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1.3.2 Number of students undertaking project work/field work / internships:

S.N.	Enrollment No.	Student Name	Branch	Project Title	Internal Guide
A1	0511CS201002	ANKIT RAITWAR	CSE	Finding a Missing Person using AI	Prof. Poornima Dwivedi
	0511CS201012	SAKSHEE LOKHANDE	CSE		
	0511CS201015	SHIVAM PATEL	CSE		
B1	0511CS201004	ASHARAM MASKARE	CSE	Student Performance Analysis Using Machine Learning Algorithm	Prof. Manvendra Singh Divakar
	0511CS201006	MANISH KUMAR SHAH	CSE		
	0511CS201010	RICHA VISHWAKARMA	CSE		
C1	0511CS201014	SHAM SHIR ALI	CSE	Performance Analysis on Student Feedback using Machine Learning Algorithms	Prof. Vinod Kumar Yadav
	0511CS201019	UJJAWAL CHATURVEDI	CSE		
	0511CS201018	TANU CHOUKSEY	CSE		
D1	0511CS213D03	BAHE MAYUR DIGAMBAR	CSE	Deep Learning for Large-Scale Traffic-Sign Detection And Recognition	Prof. Poornima Dwivedi
	0511CS213D04	FAHEEM AHMAD	CSE		
E1	0511CS213D09	MD ASIF ALI ANSARI	CSE	Detecting the Security Level of Various Cryptosystems Using Machine Learning Models	Prof. Manvendra Singh Divakar
F1	0511CS213D11	MEENA KUMARI	CSE	Cyber Threat Predictive Analytics for Improving Cyber Supply Chain Security	Prof. Vinod Kumar Yadav
	0511CS213D12	NARENDRA	CSE		
G1	0511CS213D14	POOJA SAHU	CSE	Cyber Hacking Breaches Prediction Using Machine Learning	Prof. Poornima Dwivedi
	0511CS213D17	SAIF ALI	CSE		
	0511CS213D18	SAQIB IQBAL BATT	CSE		
	0511CS213D22	SAVIKA CHOUDHARI	CSE		



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H1	0511CS213D24	TAJ MUHAMMAD MOMIN	CSE	Detecting the Security Level of Various Cryptosystems Using Machine Learning Models	Prof. Manvendra Singh Divakar
A1	0511CN201011	PRAKASH AGOTRA	Cyber	Open Source host Based Intrusion Detection System	Prof. Poornima Dwivedi
	0511CN201003	ANSHUL NAGLE	Cyber		
	0511CN201006	HIMANI	Cyber		
B1	0511CN201005	DARSHNA SUKHWANI	Cyber	Face Recognition Using Computer Vision and CNN Algorithm	Prof. Manvendra Singh Divakar
	0511CN201004	ARVIND AHIRWAR	Cyber		
	0511CN201009	PARAS VISHWAKARMA	Cyber		
C1	0511CN201002	ANIKET MALVIYA	Cyber	Detecting Unauthorized Access of Personal Device	Prof. Vinod Kumar Yadav
	0511CN201010	PRABHAT SINGH	Cyber		
	0511CN201007	JAYSHREE	Cyber		
A1	0511CE213D05	AYUSH PANDEY	CE	Soil Stabilization by using Industrial waste	Prof. Manjula Singh
	0511CE213D07	HOMENDRA	CE		
	0511CE213D08	LALIT JAMBHARE	CE		
	0511CE213D10	MD AFJAL ANSARI	CE		
	0511CE213D11	MD KAIF AKRAM	CE		
A2	0511CE213D14	NAVED MUSHARRAF	CE	Rain Water Harvesting	Prof. Sangharsh Kumar Chaudhary
	0511CE213D16	PRAVIN KUMAR RAHI	CE		
	0511CE213D24	SHUBHAM	CE		
	0511CE213D27	VINOD KUMAR JAYSWAL	CE		
	0511EE201001	ADITYA HANSARI	EE		
	0511EE201004	KUMARI SANJANA	EE		
	0511EE201007	PRABHAKAR KUMAR SHAH	EE		



