

DEPARTMENT OF STUDENTS' DEVELOPMENT

14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20 (Selection Round)

Details of Research Projects Selected for 14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20 (Final Round)

Name of the Zone: All Engineering Colleges of all Districts

| Sr. No. | Category | Level | Title of the Research Project | Name of the College | Name of the Participant/s | Class and Roll No. of the Participant/s |
|------------|--------------------------------------|-------|--|---|------------------------------------|--|
| | | | | Bharati | Padhye Pritam Santosh | B.E/4238 |
| 1 | Commerce, Management and Law | UG | Three Step Security Provider Application (SPA) | Vidyapeeth College of Engineering, | Walde Abhinav Pramod | B.E/4270 |
| | | | | Kharghar | Varade Shruti Shailendra | B.E/4267 |
| | Commerce, 2 Management and Law | | A Hybrid Street | | Dhobale Chirag | BE CIVIL /9 |
| | | UG | Lamp-An Innovative Solution for Management of Environmental Issues and Social Laws | Pillais Hoc College of Engineering and Technology, Rasayani | Patil Akshay Kumar | BE MECH /17 |
| 2 | | | | | Nautiyal Adarsh S | BE EXTC/16 |
| | | | | | Pashte Sanskruti | BE CIVIL /42 |
| | | UG | Design of a HVAC system for an entire 5-star Hotel. | Saraswati College of Engineering, Kharghar | Ram Deepakkumar Shriniwas | BE-MECH/35 |
| 3 | Commerce, Management | | | | Shaikh Sadhaquat Nasearuddin | BE-MECH/43 |
| | and Law | | | | Patil Sayali Machindra | BE-MCH/20 |
| | | | | | Narkhede Bhagyashri Kishor | BE-MECH/6 |



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|------------|-------------------------|--------------|---|--|-------------------------------------|--|
| 4 | Pure Sciences | UG | Vacuum Bio- Toilets | Vishwaniketan Institute of Management Enterpreneurship and Engineering | Dhembre Prathmesh Appasaheb | TE/23 |
| | Sciences | | | Technology, Kumbhivali, Khalapur | Chaudhary Shefali Hemant | TE/06 |
| | Agriculture | | Vegetable Price | Gharda Institute | Shukla Gaurav kumar Sarvendra | BE COMPUTE/43 |
| 5 | and Animal Husbandry | nd Animal UG | Prediction using Machine Learning | of Technology, Lavel, Khed | Mahajan Omkar Sanjay | BE COMPUTE/25 |
| | | | | | Shirke Parth Pravin | BE COMPUTE/43 |
| | | | Effect of mix ratios and sizes of | Saraswati College of Engineering, Kharghar | Shelar Vishal Ganesh | BE/60 |
| 6 | Agriculture | | | | Gharat Rahul Kamalakar | BE/17 |
| 0 | and Animal Husbandry | UG | palm kernel shells on asphalt concrete. | | Gondhali Rohit Ramesh | BE/20 |
| | | | | | Dhirde Mayur Maruti | BE/13 |
| | | | | | poojary Karan A. | B.E.INSTRU/07 |
| | Agriculture | | Sensor analytics based climate | Vidyavardhini College of | Panchal Deep A | B.E.INSTRU/02 |
| 7 | and Animal Husbandry | al UG | resilient agriculture platform | Engineering and Technology, Vasai | Shetty Pratyush A | B.E. INSTR/33 |
| | | | | | Powale Madhurima U. | B.E.INSTRU/37 |



