AICTE-ISTE Induction/Refresher Programmes for Teachers in Technical Institutions

ISTE is very happy to inform that the MoU has been signed between AICTE and ISTE on 04-05-2017 at AICTE Hqrs., New Delhi to conduct the Induction/Refresher Programmes for teachers in technical institutions for their professional refinement. AICTE has kind enough to sanction 100 refresher courses and 50 induction courses with a grant of Rs.3.0 lakhs per programme. Similarly AICTE has also sanctioned 100 refresher courses and 50 induction courses to be conducted on Self-Finance basis through ISTE. All these programmes will be considered for Career Advancement Scheme of AICTE.

These training programmes will provide an opportunity for teachers to familiarise themselves with modern engineering practices, including the latest technological advances adopted by industry keeping in view the national needs and priorites and relevant technologies. Initially there will be 100 refresher training programmes (in service training for eingineering college teachers for subject knowledge updation) and 50 Orientation training programme (for fresh engineering college teachers in pedagogy) conducted by ISTE. On the same grounds ISTE will conduct equal number of programmes on the self-finance basis. Applications will be invited through online portal of ISTE. A maximum of two proposals only per institute would be considered in a year. Selection will be done after careful screening of the applications by ISTE.

Certification for these programmes will be done joinly by AICTE and ISTE. All these programmes will be considered for Career Advancement Scheme of AICTE. These programmes will also help faculty members to update knowledge providing an opportunity for interaction and mutual exchange of ideas between teachers and/or working in particular areas of specialisation. It will also help teachers in updating knowledge and improving organisational and pedagogical skills of teachers.

This major event has happened after a gap of eight years and ISTE is thankful to AICTE for having faith in us and it is believed this bondage will be stronger than before and will be there forever particularly in strengthening the quality of technical education in the country.

Exchanging the MoU between Dr. Anil D. Sahasrabudhe Ji, Chairman, AICTE and Prof. Pratapsinh K. Desai, President, ISTE. The other dignitaries present were Prof.Ranjit Sawant, ISTE EC Member; Prof. Vijay D. Vaidya, Executive Secretary, ISTE; Dr. M.P. Poonia, Vice Chairman, AICTE; Dr. Dileep Malkhede, Advisor-I, AICTE; Prof. Yeshwant Kolekar, ISTE EC Member

FORTHCOMING EVENTS

- International Conference on **Sustainable Engineering and Technology (IconSET 2018)**, organised by ACS College of Engineering, Bengaluru in association with Raja Rajeswari College of Engineering, Bengaluru during 19-20 April, 2018. For details contact **The Organising Team** (IconSET 2018). Email: acsce.energy@gmail.com

- International Conference on **Intelligent Communication and Computational Techniques (ICCT'17)**, organised by Manipal University, Jaipur, December 22-23, 2017. For details contact : **Alka Chaudhary**, Assistant Professor, Dept. of IT. Mobile : 09571658111; Email : alka.chaudhary@jaipur. manipal.edu.

- International Conference on **Soft Computing and Mathematical Modelling (ICSCMM-2017)**, organised by KIET Group of Institutions, Ghaziabad, U.P., December 22-23 December, 2017. For details contact : **Dr. C.M. Batra**, Convener, ICSCMM. Phone : 09873725677; email : cm.batra@kiet.edu.

- International Conference on **New and Renewable Energy Resources for Sustainable Future** (ICONRER 2017), 2-4 February, 2018, organised by Dept. of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur. For details contact : **Shri Ashish Nayyar**, Convener (ICONRER-2017). Phone : 09785449998. Email : iconrer2017@skit.ac.in.

- Third International Conference on **Cognitive Computing and Information Processing (CCIP 2017)**, 15-16 December, 2017, organised by Dept. of Computer Science & Engineering and Information Science & Engineering, JSS Academy of Technical Education, Bengaluru. For information email at : ccip2017b@ gmail.com.

- 10th NABS-National Conference on **Recent Trends in Life Science : Research, Practices and Application for Sustainable Development**, September 7 & 8, 2017, organised by Department of Botany and Zoology, Bharathiar University, Coimbatore. For details email : lifescienceconference2017@gmail.com; secretarynabs @ gmail.com

PERSONAL COLUMN

- **Dr. G. Venkatesan** (LM), Assistant Professor, Dept. of Civil Engineering, University College of Engineering, Tiruchirappalli has been awarded the **Vishwakarma Award** for the category of Achievement Award for Academician organised by Construction Industry Development Council (CIDC), Government of India, presented on 7-3-2017 at India Habitat Centre, Lodhi Road, New Delhi.

- **Acharya (Er.) Daria Singh**) (LM), Joint Director, Technical Education, Rajasthan, Jodhpur and Chairman, ISTE Rajasthan Section has been awarded **Bharat Nirman National Award 2016** for his exceptional contribution as administrator, academician, motivational leader in India.