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A1	0511EE201009	SHIVENDRA MISHRA	EE	EV	Prof. SK Verma
	0511EE213D02	AASHISH GIRI	EE		
	0511EE213D06	ANURADHA SINGH	EE		
	0511EE213D13	HEMPUSHPA SHRIVAS	EE		
	0511EE213D21	MANZAR ALAM	EE		
	0511EE213D26	NAND KISHOR	EE		
	0511EE213D34	PREM SHANKAR KUMAR	EE		
	0511EE213D37	RAJKUMAR GADEKAR	EE		
	0511EE213D48	SURBHI RAIKWAR	EE		
	0511EE213D49	SURESH SHAH	EE		
	0511EX213D02	KARISHMA KUSHWAHA	EX		
B1	0511EE203D17	KAMLESH SAMANPURE	EE	INVERTER	Prof. Jitendra Shukla
	0511EE203D30	MUKESH BAGHEL	EE		
	0511EE203D32	NITESH KUMRE	EE		
	0511EE213D17	LEKHRAM BOPCHE	EE		
	0511EE213D35	RAGHUVeer SINGH YADAV	EE		
C1	0511EE213D40	RINKY KUSHWAHA	EE	Smart Display	Prof. SK Verma
	0511EE213D47	SURAJ	EE		
	0511EE213D53	VIKAS AGRAWAL	EE		
	0511EE213D04	ALKESH SIMAIYA	EE		
	0511EE213D11	DEEPENDRA YADAV	EE		
	0511EE213D14	INDRAKUMAR	EE		
	0511EE213D15	KRISHNA GOPAL SARASWAT	EE		
	0511EE213D16	LALITA ROHIT	EE		
	0511EE213D28	NEETU KANKER	EE		
	0511EE213D19	MANJEET SARATHE	EE		



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	0511EX213D11	VIKASH KUMAR	EX		
A1	0511MI213D04	AJAY KUMAR MISHRA	MI	IMPROVEMENT OF ACCURACY OF MULTI GAS DETECTOR IN UNDER GROUND COAL MINE	PROF. GAUTAM KUMAR
	0511MI213D25	KAUSHAL SINGH RATHOUR	MI		
	0511MI213D20	DEEPAK SINGH RAJPOOT	MI		
	0511MI213D26	KULDEEP SINGH	MI		
B1	0511MI213D37	RAMSEVAK YADAV	MI	ASSESSMENT OF VELOCITY OF AIR IN UNDERGROUND MINE	PROF. RISHABH DWIVEDI
	0511MI213D58	VAIBHAV VERMA	MI		
	0511MI213D62	VIPUL SHRIVASTAVA	MI		
	0511MI213D24	INDRAJEET SAKARE	MI		
C1	0511MI201001	RITESH NAGPURE	MI	STUDY OF OXYGEN BREATHING APPARATUS	PROF. AADIL KHAN
	0511MI201003	VIKAS KUMAR BAIS	MI		
	0511MI213D39	RIZWAN KHAN	MI		
	0511MI213D28	MD TAUSIF ANSARI	MI		
D1	0511MI213D15	ANURAG YADAV	MI	OPTIMUM DESIGN AND ANALYSIS OF JAW CRUSHER	PROF. PAWAN CHAUDHARY
	0511MI213D50	SHUBHAM MOHBHEY	MI		
	0511MI213D60	VINEET SINGH	MI		
	0511MI213D41	SANJAY KUMAR PRAJAPATI	MI		
E1	0511MI213D61	VIPIN PATEL	MI	A STUDY OF ROLL CRUSHER AND POSSIBLE SOLUTION FOR REDUCING DUST	PROF. ARUN MALVIYA
	0511MI213D59	VINAY KUMAR	MI		
	0511MI213D53	SURAJ KUMAR PRADHAN	MI		
F1	0511MI213D07	AJAY YADAV	MI	STUDY OF CO DETECTOR	PROF. SHUBHAM SAHU
	0511MI213D05	AJAY KUMAR SHAH	MI		
	0511MI213D31	PANKAJ KUMAR SHAH	MI		
G1	0511MI213D01	ABHISHEK KUMAR SINGH	MI	STUDY OF METHENOMETER	PROF. PRATUL GUPTA
	0511MI213D08	AKASH KAPSE	MI		



