



ANVESHAN (WZSRC) 2017



ANVESHAN 2017

REPORT

ON

WEST ZONE

STUDENTS RESEARCH CONVENTION

Organized by



ASSOCIATION OF INDIAN UNIVERSITIES, New Delhi

Hosted by



NIMS UNIVERSITY RAJASTHAN, Jaipur

7th and 8th March 2017



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1. Executive Summary

Research follows development and vice versa and thereby it has always been at the core of academics in Higher Education Institutions. Top ranked universities of the world have industry income through research and consultancies and advocate fellow universities to render services having best practices in teaching, training, research and dissemination. Such practices are less noticed among Indian Higher Education Institutions attributed to a basket of challenges and issues—widened gap between emerging needs of society and competencies gained at individual level, scarcity of experts for providing theory based knowledge and hands on experience based competencies, and non-availability of public funds up to desired level. Eventually, cost of innovative researches is shouldered by students and research scholars at individual level, and at institutional level at large. Research, as a concept is introduced and at UG level, and reared through Post Graduate and Doctoral stage especially in universities. It has been observed that a majority of student population concentrate more on employability (choosing a career path with handsome salary within a short span of time), a few of remaining student population rely heavily on 21st century competencies, taking up research as a career becomes cups of tea for a limited number of students and those who are determined to excel through research get well placed in universities, state level and national research organizations and non-governmental organizations. Since entrepreneurial activities and entrepreneurial ecosystem are need of the hour, institutions should provide budding researchers sustainable pathways to career through research by “catching talents young”. Therefore, identification and promotion of young talents in research has become critical for institutions of higher learning and the Association of Indian Universities has become legendary in rearing talents of budding researchers across states by organizing Student Research Convention(SRC) at zonal and national level annually, popular amongst Indian academe as “**Anveshan** –a platform to the emerging researchers in universities to express their ideas and creativity leading to innovative research initiatives. In the current academic session (2016-17) Chitkara University (Punjab) hosted North zone SRC while Tumkur University (Karnataka) and Veer Bahadur Singh Purvanchal University (Uttar Pradesh) hosted South zone and East zone SRCs respectively. Dr. C. V. Raman University (Chhattisgarh) hosted Central zone while Nims University Rajasthan was nominated to host two days convention by inviting nominations from AIU member universities and higher education institutions of Goa, Gujarat, Maharashtra and Rajasthan. The two day event was successfully organized and witnessed more than 135 student participations with 109 innovative projects. Projects showcased in the event are expected to have significant impact on society and are exemplary. Highest number of nominations was drawn from Maharashtra followed by Gujarat, Rajasthan and Goa. Out of best 16 innovative projects being selected for participation at national level

SRC, thirteen are from Maharashtra; two are from Gujarat and one from Rajasthan. A team of 27 resource person and subject specialists were engaged in evaluation of poster and oral presentations that were delivered by student researchers/research scholars. Showcased projects exhibited an interesting trend— “research and scientific insights are significantly aligned with changing needs of our society” thus probing innovations as socially relevant.

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I am thankful to Board of Management of Nims University chaired by Chancellor Prof. (Dr.) Balvir S Tomar, Secretary General Prof.(Dr.) Furqan Qamar, Prof. Amarendra Pani and Dr. Usha Rai of AIU, New Delhi; and resource person and subject specialists especially Prof. AVS Madnawat(Uni. of Rajasthan, Jaipur), Prof. Ravi Kant Gunthey (JNVU, Jodhpur), Prof. Akbar Husain (AMU, Aligarh), Prof. Vinod Kumar (HAU, Hissar), Prof. K. P. Singh (HAU), Prof. Meenakshi Mathur(JNVU) Prof. S.C. Joshi (Uni. of Rajasthan), Prof. K. S. Gupta(Univ. of Rajasthan), Prof. D. H. Patel, Prof. D. K. Soni (Ganpat Univ, Gujarat), Dr. Siddhivinayak Barve (Univ. of Mumbai), and Professor R. K. Hegadi(Sholapur Univ., Maharashtra). Success of this Convention owes to members of organizing committee, fellow academia and volunteer students at Nims University. I shall be failing in my duties if I don't acknowledge immense support rendered by Dr. Sandeep Tripathi, Dr. Sunil K. Pandey, Prof. Renu Sharma, Dr. D. S. Chauhan, Dr. R. S. Verma, Mr. Ashish Mathur, Ms. Sushila Chahar, Mr. Sudhanshu Mishra, and Mr. Varun Jain, Web Designer and Administrator who created connectivity between Host University and participating students drawn from various universities of west zone. Thanks to Ads Manger team at Face book for promoting this convention in virtual mode with an audience of 9,628+. Efforts made by team members of channel "News India" is commendable in terms of reaching at audience virtually during and post convention stage. Efforts made by Shri Suresh Lohar, Shri Vishnu Tiwari and Shri Ankit Saxena are acknowledged due to their support in terms of typing and desktop publish jobs.