- **Dr. P.C. Jain** (LM), Scientist with Defence Research & Development Laboratory (DRDL), Hyderabad has been inducted as Fellow of Telangana State Academy of Sciences in the field of Engineering Sciences for his marvellous contribution in the area of Rocket Structures.

- **Dr. N.K. Gupta**, Chairman, ISTE Delhi Section has been re-elected as Member of National Council of Indian Society for Training and Development from Delhi Chapter for the term 2017-18. He is also member of Skill Development, Testing & Certification Committee of ISTD.

WIT AND WISDOM

- Life is a combination of adjustments and compromises. Adjust when someone wants to be with you, and compromise when you want to be with someone.

- Relationships these days are harder now because conversations become texting, arguments become phone calls and feelings become status.

- Good people are like street lights along the roads. They do not make the distance short but they light up the path and make the walk.

- The most useful asset of a person is not a head full of knowledge. But a heart full of love with ears open to listen and hands willing to help.

- What is done is done. What is gone is gone. One of life's lessons is always moving on. It is okay to look back and think of fond memories but keep moving forward.

- Character is greater than beauty, Humanity is greater than wealth but nothing is greater than keeping relations alive.

- Do everything with a good heart and expect nothing in return, and you will never be disappointed.

- It is very easy to give example but it is very difficult to become an example.

- Never leave a true relation for few faults. Nobody is perfect. Nobody is correct and at the end, affection is always greater than perfection.

- A correct decision can double the confidence and a wrong decision can double the experience. So no need to worry about both situations, just continue to put in your efforts.

- Always end your day with a positive thought. No matter how hard today was, tomorrow is a new day filled with possibilities.

ACTIVITY FOR THE MONTH

TOPIC FOR DISCUSSION

Skill India and Start-ups - A comparision

All the Chapters/Student Chapters may conduct Seminars/Workshops on the above topic and send the recommendations to the Headquarters for the needful.

PRESIDENT'S COLUMN

Flexibility in Technical Education System

The technological changes are taking place very fast and particularly with free and rapid acquisition of new technologies. These changes are very much accelerated. The methodology for effecting technologies needs to be flexible to cater the fast changing requirements. The fast technological revolutions are causing new kind of complexities leaving organizations at diverse level of technologies but coping to update technological changes and thus demanding a flexible approach. Thus new technologies are providing adequate potential to create flexibility in systems. It is a very strange fact that our constitution has laid adequate stress on fundamental rights of the citizen of our great nation but probably architects of constitution did not realize very much the need for adequate attention on fundamental duties. There is always need for balance between duties and responsibilities on one hand and rights and privileges on the other hand. We as a nation have got to realize that for achieving excellence in any field, Quality and Accountability has to go in hand.

We have to work hard and learn to work together as a team if we have to make the nation prosperous and stronger. The common goal is human growth in socio political order and this has got to imbibe the sense of social responsibility which can be well enriched with the democratic virtues of self-discipline and humanly oriented will. Excellence achieved by individual, group or institution must be recognized, appreciated and rewarded. By adopting such an approach, a humanistic and growth oriented efficient system will be developed. Swami Vivekananda has said, "No nation can become great or achieve prosperity without its people developing a sense of self-discipline, social responsibility and co-operative work attitude."

Remarkable change is observed if our public service activities get infused with an enlightened citizenship awareness and humanistic motto. If a man as a person, as an enlightened citizen becomes an employee of public service organization, human values become manifest and enrich the work of the system qualitatively. Such persons think themselves as a free citizen of our country devoted to perform service to the people of the country and not a mere employee. This real concept transforms his work into mission and a commitment to nation. This reality enhances the dignity of the person from a mere paid servant into a useful instrument for human purpose. Bernard Shaw once said, "The true joy in life is to be used for a purpose which you consider mighty".

Each one of us has to recognize our responsibilities and has to keep the motto that one has to contribute towards continuous improvement in wellbeing of our nation. The following values deserve utmost attention for achieving the above mentioned goal such as a) Service to Nation, b) Harmony and Co-operation, c) Fairness, d) Courtesy and Humility, e) Struggle for Improvement, f) Adjustment and Assimilation, g) Gratitude. The integrated effect of above given parameters will result into omnidirectional development of human resource management, as such attitudes imbibe:

(i) respect for dignity and inherent worth

(ii) self-discipline, human concern and practical efficiency

(iii) thrust to dynamism and humanistic orientation

(iv) improvement in inter-human relationship in all walks of life (including technical education)

(v) sense of duty, punctuality, co-operation and commitment

Our technical education system should be adaptive and provide good understanding of Human Values and Social Ethics among Engineering, Pharmacy, Management, Architecture and other professionals at all levels. In the present scenario, globalisation would provide melting pot of diverse traditions and cultures, and in such situation basic issues of right, wrong, ethics, values, morality, equality and social justice need appropriate introspection and understanding. The young students of engineering and other professional programmes must be made fully aware to understand the implications of their decisions and actions.