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| | | | | Vishwaniketan Institute of | Chaudhary Himanshu Pralhad | TE/12 |
| 8 | Agriculture and Animal | UG | SMART POULTRY | Management Enterpreneurship | Bagul Harshal Eknath | TE/03 |
| | Husbandry | | FARM | and Engineering Technology, Kumbhivali, | Mali Niraj Jijabrao | TE/51 |
| | | | | Khalapur | Waghe Tanmay Anil | TE/45 |
| | | | Detection of Insect Breeding Zones and Spraying Insecticides using Drone | | Mhatre Shubham Suresh | BEET/54 |
| 9 | Engineering and Technology | UG | | Bharati Vidyapeeth College of Engineering, Kharghar | Damle Ketan Sameer | BEET/17 |
| | | | | | Mishra Rupesh Kamalkant | BEET/56 |
| | | | | | Gurao Krutika Kishor | BEET/28 |
| | | nd UG | Generation of brain model from MRI scan data to assist in brain | Don Bosco Institute Of Technology, Kurla | Kulkarni Neeraj Nithin | BE/27 |
| 10 | Engineering and Technology | | | | Kashyap Arunkumar Prakashchandra | BE/22 |
| | | | surgery | | Patil Siddhi Avinash | BE /39 |
| | Engineering | | Fabrication and In- vitro testing of Biosynthetic skin for burn wounds | Dwarkadas J. Sanghvi College of Engineering, Vile Parle | Deshmukh Madhura Venkatesh | B.E./6001316000 |
| 11 | Engineering and Technology | | | | Teli Dhwani Rajesh | B.E./6001316002 |
| | | | | | Vichare Prashali Santosh | B.E./6001316002 |



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| 12 | Engineering and | | Hydrogen Generation through Water | Gharda Institute of Technology, | Kalekar Sunny Ekanath | BE CHEMICA/28 |
| 12 | Technology | 00 | Splitting Reaction Utilizing the Waste Aluminum | Lavel, Khed | Jadhav Gaurav Ramesh | BE CHEMICA/24 |
| 13 | Engineering and Technology | UG | A NOVEL ALTERNATIVE FOR THE ARRANGEMENT OF SHEAR REQUIREMENT IN FLAT SLAB | M.H. Saboo Siddik College of Engineering, Byculla | Quraishi Maaz Aslam | CIVIL ENGI/2218070 |
| | Engineering and Technology | d UG | Installation and testing of electronic module for increasing power and reducing emission with use of motorcycle chassis dynamometer | Pillais Hoc College of Engineering and Technology, Rasayani | Wable Shubham Kantilal | BE AUTO/57 |
| 14 | | | | | Bhaleghare Ganesh Madhukar | BE AUTO/1 |
| | | | | | Naik Nishant Nitin | BE AUTO/35 |
| | | | | | Talla Dishnak Anil | BE AUTO/54 |
| 15 | Engineering and | UG | Design of Solid Waste | Rajendra Mane College of Engineering and | Dongare Shreyas Santosh | B.E MECHAN/18 |
| | Technology | | Management Plant | Technology, Ambav, Devrukh | Anerao Suyog Kashinath | B.E MECHAN/03 |
| | | | Investigation of suitability of tool profile for | Daiiy Candhi | Masurkar Ishan Mahesh | BE MECHANI/717 |
| 16 | Engineering and Technology | nd UG | enhanced tensile strength of the weld in case of friction stir welding of Thermoplastics | Rajiv Gandhi Institute of Technology, Andheri | Jadhav Varun Rajendra | BE MECHANI/766 |
| | | | | | Jagtap Rutuj Rajendra | BE MECHANI/767 |



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| | | | | | Vora Jaykumar Hasmukhbhai | BE/15IN1107 |
| 17 | Engineering and | UG | Intrusion Tackling | Ramrao Adik Institute of | Phulpagar Hemant Dropad | BE/14IN1019 |
| 17 | Technology | 00 | System | Technology, Nerul | Patil Sahil Naresh | B.E./15IN1065 |
| | | | | | Barman Indranil anil | BE/14IN1097 |
| | | | | | Tharali Sagar Ravikant | BE/16EE1019 |
| 18 | Engineering and Technology | nd UG | Violence Detection using Embedded GPU | Ramrao Adik Institute of Technology, Nerul | Wakchaure Gaurav Sudhakar | BE/16EE1004 |
| | | | | | Shirsat Durvesh Suryakant | BE/16EE1005 |
| | | UG | Defense mechanism using Image processing | Ramrao Adik Institute of Technology, Nerul | Jadhav Jagrut Jaideep | BE/16EE1007 |
| | Engineering | | | | Chandak Rahul Satish | BE/16EE1043 |
| 19 | and Technology | | | | Mohitosh Chaudhari Jagdish | BE/16EE1011 |
| | | | | | Bondre Snehal Suresh | B.E./16EE1065 |
| | | | | | Ardalkar Gajanan maruti | BE/03 |
| 20 | Engineering and | UG | Cloth Bag Vending Machine | Saraswati College of Engineering, Kharghar | Gowda Ramkrishna Devraj | BE/29 |
| | Technology | | | | Gupta Sandhya ramesh | BE/30 |
| | | | | | Jain Ruchi pravin | BE/34 |



