

## DEPARTMENT OF CIVIL ENGINEERING

Project Details 2019-20

| Group No. | Title of Project                                                                                      | Name of Students    | Area of Project                   | Remark | Internal Guide Name/Qualification/Experience |
|-----------|-------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|--------|----------------------------------------------|
| 01        | Prestressed Three Hinged Arch                                                                         | Gunjal Pawan        | Prestressed concrete              |        | Dr. M. R. Wakchaure<br>Ph D Structure        |
|           |                                                                                                       | Soundhiya Durgadevi |                                   |        |                                              |
|           |                                                                                                       | Bagade Pradnya      |                                   |        |                                              |
|           |                                                                                                       | Andhale Vishal      |                                   |        |                                              |
| 02        | Design of flyover bridge using prestressed girder.                                                    | Saner Pragati       | Prestressed concrete              |        | Dr. M. R. Wakchaure<br>Ph D Structure        |
|           |                                                                                                       | Kute Ruchita        |                                   |        |                                              |
|           |                                                                                                       | Mali Girish         |                                   |        |                                              |
|           |                                                                                                       | Mahajan Tusahar     |                                   |        |                                              |
| 03        | Land use and land cover change detection analysis using Remote Sensing and GIS                        | Khaire Piyusha      | Software and computer application |        | Dr. J.B. Gurav<br>PhD Civil Engg.            |
|           |                                                                                                       | Ilhe Pranjali       |                                   |        |                                              |
|           |                                                                                                       | Kadam Gitanjali     |                                   |        |                                              |
|           |                                                                                                       | --                  |                                   |        |                                              |
| 04        | Identification and analysis of missing water bodies of a particular area using Remote Sensing and GIS | Kolhe Kalyani       | Software and computer application |        | Dr. J.B. Gurav<br>PhD Civil Engg.            |
|           |                                                                                                       | Kolhe Shivani       |                                   |        |                                              |
|           |                                                                                                       | --                  |                                   |        |                                              |
|           |                                                                                                       | --                  |                                   |        |                                              |
| 05        | Experimental investigation of liquefaction of a structure using shake table                           | Agrawal Sumit       | Structural Dynamics               |        | Dr. N. U. Mate<br>Ph D Structure             |
|           |                                                                                                       | Chaudhari Rahul     |                                   |        |                                              |
|           |                                                                                                       | Hire Dhananjay      |                                   |        |                                              |
|           |                                                                                                       | Chavan Aksahy       |                                   |        |                                              |

|    |                                                                               |                                                                                  |                           |                                     |
|----|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------|-------------------------------------|
| 06 | Jalyukta Shivar Abhiyan of village nearby Sangamner. (UMA)                    | Mulay Vaibhav<br>Mhaske Rohit<br>Mhasade Kunal<br>Pansare Shubham                | Jalyukta Shivar (UMA)     | Dr. N. U. Mate<br>Ph D Structure    |
| 07 | Experimental investigation of building response under railway track vibration | Shalini Barke<br>Pavan Dhone<br>Prakta Dube<br>Shivani Gosavi                    | Structural Dynamics       | Dr. N. U. Mate<br>Ph D Structure    |
| 08 | Environmental planning model for sustainable rural development                | Pawar Amol<br>Padekar Aishwarya<br>Suryavanshi Nilesh<br>Shelake Sudhir Bastiram | Environmental Engineering | Dr. R.S. Ingole<br>Ph D Environment |
| 09 | Removal thenol by adsorption                                                  | Abhang Kabir<br>Benke Vivek<br>Bhor Chetan<br>Borase darshan                     | Environmental Engineering | Dr. R.S. Ingole<br>Ph D Environment |
| 10 | Stabilization pond for waste water treatment                                  | Wagh Abhiraj<br>Nawale Sonali Vikas<br>Andhale Rupali<br>Shinde Dhanashree       | Environmental Engineering | Dr. R.S. Ingole<br>Ph D Environment |
| 11 | Utilization of waste glass in concrete                                        | Pedhekar Sopan<br>Palande Vikaas<br>Ghare Sandip<br>Gaikwad Suraj                | Engineering Material      | Er. Pawar S.M<br>M.E. WRE           |
| 12 | Use of ferro-cement for structural element                                    | Mahajan Gayatri<br>Dole Pallavi<br>Ganje Shravan<br>Kadam Bajrang                | Ferro-cement Material     | Er. Pawar S.M<br>M.E. WRE           |