Sanjaya Das

Prof.(Dr.) S. K. Das
Coordinator- AIU's WZSRC 2017
Dean-Academics
Nims University Rajasthan

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2. Brief outline of the AIU's Annual Student Research Convention

(Excerpts from the AIU's Mongraph Anveshan- Student Research Convention)

In order for inculcating research culture in our higher education institutions, the Research Division of Association of Indian Universities has taken a pioneering initiative to organize Student Research Conventions for the aspiring researchers throughout the country. These Conventions aim at identifying the young and rising talents who would be promoted through proper encouragement and incentives. Also an attempt shall be made to commercialize their research projects with industrial collaboration. The endeavour may accelerate scientific research and innovation and their application towards community development percolating to the grass root level. Anveshan: The Student Research Convention was applauded across the country for providing an innovative platform for students and generating a great zeal of enthusiasm among the young and emerging breed of researchers in the country. In toto, the initiative is an attempt to inculcate and strengthen the culture of research in the universities and other institutions of Higher Learning.

- To identify young talents with research aptitude and interest to take up research as career option.
- To promote the talent in research throughout the country.
- To nurture the talent through specialized training and education in some of the nationally and internationally reputed premier institutions of higher learning in the country.
- To augment financial and physical resources through collaboration with different sponsors for supporting education and training of the young researchers.
- To provide proper incentives to enhance the research skill of potential students.
- To initiate an intensive research culture in the universities and institutions.

The areas/fields in which **(Objective and Result Oriented Projects)** either at Individual or Group level) are invited:

Agriculture

Basic Sciences

Engineering & Technology

Health Sciences and Allied Subjects, Pharmacy, Nutrition

Social Sciences, Humanities, Commerce and Law



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The Conventions are held in three phases—

(i) In the First Phase, all universities in the country are requested to organize an exhibition of research projects at University Level in which students from Affiliated/Constituent Colleges, Research Institutions and University Teaching Departments are invited to participate and contest. The exhibited projects are scrutinized by a team of experts of their respective areas and the best five projects are selected for participation in the second phase.

(ii) In the Second Phase, the Convention is held at Zonal Levels in five Zones viz. East, West, North, South and Central where the winners of first phase participate. The zonal distribution of universities is displayed on AIU Website – www.aiuweb.org. In each Zone, one university is identified on the basis of certain criteria and the responsibility to conduct the Convention is assigned to it. From each zone, 15 best projects, three in each category are scrutinized on the basis of laid down assessment criteria for giving entry to compete at the National Level.

(iii) In the Third Phase, the Convention is held at National Level. The Association of Indian Universities invites the successful projects, selected through the zonal competition, for the national level competition. A total of 75 selected projects are displayed for assessment at the national level out of which 15 projects are finally selected for awards.

• **The duration of the Convention is two to three days each at Zonal and National Level.**

Each university is allowed to send a maximum number of five projects for the Zonal Level Student Research Convention preferably one each from each category. In case, the universities/ institutes do not offer courses/ programmes in all the categories/ areas/fields mentioned above, they can send total five projects from whichever category/area/field they have from amongst the above specified categories/ areas/fields. For Example, Agricultural Universities may send five projects from Agriculture Category itself.