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| | | | | | Kekatpure Vishrut Pradeep | BE-MECH/55 |
| 21 | Engineering and | UG | Application of evaporation cooling to improve | Saraswati College of | Kulkarni Abhishek Uday | BE-MECH/34 |
| 21 | Technology | 00 | the productivity in soilless farming with zero fertilizer | Engineering, Kharghar | Shimpi Ketan Rajendra | BE-MCH/64 |
| | | | | | Mahadik Prajakta Satish | BE-MECH/36 |
| | | | | | acharekar Harsh vilas | BE/1 |
| | Engineering and Technology | UG | Fabrication and Testing of Tiles Made from Plastic Waste | Saraswati College of Engineering, Kharghar | dalvi Hemant krishna | BE/12 |
| 22 | | | | | chougule Neha prakash | BE/11 |
| | | | | | chavan Krushnali limchand | BE/9 |
| | | | | Shah and Anchor | Kadam Rohan Sunil | BE/47 |
| | Engineering | | | | Jain Kavish Dilip | BE/25 |
| 23 | Engineering and Technology | UG | IOT based Parcel Drop Box System | Kutchhi Engineering College, | Lokare Kiran Krishna | BE/28 |
| | | | | Chembur | Shinde Krushnakant Sharad | BE/46 |
| 24 | Engineering | nd UG | Automated Solar- Powered Surveillance Rover | Shivajirao S. Jondhale College of Engineering, Dombivli | Bonde Riddhesh Jeevan | BE/8 |
| 24 | Technology | | using Recycled Lithium Cells | | Rathi Manmohan Surendra | TE/29 |



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| | Engineering | | CleanSweep – The | SIES Graduate School of | Marathervar Rahul Ganesh paneer selvam | THIRD YEAR/117A3026 |
| 25 | and Technology | UG | cleaning bot | Technology, Nerul | Pawar Avantika Anand | THIRD YEAR/117A3038 |
| | | | | | Kannan Nithya . | THIRD YEAR/117A3035 |
| | | | | | Krishnamoorthy Venkatraman . | BE MECHANI/116A6060 |
| | Engineering | | Solar Powered | SIES Graduate School of | Suvarna Prajwal Bhaskar | BE MECHANI/116A6057 |
| 26 | and Technology | | Atmospheric Water Generator | Technology, Nerul | Poojary Deekshit Doddanna | BE MECHANI/116A6040 |
| | | | | | Radhakrishnan Vaisakh . | BE MECHANI/116A6059 |
| | | UG | Suspect face generation using GAN | St. Francis Institute of Technology, Borivali | Jalan Harsh Jaykumar | B E CMPN/60 |
| 27 | Engineering and | | | | Dsouza Sunny Prashant | BE CMPN/59 |
| 21 | Technology | | | | Maurya Gautam Virendra | BE CMPN/67 |
| | | | | | Corda Canute Savio | BE CMPN/58 |
| 28 | Engineering and | UG | Nanoconcrete | Thakur College of Engineering | Todmal Shreya Atul | SE CIVIL /28 |
| 20 | Technology | 00 | Nanoconcrete | and Technology, Kandivali | Raut Sayli Prashant | SE CIVIL/05 |
| | | UG | MULTI AGRO MECHANISM | Thakur College | Pal Vikrant Sunder | BE MECHANI/72 |
| 29 | Engineering and Technology | | | of Engineering and Technology, Kandivali | Pawar Kunal Shashikant | BE MECHANI/73 |
| | rechnology | | | | Patil Pankaj Prakash | BE MECHANI/65 |



