

## CERTIFICATE

This is to certify that the dissertation entitled "**Seismic Analysis Of Prestressed Concrete Bridge Subjected To Ground Motion Using Time History Method**" which is being submitted herewith for the award of the '**Master of Engineering in Civil Structures**' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Sushil Arunappa Naikwade (Seat No. 9D0000064)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the project report entitled “**A Fifth Order Shear Deformation Theory for Thick Aluminum Beams**”, which is being submitted to Shreeyash College of Engineering and Technology, affiliated to Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra State, India in the faculty of Science and Technology in partial fulfillment of the requirements for the award of ‘**Masters**’ in ‘**Structural Engineering**’. This is the result of the original work and contribution by ‘**Mr. Shaikh Razi Anwar Alauddin**’ under my supervision and guidance. The work embodied in this report has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma /examining body or university to the best of knowledge and belief.

Place: Aurangabad

Date:



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This is to certify that the dissertation entitled "**Study of Soft Storey on High Rise (G+29) Cylindrical Shaped Structure Under Earthquake & Wind Effect**" which is being submitted herewith for the award of the '**Master of Engineering in Civil Structures**' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Shaikh Irshad Akbar (Seat No. 9D0000062)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled "**Thermal Analysis of Plate and Frame by Using Abaqus software**" which is being submitted herewith for the award of the '**Master of Engineering in Civil Structures**' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Lalit Ashok Jadhav (Seat No. 9D0000102)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.

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This is to certify that the dissertation entitled “**Seismic Analysis of G + 10 Storey RC Frame Building By Using IS 1893, EC 8 and UBC Seismic Codes**” which is being submitted herewith for the award of the ‘**Master of Engineering in Civil Structures**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Sachin Ramkrishan Gadade (Seat No. 9D0000101)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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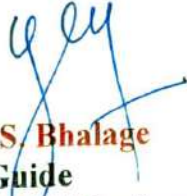


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This is to certify that the dissertation entitled "**Experimental Study on Replacement of Coarse & Fine Aggregate by Waste Marble with addition of S-fiber**" which is being submitted herewith for the award of the '**M.Tech in Civil Structures**' of Dr. Babasaheb Ambedkar Technological University, Lonere. This is the contribution by Ms. Kavita Kiranrao Pathak (PRN 20211220171221210002) under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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