(2)



3. Host University- Nims University Rajasthan (NUR) – Brief Profile

Synchronous with the vision of building a truly innovative higher education system-“World’s Education: Education’s World,” the Nims University Rajasthan stands to create linkages between competency based professional and technical education and employability. The University emphasizes training of students keeping in view the employability and placements in private and public sectors. Along with excellence in academic and professional goals, social sensitization is an integral part of campus life and emphasizes value based learning and social responsibilities. The University has emerged as a centre of modern research and learning; and heading towards a teaching research centre of higher education from health sciences to human sciences, technical training to advance engineering and personnel management to corporate management, architecture, law. Health being the primary, the universities provides adequate health checkups and treatment free of cost to students, family and staff within campus. The university has been providing quality higher education to students of Jammu & Kashmir, Manipur, Meghalaya, Sikkim, Jharkhand and Chattisgarh; besides Rajasthan and adjoining states. In order to provide quality education, the university has accommodated an international school within its campus and our motto has been Swachha and Swastha Bharat (Clean and Healthy Bharat). Community outreach programme of the university has covered up more than 400 + villages in Rajasthan, Madhya Pradesh and adjoining states serving rural communities with free medical check-up and treatments. Preventive and social medicine being fundamental for Healthy Bharat, News India- a channel (owned by Prof. (Dr.) Balvir S. Tomar) has been educating community free of cost for more than an hour a day. NIMS is one of the rarest universities in India that has accommodated highest number of disciplines and has focused trans-disciplinary research & innovations which have eventually ensured holistic development among students/ trainees, faculty, trainer and staff. Keeping the national goal on Skill Development in higher education institute in view, the University organized an International Conference on Pediatric Gastroenterology, Hepatology, Transplant and Nutrition from 11th to 14th February 2016 that witnessed active participation of delegates from more than 100 countries and 6 continents drawn from Allopathic and AYUSH both. Consequently, the university has chalked out a plan of action for skill development in integrated medicine. The Nims University is the only leading Higher Education Institution/ University in India that has taken a historic step towards promotion and popularization of Hindi and Ayurveda by institutionalizing chair in Hindi Language and Literature in the University of Ljubljana and chair in Ayurveda and Indian Medicine in the University of Primorska in Republic of Sloevnia in European Union.



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Quality, efficiency and employment assured/ career oriented educational services is the hall mark of the university being related in following awards:

- 1) Best Private University (2017) conferred upon Nims University Rajasthan by the ASSOCHAM New Delhi.
- 2) The National Institute of Medical Sciences & Research, Nims University has been recognized Best Emerging Medical Institute of the Nation within top 5 Institutes of the Nation conferred by India Today, 30th May, 2016.
- 3) Nims University awarded as Best Private Medical University for the year 2015 by Six Sigma Healthcare Pvt. Ltd., New Delhi.
- 4) National level award “Best University in India for Innovations and Skill Development 2015” was conferred upon the Nims University jointly by Ministry of Labour & Employment, National Skill Development Council, MSME and Govt. of India, adjunct with ASSOCHAM.
- 5) National level award “Best Professional Institute for Skill Development 2015” conferred upon the Nims University jointly by Department of Skill Development and Entrepreneurship, National Skill Development Council, MSME, adjunct with ASSOCHAM.
- 6) Global Environment Award 2015 given to the Nims University for the outstanding Performance to reducing pollution and environment management jointly given by Energy and Environment foundation and Ministry of New and Renewable Energy (MNRE), Govt. of India.
- 7) In recognition of excellence in Research in the Nims University, the CCI Technology Education Excellence Award 2014 was conferred upon the Nims University for Innovative Research jointly by the Consortium of Co-Chairpersons- Industry (CCI), Gujarat Technological University and CMAI Association of India.
- 8) Education Excellence Award 2013 was conferred upon the Nims University for achieving Best Private University in North India by the Time Research and the India News.

In view of our interest and constant endeavour in high impact research and teaching across disciplines, the Association of Indian Universities, New Delhi accorded approval and provided financial grants to Nims University Rajasthan to host Anveshan: Student Research Convention among West Zone Universities on 7th and 8th March 2017 in its sprawling campus located Shobha Nagar in Jaipur.