|    |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                                            |
|----|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|
| 13 | Feasibility study of modified stabilization tank for treatment of sewage | Holkar Sakshi<br>Jangam Supriya<br>Kanawade Prajкта<br>Kashid Smita<br>Mali Sagar<br>Shelake Dnyaneshwar<br>Phapale Jaydeep<br>Rupawate Aniket<br>Pansare Snehal<br>Shinde Dipti<br>Shirsath Ravikiran<br>Sonawane Akanksha<br>Kasar Akshay<br>Lavhate Abhinav<br>Vane Siddhant<br>More Mohan<br>Gaikwad Suraj<br>Kale Rushikesh<br>Jagtap Rahul<br>Barate Rushikesh<br>Gunjal Akash<br>Girhe Gokul<br>Dighe Rushikesh<br>Kanawade Pratik | Environmental Engineering | Er. Pawar S.M<br>M.E. WRE                  |
| 14 | Stabilization of soil by using Crum rubber                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           | Soil Mechanics            | Er. A.V. Navale<br>M. Tech (Offshore Engg) |
| 15 | Effect of nano-clay on mechanical properties of concrete                 |                                                                                                                                                                                                                                                                                                                                                                                                                                           | Soil Mechanics            | Er. A.V. Navale<br>M. Tech (Offshore Engg) |
| 16 | Effective drainage system                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irrigation Engineering    | Er. Auti V.A.<br>M.E. WRM                  |
| 17 | Bar bending machine                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                           | Innovative techniques     | Er. Auti V.A.<br>M.E. WRM                  |
| 18 | Free energy pump (Ramp pump)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                           | Innovative techniques     | Er. Auti V.A.<br>M.E. WRM                  |



|    |                                                                   |                     |                                 |                                     |
|----|-------------------------------------------------------------------|---------------------|---------------------------------|-------------------------------------|
| 19 | Atomized smart irrigation water distribution network system       | Shinde Abhimanyu    | Irrigation Engineering          | Er. Rahane V.R.<br>M.E. Environment |
|    |                                                                   | Bajare Prasad       |                                 |                                     |
|    |                                                                   | Yadav Deepak        |                                 |                                     |
|    |                                                                   | Bajare Saurabh      |                                 |                                     |
| 20 | Use of plastic waste for flooring material                        | Bibave Pooja        | Recycling of material           | Er. Rahane V.R.<br>M.E. Environment |
|    |                                                                   | Gudaghe Sonali      |                                 |                                     |
|    |                                                                   | Satpute Shubhangi   |                                 |                                     |
|    |                                                                   | Mithe Amruta        |                                 |                                     |
| 21 | Replacement of fine aggregate with thermal plant waste (granules) | Borude Pranita      | Recycling of material           | Er. Rahane V.R.<br>M.E. Environment |
|    |                                                                   | Kolape Mahendra     |                                 |                                     |
|    |                                                                   | Kote Suraj          |                                 |                                     |
|    |                                                                   | Lokhande Siddhartha |                                 |                                     |
| 22 | INSDAG Competition                                                | Dhindale Shubhangi  | Industry Based project          | Er. V.P. Kulkarni<br>M.E. Structure |
|    |                                                                   | Jagdhane Pratiksha  |                                 |                                     |
|    |                                                                   | Khedkar Akshay      |                                 |                                     |
|    |                                                                   | Gadakh Sanket       |                                 |                                     |
| 23 | Detailed project report on Samruddhi Express Highway              | Kaldante Priyanka   | Highway and transportation Engg | Er. V.P. Kulkarni<br>M.E. Structure |
|    |                                                                   | Kale Kiran          |                                 |                                     |
|    |                                                                   | Gadhawe Vaibhav     |                                 |                                     |
|    |                                                                   |                     |                                 |                                     |
| 24 | Sewage treatment plant for AVCOE                                  | Hange Rushikesh     | Environmental Engineering       | Er. V.P. Kulkarni<br>M.E. Structure |
|    |                                                                   | Bangar Kishor       |                                 |                                     |
|    |                                                                   | Darade Vishwajeet   |                                 |                                     |
|    |                                                                   | Chakor Sachin       |                                 |                                     |
| 25 | Earthquake effect on castellated beam                             | Nemade Durgesh      | Advanced steel structure        | Er. A.J. Mehetre<br>M.E. Structure  |
|    |                                                                   | Jagtap Ritesh       |                                 |                                     |
|    |                                                                   | Patil Jagdish       |                                 |                                     |
|    |                                                                   | Kahandal Atul       |                                 |                                     |