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| | | | | | Patel Kushal Chandubhai | B.E. CIVIL/31 |
| 30 | Engineering and | UG | Study of Structural Behaviour of Earth Slab Panel | Vidyavardhini College of Engineering and | Uttekar Sandesh H | B.E.CIVIL/48 |
| 50 | Technology | 00 | Confined by GI Wire Mesh For Low Cost Housing. | Technology, Vasai | parmar Abhsihek N. | B.E.CIVIL/30 |
| | | | | | Ghosalkar Shreya S. | B.E. CIVIL/14 |
| 31 | Engineering and Technology | PG | Enhanced brain tumor detection using fractional wavelet transform and artificial neural network | Ramrao Adik Institute of Technology, Nerul | Kaushal Bhakti Surinder mohan | ME/16EC1002 |
| 32 | Engineering and Technology | PG | Image Inpainting With Contextual Attention and Partial Convolution | Ramrao Adik Institute of Technology, Nerul | Mohite Tejaswini Adesh | PG/15IE1001 |
| 33 | Engineering and Technology | PG | Performance Evaluation of ASR for Isolated words in Sindhi Language | Thakur College of Engineering and Technology, Kandivali | Dharmani Aarti Hiranand | M.E. EXTC/01 |
| 34 | Engineering and Technology | PPG | Feature Selection for Pre-Term Child Birth | Ramrao Adik Institute of Technology, Nerul | Deshpande Himani Saurabh | PH.D./16PDCE02 |
| 35 | Engineering and Technology | PPG | Development of Real Time Encrypted Trust based Dolphin Glowworm Optimization Routing Algorithm for Mobile Adhoc Network | Ramrao Adik Institute of Technology, Nerul | Mukhedkar Moresh Madhukar | PHD/12PDEE003 |



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|------------|----------------------------------|-------|--|--|---------------------------------------|--|
| 36 | Engineering and Technology | PPG | Comparative Evaluation of Dense Graded Bituminous Concrete with Different Nominal Maximum Aggregate Sizes | Thakur College of Engineering and Technology, Kandivali | Bhana Pritesh Surendra | CIVIL ENGG/NA |
| 37 | Engineering and Technology | PPG | Investigating the need of ArogyaYojana in Saiwan, District Palghar, State Maharashtra. A step towards Ayushman Bharat | Thakur College of Engineering and Technology, Kandivali | Pachori Sunita Shalabh | CHEMISTRY/0 |
| 38 | Engineering and Technology | PPG | Judiciary System using Blockchain | Thakur College of Engineering and Technology, Kandivali | Khairwal Neerajkumari Surajbhan | PHD/04 |
| 39 | Engineering and Technology | тн | Designing of Secured Routing Protocol in IoT | Dwarkadas J. Sanghvi College of Engineering, Vile Parle | Gawade Aruna Umesh | PHD/19210047 |
| 40 | Engineering and Technology | тн | Investigation of Surface Integrity Aspects in Milling Operation on Nickel Based Super Alloy | Dwarkadas J. Sanghvi College of Engineering, Vile Parle | Rajguru Ramesh Ramling | PHD/6001414000 |
| 41 | Engineering and Technology | тн | Prosody Analysis for Emotions in Marathi Language | Lokmanya Tilak College of Engineering, Kopar Khairane | Harhare Trupti Kamlesh | PHD/361503 |
| 42 | Engineering and Technology | тн | Enhancing The Capability of Network Protocol for Forensic Investigation and Evidence Collection | Lokmanya Tilak College of Engineering, Kopar Khairane | Patil Rachana Yogesh | PH.D/1 |