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	0511MI213D11	AMANRAJ TIWARI	MI	AND ITS SCOPE AND LIMITATION	
	0511MI213D19	CHANDRA PRAKASH RATHOUR	MI		
	0511MI213D30	NITISH KU. DWIVEDI	MI		
H1	0511MI213D38	RAMTEERTH BANKHEDE	MI	A COMPREHENSIVE STUDY OF FLAME SAFETY LAMP WITH ITS LIMITATION	PROF. RAMESH RAM
	0511MI213D29	MOHIT KUMAR	MI		
	0511MI213D22	GULSHAN KUMAR	MI		
	0511MI213D52	SUMIT RATHORE	MI		
I1	0511MI213D43	S. KUMAR SHAH	MI	EFFECT OF PEAK PARTIAL VELOCITY INDUCED BY BLASTING IN DRAGLINE BENCH	PROF. ARCHIT BAGHEL
	0511MI213D49	SHUBHAM KUMAR JAWRE	MI		
	0511MI213D51	SOURAV SINHA	MI		
	0511MI213D55	TARUNENDRA SEKHAR	MI		
J1	0511MI213D11	AMANRAJ TIWARI	MI	A CASE STUDY OF CHANSALA MINING DISASTER	PROF. MANOJ PAGARE
	0511MI213D02	ABHISHEK KUMAR TIWARI	MI		

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PROJECT WORK



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CERTIFICATE

This is to certify that the work embodied in this dissertation entitled “**Soil Stabilization by using Industrial waste**” being submitted by **AYUSH PANDEY (0511CE213D05), HOMENDRA (0511CE213D07), LALIT JAMBHARE (0511CE213D08), MD AFJAL ANSARI (0511CE213D10), MD KAIF AKRAM (0511CE213D11)** in partial fulfillment of the requirement for the award of “**Bachelor of Technology in Civil Engineering**” to Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out under our supervision and guidance in the Department of Civil Engineering, **NRI Institute of Research and Technology, Bhopal (M.P.)**.

Guided by

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Department of Civil Engineering NIRT,
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Approved by

**(Prof. Sangharsh Chaudhary)
Head of Civil Engineering Department
NIRT, Bhopal**

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CERTIFICATE OF APPROVAL

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(Internal Examiner)

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Name:

Name:

Designation:

Designation:

Institute:

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Date:



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DECLARATION

I hereby declare that the work, which is being presented in this Major Project entitled “**Design Soil Stabilization by using Industrial waste**”, for partial fulfillment of the requirement for the award of degree of **Bachelor of Technology** submitted in the Department of **Civil Engineering, NRI Institute of Research & Technology** in the authentic record of my own work carried under the guidance of **Prof. Manjula Singh**. I have not submitted the matter in this report for award of any other degree.

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ACKNOWLEDGEMENT

With due respect, I express my deep sense of gratitude to my respected and learned guide **Prof. Manjula Singh, Assitant Professor , Department of Civil Engineering, NIRT, Bhopal (M.P.)**, for his valuable help and guidance. I am thankful to him for the encouragement he has given to me in completing this Project work.

I am also grateful to **Prof. Sangharsh Chaudhary, Assit. Professor , Department of Civil Engineering, NIRT, Bhopal (M.P.)** and **Dr. P.K.Sharma, Principal, NIRT, Bhopal (M.P.)**, for permitting me to utilize all the necessary facilities of the college.