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4. Proceedings of the Two Days Student Research Convention

The West Zone Student Research Convention held at Nims University Rajasthan (NUR) on 7th March 2017 witnessed more than 170 student participants, and 75 faculty members drawn from 20 universities and 18 affiliated colleges/institutions from the state of Goa, Gujarat, Maharashtra and Rajasthan. The registration process started at 9.00 am in the Rajeshwari Auditorium annexe and continued till Inauguration ceremony. The ceremony commenced with lighting lamp before Maa Saraswati followed by Saraswati Vandana. The ceremonial dais was honoured with Prof.(Dr.) Balvir S. Tomar, Chairman and Chancellor, Nims University as Chief Guest and Dr. Pankaj Singh, Director, Nims University as Guest of Honour and Prof. (Dr.) K. P. Singh, Registrar as Special Guest . The inaugural ceremony that lasted for about an hour dealt with discourses on research and innovations, significance, utility and social acceptance. Dr. Pankaj Singh welcomed participants and appreciated efforts being contributed by each contestant. He highlighted exemplary role played by universities especially in U.K. and U.S.A. in the field of research and expected from students to elevate further and excel with research and innovations. His dealt with famous root (key) words in Japan and China in his lucid explanations on research. Prof.(Dr.) S. K. Das, Dean-Academics(Nims University) and Coordinator of the WZSRC welcomed students and detailed out efforts made by organizing committee in hosting convention. While extending his views on research, Dr. Das reiterated that there are two fundamental purposes for which any piece of research is conducted—extension of existing knowledge and solution to an existing problem in the areas of human interest. He viewed that research is the sixth sense and the third eye (which is invisible) of the scholars and insightful thoughts and innovative ideas matter most in the current era of knowledge economy. Role played by the Information and Communication Technologies especially social media such as Face book and Linked In, in promoting WZSRC was highlighted by the Coordinator. In order to popularise Anveshan through Face book, a campaign on Event: AIU's West Zone Student Research Convention was initiated by the coordinator at the official face book account of the Nims University on 18th January 2017 with a life time budget of Rs. 1960. Within 28 days of promotion on Face book, campaign reached more than 9,628 people and maximum number of participants was in the age bracket of 18-24 years. Highest number of viewers was found to be on 22nd and 23rd February and 1st and 2nd March 2017. There were 138 event responses and campaign cost about Rs 13.36 per event response.



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While analysing gender wise event responses, the coordinator observed that per unit cost for woman viewers was Rs. 19.66 and Rs 12.79 for man viewers. Gender difference in per unit cost on event responses is noticed favouring male than female viewers may be due to social stigma adhered with female as an endangered gender.

Prof. Amarendra Pani, Director, Research Division of AIU (and the Convener of WZSRC) underlined the leading role played by the AIU in nurturing young talents in research and appraised the academia about AIU's annual Student Research Convention. He emphasized on the need for talented brains in research and therefore universities should prioritize identifying and promoting excellent innovations as one of the best practices. Promoting high impact researches in all areas of human endeavour will lead our nation to be rated at par with developed economies and therefore higher education institutions should become ideal place.

The Chief Guest, Prof.(Dr.) Balvir S Tomar, world renowned pediatric gastroenterologist, an alma matter of Harvard University of America and Kings College London cited exemplary insights of Elon Musk, founder of SpaceX and owner of Tesla . The Chancellor ignited young minds with innovative ideas of Elon Musk and his legendary journey to become the world's first private firm to be associated with NASA. The vote of thanks was proposed by Prof. C.R.Verma, Dean, Medicine and Allied Sciences (Nims University) who praised worthy efforts made by the Board of Management led by Prof. Tomar and Dr. Pankaj Singh. While concluding, Dr. Verma laid emphasis on historic effort of Nims University in making the convention a success and expressed his sincere thanks and gratitude to Dr. Usha Rai, Asst Director, Research Division of AIU; Professors and academia including students.

The lunch was arranged in the nearby lawn of Rajeshwari Auditorium and the student participants were intimated to display their posters in the stalls being allocated to them after taking their lunch. The poster presentations were arranged in the C.V. Raman Block. There were 10 rooms and four wide corridors being earmarked for display of posters on various disciplines. Rules and regulations related to evaluation were explained to Resource person cum Subject Specialists by the convener. The chairperson of each category was entrusted with responsibilities of orienting concerned discipline students about evaluation procedure to be adopted during poster presentation. The subject experts were requested to short list candidates for oral presentations (scheduled on the next day) with the help of laid down criteria of the AIU. Poster presentation lasted for about 3 hours and the list of short listed candidates were displayed on the university website.