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|------------|----------------------------------|-------|--|--|------------------------------|--|
| 43 | Engineering and Technology | тн | Parametric Investigation for Sustainable Water Supply Network, Quality and Security Management with Application of GIS and Remote Sensing | Pillais Hoc College of Engineering and Technology, Rasayani | Nagarajan Karthik | PHD/3 |
| 44 | Engineering and Technology | тн | Reliable Message Dissemination for Road Safety | Ramrao Adik Institute of Technology, Nerul | Padiya Puja Yogesh | PH.D./16PDCE01 |
| 45 | Engineering and Technology | тн | Time Interval Measurement With High Resolution Over Wide Dynamic Range For Nuclear Timing Spectroscopy Applications | Vivekanand Education Society's Institute of Technology, Chembur | Chavan Kanchan Vivek | PH.D IN EL/11/11-12-2 |
| 46 | Engineering and Technology | тн | New Hardware Methods for Extraction of Low Level Differential Signals over Wide Bandwidth With High CMRR and S/N Ratio | Vivekanand Education Society's Institute of Technology, Chembur | Warke Nilima Vasant | PH.D IN EL/01 |



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| | | | | | Yadav Shivraj Bhalchandra | BE/71 |
| | Medicine | | SMART SANITARY | Bharati Vidyapeeth | Shetty Anoop Ramanand | BE/49 |
| 47 | and Pharmacy | UG | NAPKIN DISPOSAL MACHINE | College of Engineering, Kharghar | Shirsolkar Prajesh Suryakant | BE/52 |
| | | | | | Narayane Shreyash Kishorkumar | BE/27 |
| | Medicine and Pharmacy | UG | Detection of gender using digital forensic | Bharati Vidyapeeth College of Engineering, Kharghar | Pandit Shivali Chuni lal susheela dhar | BE-IT/36 |
| 48 | | | | | Patil Harshada Vishwas | BE-IT/37 |
| | | | | | Rout Aishwarinandini Bishnu | BE/44 |
| | Medicine | | Detection of Malaria using | K. J. Somaiya Institute of | Thakkar Harsh . | BE/56 |
| 49 | and Pharmacy | UG | | Engineering and Information | Thakker Parth . | BE/45 |
| | Filannacy | | Machine Learning | Technology, Sion | Pede Preetish . | BE/37 |
| | | | EXPRIMENTAL | | Talware Tushar Narendra | BE-MECH/58 |
| | Medicine | | INVESTIGATION ON MECHANICAL | Saraswati | Sawant Akshay Baburao | BE-MECH/59 |
| 50 | and Pharmacy | nd UG | FAILURE OF BIO-IMPLANT MATERIAL FOR ORTHOPAEDIC APPLICATIONS | College of Engineering, Kharghar | Jambhale Harshada Nandkumar | BE-MECH/45 |
| | | | | | Teli kishan Bhimraj | BE-MECH/61 |



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| | | | | | pawar Prathmesh Prakash | B.E. MECHA/11 |
| 51 | Medicine and | UG | Design and manufacturing of a | Vidyavardhini College of Engineering and | Suthar Harshal Vhshnuprasad | B.E. MECHA/16 |
| 51 | Pharmacy | 00 | lower limb exoskeleton | Technology, Vasai | Pawar Sumit Sahadev | B.E. MECHA/30 |
| | | | | | Prabhu Praseeda rammohan | B.E. MECHA/47 |
| | Medicine and Pharmacy | UG | Skin Disease Prediction using Machine Learning | Vidyavardhini College of Engineering and Technology, Vasai | Pise Omkar Narayan | B.E. COMPU/163107125 |
| 52 | | | | | Rao Kritika Sujay | B.E.COMPUT/163201173 |
| | | | | | Yelkar Pooja Suresh | B.E. COMPU/163205135 |
| | | | | | Bendre Aniket Pratap | TE/02 |
| | | | | Vishwaniketan Institute of | Ghanvat Amit Maruti | TE/16 |
| 53 | Medicine and Pharmacy | UG | V-Health + | Management Enterpreneurship and Engineering Technology, Kumbhivali, Khalapur | Todankar Vipresh Digambar | TE/62 |
| | | | | | Dahimbekar Tejal Anil | TE/07 |
| | | | | | Mali Harshali Prabhakar | TE/29 |



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> Dr. Sunil Patil I/c Director, Department of Students' Development, University of Mumbai