|    |                                                                                         |                    |                                    |                                     |
|----|-----------------------------------------------------------------------------------------|--------------------|------------------------------------|-------------------------------------|
| 26 | Dynamic analysis of castellated beam                                                    | Raut Vishwajeet    | Advanced steel structure           | Er. A.J. Mehetre<br>M.E. Structure  |
|    |                                                                                         | Nil Kushal         |                                    |                                     |
|    |                                                                                         | Mohan Lal          |                                    |                                     |
|    |                                                                                         | Vadate Dnyaneshwar |                                    |                                     |
| 27 | Application of ferro-cement technology in Civil Engineering                             | Dev Durgesh        | Ferro-cement Material              | Er. A.J. Mehetre<br>M.E. Structure  |
|    |                                                                                         | Kapse Vaishnavi    |                                    |                                     |
|    |                                                                                         | Shinde Shweta      |                                    |                                     |
|    |                                                                                         | Dahiwal Dhananjay  |                                    |                                     |
| 28 | Affordable and sustainable housing as an economical environment-Straw-Bale construction | Naikwadi Sonal     | Innovative construction techniques | Er. S.B. Kandekar<br>M.E. Structure |
|    |                                                                                         | Navale Snehal      |                                    |                                     |
|    |                                                                                         | Pawar Mayura       |                                    |                                     |
|    |                                                                                         | Sable Mohini       |                                    |                                     |
| 29 | Structural Audit of a bridge                                                            | Sonawane Jayesh    | Structural engineering             | Er. S.B. Kandekar<br>M.E. Structure |
|    |                                                                                         | Tanpure Siddhi     |                                    |                                     |
|    |                                                                                         | Tonde Rushikesh    |                                    |                                     |
|    |                                                                                         | Ugale Pranoti      |                                    |                                     |
| 30 | Corrosion of prestressed concrete structures                                            | Munge Mahesh       | Prestressed concrete               | Er. S.B. Kandekar<br>M.E. Structure |
|    |                                                                                         | Varpe Akshay D.    |                                    |                                     |
|    |                                                                                         | Patil Vaibhav      |                                    |                                     |
|    |                                                                                         | Borkar Dhananjay   |                                    |                                     |
| 31 | A review on application techniques of natural disaster                                  | Ahire Kalyani      | Disaster management                | Er. A.R. Ghode<br>M. Tech Structure |
|    |                                                                                         | Jat Atul           |                                    |                                     |
|    |                                                                                         | Dhole Aniket       |                                    |                                     |
|    |                                                                                         | Bidgar Nayan       |                                    |                                     |
| 32 | Vibration control on bridges                                                            | Shreeram Walzade   | Structural Dynamics                | Er. A.R. Ghode<br>M. Tech Structure |
|    |                                                                                         | Pooja Murtadak     |                                    |                                     |
|    |                                                                                         | Trupti Adep        |                                    |                                     |
|    |                                                                                         | Neha Lahamge       |                                    |                                     |

|    |                                                               |                    |                                  |                                          |
|----|---------------------------------------------------------------|--------------------|----------------------------------|------------------------------------------|
| 33 | To design of water supply scheme for village                  | Nawale Rushikesh   | Irrigation And Water Supply      | Er. Gite B.E.<br>M.E. Structure          |
|    |                                                               | Papal Shreyash     |                                  |                                          |
|    |                                                               | Pawar Nikhil       |                                  |                                          |
|    |                                                               | Shelake Omkar      |                                  |                                          |
| 34 | Effective drainage system for stadium                         | Kadam Shubham      | Irrigation And Water Supply      | Er. Gite B.E.<br>M.E. Structure          |
|    |                                                               | Kadlag Mahesh      |                                  |                                          |
|    |                                                               | Kale Pournima      |                                  |                                          |
|    |                                                               | Katore Saurabh     |                                  |                                          |
| 35 | Water lifting by creating vacuum without electricity          | Barve Karishma     | Irrigation And Water Supply      | Er. Gite B.E.<br>M.E. Structure          |
|    |                                                               | Sanap Akshay       |                                  |                                          |
|    |                                                               | Surana Komal       |                                  |                                          |
|    |                                                               | Rajput Ashwini     |                                  |                                          |
| 36 | Landscape planning proposal to Nilwande Dam                   | Desale Shubham     | Architecture and planning        | Er. Kokate M.D<br>M. Tech Urban Planning |
|    |                                                               | Chaudhari Piyush   |                                  |                                          |
|    |                                                               | Bhabad Pratibha    |                                  |                                          |
|    |                                                               | Karanjekar Monali  |                                  |                                          |
| 37 | Mass rapid transport system route planning for urbanized area | Dhamale Sayali     | Highway and transportation Engg. | Er. Kokate M.D<br>M. Tech Urban Planning |
|    |                                                               | Dighe Prajakta     |                                  |                                          |
|    |                                                               | Kesekar Yugandhara |                                  |                                          |
|    |                                                               | Ingale Pooja       |                                  |                                          |
| 38 | Removal of heavy metal from waste water                       | Sonawane Vishal    | Fluid mechanics                  | Er. Chandane P.R.<br>M.E. Environment    |
|    |                                                               | Jagtap Amar        |                                  |                                          |
|    |                                                               | Mandade Amol       |                                  |                                          |
|    |                                                               | Gawali Abhishek    |                                  |                                          |
| 39 | Phyroid waste water treatment technology                      | Pawar Mayur        | Environmental engineering        | Er. Chandane P. R.<br>M.E. Environment   |
|    |                                                               | Prasad Ajay        |                                  |                                          |
|    |                                                               | Marade Shubham     |                                  |                                          |
|    |                                                               | Biradar Niraj      |                                  |                                          |
| 40 | Compact and portable shelter                                  | Punde Pradip       | Innovative                       | Er. P.R. Mehetre                         |
|    |                                                               | Rane Rushali       |                                  |                                          |