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The evening at Nims University was set to open up cultural events in the auditorium and almost all participants were presented in the auditorium. Inland and international students exhibited their socializing and cultural skills by presenting a basket of dances in front of the audience. Cultural programme was attended by student participants, faculty members, officers of the AIU and the Nims University. The participants were served dinner and short listed candidates were informed to report at respective Lecture theatres at CV Raman Block on next day at 9.00 am.

After taking breakfast on 8th March 2017, short listed participants reported at respective lecture rooms being arranged for oral/podium presentation. Three hours were allocated and subject specialists were requested to submit three best innovations (as 1st, 2nd and 3rd) in each discipline. The oral presentation was followed by lunch and the valediction ceremony was started at 3.30pm. Valediction ceremony witnessed Ms. Sarita Yadav, Civil Judge and Judicial Magistrate, Jaipur as Chief Guest; Prof.(Dr.) Shobha Tomar, Managing Director as Guest of Honour and Advocate Goverdhan Singh, RTI Activist and Advocate Rajasthan High Court, Jaipur as Special Guest. Dr. Pankaj Singh delivered welcome address and Dr. S. K. Das detailed out the activities undertaken in two days Convention. Brig. Kamlesh Singh, Principal, Nims Nursing College declared name of discipline wise winners and certificate of merit with mementoes were conferred upon each winner by all dignitaries present on the dais. The convention came to an end with National Anthem. High tea was served to all participants and intimation about transportation facilities was provided to student participants. List of Winners was uploaded on the Nims University website and it was ensured that participants were provided with transport support by 6.00am on 9th March 2017.

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5. List of Resource Persons and Subject Specialists

(A) Agriculture and Animal Husbandary

1. Prof. Vinod Kumar, Haryana Agriculture Uniuersity, Hissar(9997632955)
2. Prof. K. P. Singh, Haryana Agriculture Uniuersity, Hissar (9354310350)
3. Prof. Sandeep Kumar, NIET, Nims University, Jaipur(7737809947)
4. Dr. J. Anuradha, NIET, Nims University, Jaipur(7739772926)

(B) Basic Science

1. Prof. S. C. Joshi, University of Rajasthan, Jaipur(9414360717)
2. Emirates Prof. K. S.Gupta, University of Rajasthan, Jaipur(9829239129)
3. Prof. Renu Sharma, NIET, Nims University, Jaipur(8963066390)
4. Prof. Yatinder Kumar, NIET, Nims University, Jaipur(8290499383)
5. Dr. Sunil Pandey, NIET, Nims University, Jaipur(9166252447)

(C) Engineering and Technology

1. Prof. D. H. Patel, Ganpat University, Gujarat
2. Prof. Parveen Kumar, NIET, Nims University, Jaipur(7042269795)
3. Prof. D. K. Soni, Ganpat University, Gujarat
4. Dr. R. P. Sharma, NIET, Nims University, Jaipur(7062475526)
5. Dr. Sanjeev Kumar, NIET, Nims University, Jaipur(7891124600)

(D) Health and Allied Sciences

1. Prof. U.K. Gupta, NIMSR, Nims University, Jaipur(9001089295)
2. Prof. Vandana Sen, NIMSR, Nims University, Jaipur(8764171796)
3. Prof. Malay Kumar Samanta, Institute of Pharmacy, Nims University, Jaipur(9751615836)
4. Prof. Milind Pandey, Institute of Pharmacy, Nims University, Jaipur
5. Dr. Sandeep Tripathi, College of Paramedical Technology, Nims University, Jaipur(8769953286)

(E) Social Science, Humanities, Commerce and Law

1. Prof. AVS Madnawat, University of Rajasthan, Jaipur(9414280412)
2. Prof. Ravi Kant Gunthey, JNVU, Jodhpur(9414127931)
3. Prof. Akbar Hussain, AMU, Aligarh(9045934355)
4. Prof. R. K. Sharma, School of Law, Nims University, Jaipur(9414392019)
5. Prof. Meenakshi Mathur, JNVU, Jodhpur(9414392019)

6. Plan and Procedure adopted

(Excerpts from the AIU's Mongraph Anveshan- Student Research Convention)