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ABSTRACT

Nowadays, the technological development and the increasing rate at which the minerals are continuously transformed into industrial products result in environmental aggression and waste generation affecting public health. Therefore, many countries have still been working on how to reuse the waste materials. So that it causes fewer hazards to environment disposal of brick kiln dust is very difficult and poses an environmental threat. To overcome this problem, research is being carried out in different parts of the world to find out economical and efficient ways and means of using brick kiln dust in various applications like soil stabilization, brick production, waste product stabilization and agriculture etc....



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CONCLUSION

By replacing BKD with soil of about 30% , compaction characteristics of mix enhanced by 2.15 % and 1.87 % enhancement in compaction characteristics by 40% replacement. Where as there is a fall in compaction characteristics when half of the soil mass replaced With bkd (50: 50).

A compressive strength of 3.1N/mm² was achieved for 70:30 soil +bkd mixed which is Nearly equal to that of a third class standard burnt clay brick 3.5N/mm².



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CERTIFICATE

This is to certify that the work embodied in this dissertation entitled “**DESIGN OF EARTHQUAKE RESISTANT BUILDING**” being submitted by **NAVED MUSHARRAF (0511CE213D14), PRAVIN KUMAR RAHI (0511CE213D16), SHUBHAM (0511CE213D24), VINOD KUMAR JAYSWAL (0511CE213D27)** in partial fulfillment of the requirement for the award of “**Bachelor of Technology in Civil Engineering**” to Rajiv Gandhi Pradyogiki Vishwavidhyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out under our supervision and guidance in the Department of Civil Engineering, **NRI Institute of Research and Technology, Bhopal (M.P.)**

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ABSTRACT

In India, multi-storied buildings are usually constructed due to high cost and scarcity of land. In order to utilize maximum land area, builders and architects generally propose asymmetrical plan configurations. These asymmetrical plan buildings, which are constructed in seismic prone areas, are likely to be damaged during earthquake. Earthquake is a natural phenomenon which can generate the most destructive forces on structures. Buildings should be made safe for lives by proper design and detailing of structural members in order to have a ductile form of failure. The concept of earthquake resistant design is that the building should be designed to resist the forces, which arises due to Design Basis Earthquake, with only minor damages and the forces, which arises due to Maximum Considered Earthquake, with some accepted structural damages but no collapse. This project report comprises of seismic analysis and design of an eight-storied R.C. building with asymmetrical plan. The building is modelled as a 3D space frame with six degrees of freedom at each node using the software STAAD PRO V8I v 14.2.4. Building is analyzed using Response Spectrum method. The Response Spectra as per IS 1893 (Part 1): 2002 for rocky or hard soil is used.



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CONCLUSION

The earthquake resistant residential building is the topic of our project. We took this topic for our project because earthquake destroy the buildings, money as well as life too. The main motive is to design the earthquake resistant building to save the peoples life as well as wealth. As we know the last earthquake took in Nepal, by which several lives was harm and lots of money destroyed. We designed the earthquake residential building so the people can feel safe and the money saves as well. Our building is safe and will not harm if the earthquake take place. We used many techniques by fighting with earthquake waves.



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FUTURE SCOPE

The Provisions and the building codes and consensus standards based on its recommendations are technical documents used primarily by the professionals who design and construct buildings and other structures. Understanding the basis for the seismic regulations in the nation's codes and standards is nevertheless important to others outside the technical community including elected officials, decision-makers in the insurance and financial communities, and individual building or business owners and other concerned citizens. This document is intended to provide these interested individuals with a readily understandable explanation of the intent and requirements of seismic design in general and the Provisions in particular. We wishes to express its deepest gratitude for the significant efforts of the over 200 volunteer experts. Americans unfortunate enough to experience the earthquakes that will inevitably occur in the future will owe much, perhaps even their lives, to the contributions and dedication of these individuals. Without the expertise and efforts of these men and women, this document and all it represents with respect to earthquake risk mitigation would not have been possible. As we know the seismic area is large enough that is why it effects will be large. Only the earthquake safety will save the lives from seismisn waves. The scope of seismic design buildings will be increased.