|    |                                                            | Raut Karan<br>Sahane Shivam<br>Argade Arti<br>Avhad Mahesh<br>Darade Akash<br>Godase Vikrant<br>Holgir Ajay S<br>Gunjal Atul R.<br>Ghodake Atul<br>Sonawane Swapnil<br>Tamboli Ayaj<br>Rahane Vijay<br>Maghade Jayraj<br>Kalaskar Onkar<br>Kanse Ajay<br>Imran fakir<br>Sana Shaikh<br>Pooja Mahajan<br>Argade Abhishek<br>Shekhar Dhanvate<br>Abhijeet Dighe<br>Rahul Gadhave<br>Varpe Prathamesh<br>Wable Siddhartha<br>Wakchaure Akshay<br>Wakchaure Sheetal | Instruction<br>techniques                | M.E. Structure                     |
|----|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------|
| 41 | Green bridges                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Innovative<br>construction<br>techniques | Er. P.R. Mehetre<br>M.E. Structure |
| 42 | Improvement in share wall techniques                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | construction<br>techniques               | Er. P.R. Mehetre<br>M.E. Structure |
| 43 | Solution for improving road safety                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Highway and<br>transportation<br>Engg    | Er. Kolhe S.B.<br>M.E. Structure   |
| 44 | Steel intensive building for rural application             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Industry<br>Based project                | Er. Kolhe S.B.<br>M.E. Structure   |
| 45 | INS DAG- Steel intensive & innovative food<br>grain godown |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Industry<br>Based project                | Er. Kolhe S.B.<br>M.E. Structure   |
| 46 | Disaster management of land slide                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Disaster<br>management                   | Er. N.K. Khairnar<br>M.E Structure |

|    |                                                                                      |                    |                                    |                                    |
|----|--------------------------------------------------------------------------------------|--------------------|------------------------------------|------------------------------------|
| 47 | Water hyacinth in dairy waste water treatment                                        | Wakchaure Tejas    | Environmental engineering          | Er. N.K. Khairnar<br>M.E Structure |
|    |                                                                                      | Wakchaure Yachana  |                                    |                                    |
|    |                                                                                      | Patil Prashant     |                                    |                                    |
|    |                                                                                      | Sonawane Prajwal   |                                    |                                    |
| 48 | Construction of E.V. road                                                            | Badhe Rushikesh    | Highway and transportation Engg    | Er. T.R. More<br>M.E. Structure    |
|    |                                                                                      | Bhamre Pratik      |                                    |                                    |
|    |                                                                                      | Chadhari Ashwini   |                                    |                                    |
|    |                                                                                      | Khemnar Anuja      |                                    |                                    |
| 49 | Spent wash treatment of sugar factory by electrolysis and electrocoagulation process | Kolapkar Rushikesh | Environment Engineering            | Er. T.R. More<br>M.E. Structure    |
|    |                                                                                      | Naikwadi Deepak    |                                    |                                    |
|    |                                                                                      | Pawar Tejas        |                                    |                                    |
|    |                                                                                      | Kolhe Prachi       |                                    |                                    |
| 50 | Construction of Dome Structure using Aircrete                                        | Ghule Akshay       | Innovative construction techniques | Er. T.R. More<br>M.E. Structure    |
|    |                                                                                      | Hole Shubham       |                                    |                                    |
|    |                                                                                      | Gavali Bhaskar     |                                    |                                    |
|    |                                                                                      | Baramate Dayanand  |                                    |                                    |

  
Er. S.R. Wale

Project Coordinator

  
Dr. J. B. Gurav  
Head of the Department

Head of The Deptt. (Civil)  
Amrutahini College of Engg  
Sangamner 432608