The Projects can be presented in the form of live demonstrations /models / posters/ podium (oral) presentation in any aforementioned categories/areas/fields. Assessment of projects is done in three rounds each at Zonal and National Level. In the first round, the contestants have to display their projects in poster presentations (Size of Posters - 1m X 1m) before a panel of judges. If selected in the first round, the projects will be allowed for the second round where the contestants have to make a podium (oral) presentation before the panel of Judges. In the third Round, the presentation will be open for question-answer.

| Criteria | Weightage |
|------------------------------------|------------------|
| Scientific Thoughts and Principles | 20 |
| Creativity | 20 |
| Thoroughness | 10 |
| Skill | 10 |
| Relevance | 20 |
| Cost Effectiveness | 10 |
| Teamwork | 10 |

Entries of the Research Projects are purely Institutional and only Bonafide Fulltime Students from Undergraduate to Doctoral Degree level, who are below 30 years of age, are eligible to take part in the Convention.

7. Selected Innovations of the WZSRC (Category Wise) -2017

CATEGORY-1: AGRICULTURE AND ANIMAL HUSBANDARY

| Position | Code | Name | University/ Institute/ College | Address | Title of the project | Mobile No. | Email. address |
|-----------------------|------------------|---------------------------------|--|--|--|---------------------------|------------------------------|
| 1st | AGA H-102 | Gurbir Singh | IABM Bikaner, Rajasthan | Institute of Agri Business Management SKRAU, Bikaner - 334006 | Entrepreneurship Development model to assess camel dairy potential in Rajasthan camel milk marketing | 7589166876 | gurbir.iabm@gmail.com |
| 2nd | AGA H-115 | Saurabh Jaiswal | Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra | F-213, Boys hostel, M.P.K.V Rahuri, Dist - Ahmednagar (MS) | Innovative & affordable onion storage structure | 8408847041 | saurabhjaiswal979s@gmail.com |
| 3rd | AGA H-106 | Nikhitai Bhikaji Yelmule | College of Agriculture, Gadchiroli, Dr. PDKV, AKOLA, Maharashtra | The Associate Dean, College of Agriculture, Sonapur - Gadchiroli | Best to waste of paddy straw for rural empowerment | 9923983488; 8928621154 | nikhitaiaby@gmail.com |



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Category-2: BASIC AND PURE SCIENCE

| Position | Code | Name | University/ Institute/ College | Address | Title of the project | Mobile No. | Email. address |
|----------|----------|--|--|---|---|--------------------------|--|
| 1st | BSSC-203 | Lynn Dlima | University of Mumbai, Mumbai, Maharashtra | 8/2/13 Bhavani NG Marol Maroshi Road, Andheri (East) Mumbai - 400059 | Screening for potential nano silver synthesizing actinomycetes: An unexplored Green synthesis | 9833340148 | lynndlima@rediffmail.com |
| 2nd | BSSC-213 | Rucha Vikram Deshpande Preeti Lal Bahadurkari | Prof. Ramkrishna More ACS College, Akurdi, Pune, Maharashtra | Officer on Special Duty, Board of College & Universities Development, Savitribai Phule Pune Universities, Pune - 411007 | In Ovo Yolk Sac Membrane: A Screening Tool | 9822679733 9763539064 | rucha.s1508@gmail.com koripreeti20@gmail.com |
| 3rd | BSSC-208 | Pawar Hrishikesh Balasaheb | Mahatama Phule Krishi Vidyapeeth, Rahuri, Maharashtra | | Mimicking nature turns sewage to bio-crude oil in minutes | 8668413963 | hrishineyo@gmail.com |

