July 2019
53	Shirazi Ali Asgar Gulam Abbas (Roll No - 182030011)	Resource Allocation of Underground Railway Station Using Microsoft Project in Mumbai	July 2019	July 2020
54	Manjrekar Nikhil Pradipnarayan (Roll No - 182030010)	Spatial Multi-Criteria Evaluation for Selection of Haul Route and Material Sourcing Site for Mumbai Coastal Road Project	July 2019	July 2020
55	Pushkar Kulkarni (Roll No - 182030009)	GIS based Sustainable Material Procurement in the Construction Industry with the use of Analytical Hierarchy Process	July 2019	July 2020

56	Rishabh Deepak Junwale (Roll No - 182030007)	Automation in valuation of residential Buildings in F-North ward, Mumbai on GIS Platform	July 2019	July 2020
57	Ms. Patil Anagha Anil (Roll No - 192031015)	Bus Rapid Transit System In Navi Mumbai Using Q-GIS Software	July 2020	July 2021
58	Disha S. Deulkar (Roll No - 192031005)	Land Use Zoning and Hazard Analysis Around Pune Airport Using GIS	July 2020	July 2021
59	Khan Waqar Ahmed Imtiyaz (192030010)	Change Management & The Concept Of Common Data Environment In Indian Construction Industry	July 2020	July 2021
60	Varsha Lekhraj Ahuja (Roll No - 192031001)	Redevelopment Of A Staggered Intersection At Seven Hills Square, Aurangabad	July 2020	July 2021
61	Mustafa Juzer Sakerwala (Roll No - 192030018)	Utilization Of Stone Matrix Asphalt For National Highways.	July 2020	July 2021

c) For B.Tech.

Sl No	Name of the students	Title of Dissertation	Year Started	Year Completed
1	Swati Ingale Santosh Jadhav Praveen Lolam Pradeep Potty	Geographic Information System and its applications in Noise Level mapping and traffic Monitor study	July 2006	May 2007
2	Arun Sowmitri Kanchan Shejwal Prajakta Mahajan Sushil Rankhamb Amey Gagan	Geographic Information System and its applications in prepare a spatial map of VJTI	July 2006	May 2007
3	Paragr Joshi Shivkumar Singh Tejas Bhamburkar Kalpana Shende	Hydrographic survey using Global positioning system and geographic information system	July 2007	May 2008
4	Naroha Anthony Jadkar Vaibhav Firke Gayatri Kalantri Sourabh	Geographic Information System and its applications in Town Planning	July 2007	May 2008
5	Prashant Anghrakh Mayur Shimpi Mitali Gharat Ranjana Dalvi	Application of GIS and GPS for mapping Soil Index Properties	July 2008	May 2009

6	Mayank Ajungia Prachi Dahiwale Mama Neelam Swetabh Kamble Avinash Sawant	Application Geographic Information System in mapping of Coastal Regulation Zone of Mumbai	July 2008	May 2009
7	Rahul Tank Vivek Valiya Yogesh Ghule Dhiraj wakode Niraj Vishwakarma	Application of GIS and GPS in Foundation in Marine clay	July 2009	May 2010
8	Devyani Mhatre Kiran Terse Vivek Jakkani Punit Nerulkar Lalit Vishwkarma	Application of GIS and GPS in seismic hazards of Mumbai	July 2009	May 2010
9	Udaipurwala Ahdali Saudagar Mateen Palkar Saloni Motewad Pranita Singh Ranjyot	Integrated approach of GIS,GPS and GPR for underground utilities mapping	July 2010	May 2011
10	Prashant Pedamkar Sachin adhav Bhagyashri Undale Chandiramani Pawar Prabhanjan Chigare Yailang Rika	Use of GIS and GPS in Rainwater harvesting Potential for Mumbai ward	July2010	May 2011
11	Snehal Gawai Mitul Mehta Sharmeen Ahmed Umang Pawar Vinit Patil	GIS based mapping of Traffic accident locations and its analysis	July2011	May 2012
12	Jivan Pachpande Poonam Mahajan Prathmesh Argade Shivraj Patil Prathmesh Chaudhari	GIS – GPS based feasibility study of Navi Mumbai International airport	July2011	May 2012
13	Zain Abbas Vakil Avanti Patil Prajakta Jadhav BhagyashreeChaudhari Señal Pagar	Preparation of templates for underground utilities mapping using Ground penetration Radar	July 2012	May 2013
14	Kshitij Zain Dhruvit Madhani Ketan Majan Rutuja Gosavi Samkit Jain Prassanna Langote	Study of Advanced Construction Techniques in High Rise Buildings and Monitoring Verticality by using GPS	July 2013	May 2014

15	Samarth Kerlia Needhi Nagwekar Pooja Mahagaonkar Roshan Bharambe Parth Gawade	Geospatial Mapping for study of Cluster Development F/North ward, Matunga	July 2014	May 2015
16	Akshay Pawar Akshay Gholap Harsh Doshi Dhanshree Patil Pranay Thakur Prashant Nikumbh	Smart City: GIS based approach for improving road Transportation of Navi Mumbai area	July 2015	May 2016
17	Sagar G Ingale Shubham H Bayskar Prajyot P Hasabe	Study of core structure preceding and succeeding method for tall building construction	July 2016	May 2017
18	Rasesh Patil Aakash Patel Smita Gaikwad Sampada Mane	Mapping of Sewer System In VJTI campus by using Mobile application- GPS essential	July 2017	May 2018
19	Amey Chaudhari Avinash Kanode Sonam Khairnar Shraddha Datta	Stabilisation Of Soil Using Jute Fibre	July 2018	May 2019
20	Manish Khiyani AnujVishwakarma Divyesh Shah Ajay Waghmade	Determination of dynamic properties of soil using multichannel analysis of surface waves.	July 2018	May 2019
21	Mehul Patil Siddhesh Keni Aniruddh Nagdeote Ajay Tidke	Study of Stone Matrix Asphalt using Marshall Stability Test	July 2019	May 2020
22	Manish Agrawal Milind Chavan Sanket Dnyanwadkar Vaibhav Pardhikar	Comparision Of Scour Depth Prediction Criteria (Guide: Dr.Rutuja Chavan Co-Guide: Dr Sumedh Mhaske)	July 2019	May 2020
23	Akhilesh Rangari Hrishkesh Deshmukh Dhananjay Puri Sarvesh Kawale	Study of Plumbing System in High Rise Building	July 2020	May 2021
24	Abhishek Chaudhari Saurabh Kanoje Subodh Shelake Umer Bhatt	Study Of Design Parameters Of Flexible And Rigid Pavement Using Python GUI	July 2020	May 2021