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“ELECTRIC TWO WHEELER”

A

Synopsis

Submitted in partial fulfilment of the requirement for the award of Degree of

B.Tech

In

ELECTRICAL ENGINEERING

(Batch 2020-23)



Submitted to

RAJIV GANDHI PROUDYOGIKI VISHWA VIDHYALAYA, BHOPAL (M.P.)

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CERTIFICATE

This is to certify that the work embodied in this Major Project entitled “**ELECTRIC TWO WHEELER**” being submitted by ADITYA HANSARI: - 0511EE201001
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DECLARATION

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a student of “B.Tech in Electrical Engineering”’ session: 2020-24, NRI Institute of Research & Technology, Bhopal (M. P.), hereby declare that the work presented in this dissertation entitled “ELECTRIC TWO WHEELER” is the outcome of my own bonafide work and is correct to the best of my knowledge and this work has been undertaken taking care of Engineering Ethics. It contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Date... /... /...



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ABSTRACT

The rapid growth in the transportation sector consumes a lot of fuel which increases pollution and global warming. The main objective of this project is to promote clean and energy-efficient vehicles. This project is intended to develop an Electric Bike which runs on the battery thereby providing voltage to the motor. The bike uses a regenerative braking mechanism to recharge the battery. The Electric bike consists of the following components: BLDC (Brush Less Direct Current) motor, Frame, Platform, Battery, Drive, etc. Electric Bike makes use of Electric energy as the primary source. This Electric Bike uses Lithium-ion and lead acid rechargeable batteries whose rate of self-discharge is quite low. They have a greater energy density and will last longer than other batteries. The BLDC motor is having 1000 watt capacity with a maximum of 3000rpm. The Frame is made up of M.S. along with some additional lightweight components. The frame is built to sustain the weight of the person driving the unit, the weight of the load to be conveyed. The main aspect of building this E-bike is that it is user friendly, economical, and relatively cheap.

Electric scooters are plug-in electric vehicles with two wheels that can be recharged from any external source of electricity, and the electricity is stored in a rechargeable battery, which provides power to one or more electric motors to attain movement. India is the second largest producer and manufacturer of two-wheelers in the world. It stands next to Japan and China in terms of the number of two-wheelers produced and domestic sales. Indian two wheeler industry has got spectacular growth in the last few years. The face of auto industry that was redefined with the invention of fuel-efficient technology is all set to see dawn of a new era in two wheeler industry. It's not petrol or diesel or any other fuel, but it is electricity that has initiated a revolution in two-wheeler industry in India. . Indian two-wheeler industry has embraced the new concept of Electric Bikes and Scooters that are very popular mode of personal transporting the developed countries like America, Japan and China. So the electrically charged bikes or scooters have very bright future in area of personal transportation.



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Key Words: Electric vehicles (EVs), Battery, Brushless DC Motor (BLDC), DC-DC converters, Permanent Magnet (PM), Hub Motor, Miniature Circuit Breaker (MCB), Controller.



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CONCLUSION

Now a days, utilization of fuel vehicles are increased rapidly which result into more air pollution. To control this, utilization of EV is must because it's several advantages like electric scooter is an eco-friendly product, It is more suitable for city as it can avoid the emission of harmful gases and thereby it can reduce the atmospheric pollution. Due to frequent increase in fuel prices, the electrically charged vehicle seen to be the cheapest one compared to the traditional vehicle. E-scooters are more suitable for rural areas where the numbers of petrol bunks are not adequate, so that the rural people can charge the vehicle with the help of electricity. To understanding the EV technology, this study helps to provide outline of EV (Scooter) and there various components. In this project EV contained a lead acid battery of capacity 12v,28Ah pack of four batteries connected in series to make 48v will charge within 5 hour using charger having capacity 48v,5A. Thus EV can be charge up to 1150 to 1200wh using this charger, which will run up to 50 km in single charge with a appropriate speed of 35 to 40 kmph.