Category-3: ENGINEERING AND TECHNOLOGY

| Position | Code | Name | University / Institute/ College | Address | Title of the project | Mobile No. | Email. address |
|-----------------|----------|-------------------------------|---|---|---|------------|------------------------------|
| 1 st | EGAT-301 | Akash Sagari | Anantrao Pawar College of Engineering and Research, Pune, Maharashtra | Officer on Special Duty, Board of College & Universities Development, Savitribai Phule Pune Universities, Pune - 411007 | Rotorcraft - Design and Development of an Unmanned Aerial Vehicle | 8793163122 | akashsagari1037@gamil.com |
| 1 st | EGAT-325 | Paramjot Singh | Charotar University of science & technology, Gujrat | GF-1 Kabir plaza, B/H bank of baroda, Vallabh Vidyanagar | Design of intake system for commercial car | 8154887987 | sparamjatsingh@gmail.com |
| 2 nd | EGAT-320 | Nirav Dineshbhai Sodha | Charotar University of science & technology, Charotar, Gujrat | D-303, Hitarth Society, Chharvada, GDIC Vapi - 396 195 | Design & Testing of Automobile Exhaust system | 9558733396 | nisavsodha218@gmail.com |
| 3 rd | EGAT-314 | Kshirsagar Vidyarani | SVERI'S College of Engineering, Pandharpur, Solapur, Maharashtra | C/O R.P Dune A/B Kasegaon Tal Pandharpur Dist - Solapur | Design optimization of Biogas Digester for Performance Improvement and Fault Minimization | 9545553884 | vskshirsagar@coe.sveri.ac.in |

Category-4: HEALTH AND ALLIED SCIENCES

| Position | Code | Name | University/ Institute/ College | Address | Title of the project | Mobile No. | Email. address |
|-----------------|----------|--|--|---|--|---------------------------|----------------------|
| 1st | HAAS-408 | Kinjal Jain | Dr. D.Y Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune, Maharashtra | Trimurti Sadan, Megh Wadi Jogeshwari East Mumbai - 400060 | Rib Cage Plaster | 9028641755; 9028432669 | Kakdi30@gmail.com |
| 2 nd | HAAS-401 | Abhinandan Raysaheb Patil | D. Y Patil University, Kolhapur, Maharashtra | F-9 Gajalata Avcode Sykes Extension, Kolhapur - 416001 | Nutraceutical Milk Chocolate: A new ear remedial healer against Cytomegalo virus infection | 9511761008 | abhisir5@gmail.com |
| 3 rd | HAAS-409 | Miten J Mehta | University of Mumbai | 18/B Bhuyang dev society, Sala Road, Ghahodia, Ahmadabad | Novel Immune modified donors Bone Marrow Stem Cells for prevention of Graft Versus host disease after allogeneic Bone marrow, Transplantation | 9820430940 | miten810@yahoo.co.in |

Category-5: SOCIAL SCIENCES, LAW, MANAGEMENT AND COMMERCE

| Position | Code | Name | University/ Institute/ College | Address | Title of the project | Mobile No. | Email. address |
|-----------------|----------|----------------------------|--|--|---|---------------------------|---------------------------|
| 1st | SLMC-511 | Prapti Mehta | SNDT Women's University, Juhu, Mumbai, Maharashtra | 1/404, Raheja Tipco heights, Rani Sati Marg, Malad (E), Mumabai | Developing concept based mobile applications for preschoolers: perspective of fathers, mothers and teachers | 9930756069 | mehtaprapti1204@gmail.com |
| 2 nd | SLMC-509 | Vishaka Arun | University of Mumbai, Thane, Maharashtra | 9 A wing Prerna Co-operative housing society - 4 Shrrnagar Thane | A study of health insurance subscribers in A Town in Maharashtra | 7045276087/ 7045276089 | vishakaha123@gmail.com |
| 3 rd | SLMC-507 | Parag Sudhir Shinde | BKPS College of Architecture, Pune | Pune, Maharashtra | Incorporating Human Aspects in Smart Cities | 8390914844 | paragshinde24@gmail.com |



8. Recommendations

Following recommendations are worth submitted.

- 1) Participation fee be charged per entry and principal investigator will be registered for each entry.
- 2) Accommodation and hospitality charges may not be imposed on principal investigator but the same may be charged from the participants other than principal investigator.
- 3) Brief outline of every registered innovations/projects should be made available to coordinator for release of Souvenir.
- 4) Student Research Convention may be scheduled for three days instead of two days.
- 5) Adopted methods adopted and laid down criteria may be further strengthened.
- 6) Host university should display list of winners (at respective level of competition) on their website.
- 7) Records of showcased innovations at zone, central and national level competitions so that illusion in selecting research projects may not occur since all rights are reserved with the AIU has are to be maintained.