Prof. Pratapsinh K. Desai
President, ISTE

NEWS FROM ISTE FACULTY CHAPTERS

GUJARAT

- **Kilachand Devchand Polytechnic, Patan** organised one week ISTE approved Short-Term Training Programme on **Disaster Management and Risk Reduction** from 1st to 5th May, 2017.

STTP programme at a glance.

- **Birla Vishvakarma Mahavidyalaya Engineering College, Vallabh Vidyanagar** organised ISTE approved and TEQIP-II sponsored one week Short-Term Training Programme on **Statistical Analysis for Scientific & Technical Research & Development** during 6th to 11th March, 2017.

KARNATAKA

- **Vivekananda College of Engineering and Technology, Puttur** conducted National Level Student Conference **Jnana Sangama-2017** on 13-5-2017. The conference was inaugurated by Sri Sathish Rao, President Governing Council.

The Chief Guest delivering the address during the conference.

- **JSS Polytechnic for Women, Mysore** organised two days workshop on **Cyber Security** by Mr. Niraj Kumar, Azure Skynet Solutions Pvt. Ltd., Gurgaon on 3-4 February, 2017. The one day workshop was also organised on **E-Transaction** by Mr. Bhaskar Sainik, Trainer, S.R. Academy, Mysore on 18-2-2017. The lectures on **E-Waste Management** by Smt. Sabike Noobia, Assistant Environmental Officer, Pollution Control Board, Mysore on 4-2-2017; **Fashion Designing and Fashion Illustration** by Smt. Nisha, Fashion Designer, Bengaluru on 6-2-17 and **Analysis and Designing of Algorithms** by Smt. Rashmi, Associate Professor, Dept. of CS, NIE, Mysore on 22-2-17.

> **Only sharp and well focussed photographs with ISTE Logo and Banner in the background shall be considered for publication.**
>
> **Editor**

MAHARASHTRA & GOA

- **Mauli Group of Institution's College of Engineering and Technology, Shegaon** organised National Level workshop on **Network Simulator 3** on 5-6 May, 2017. The programme was inaugurated by Hon. Chairman Shri Dnyaneshwarjidada Patil. The programme was followed by the guest lecture of Dr. Pradeep M. Jawandhiya, Principal PLIT, Buldana on **Recent Trends in Research and Importance of NS-3.**

The Chief Guest inaugurating the programme by lightening the lamp.

- **Shri Bhagubhai Mafatlal Polytechnic, Mumbai** organised ISTE approved SF-STTP on **Professional Development for Technical Teachers** from 15th to 20th May, 2017. The Chief Guest for the programme was Dr. S.K. Ukarande, ISTE Executive Council Member. The Chief Guest for Valedictory function was Prof. Vijay D. Vaidya, Executive Secretary, ISTE and he distributed the certificates to the participants.

Dignitaries on the dais during the inauguration of one week SF-STTP.

Prof. Vijay D. Vaidya, Executive Secretary, ISTE distributing the certificates to the parcipants during the valedictory function.

TAMILNADU & PONDICHERRY

- **Sri Ramakrishna Engineering College, Coimbatore** organised three days FDP on **MATLAB for Beginners** from May 2-5, 2017. The resource persons were senior faculties from department of Electronics and Instrumentation Engineering.

NOTIFICATION OF ISTE STUDENTS AWARD 2017

NOMINATIONS are invited from the ISTE student members of all Government, Aided and Unaided Institutions for the various **ISTE STUDENTS AWARD 2017.** The forms are available in the website **"www.isteonline.in".** Therefore, all Head of the Institutions/Chapter Chairmen/Faculty Advisors are requested to kindly advise the students of the ISTE Students Chapters to visit ISTE Website, download nomination form, read the instructions carefully and send their nomination to ISTE New Delhi before the last date. **Last date for submission of all the nominations to ISTE Hqrs., New Delhi is August 31, 2017.** The Awards will be given to winners during the **20th ISTE Annual Students Convention to be held during October, 2017.**

A. NATIONAL AWARDS

1. **Kerala Government Engineering Design National Award** instituted by the Government of Kerala during the XV Annual Convention of ISTE held at Thiruvananthapuram in December 1985. This Award is meant to promote and encourage creativity, innovation and design talents in engineering degree students.

   Eligibility : Any student in engineering or technology who is studying in an institution during this year or who is completing the degree course at any time during this year is eligible to compete for the award. Only FIRST DEGREE (no post graduate) students are eligible. Try individually or in groups of TWO only.

   Award Details : Cash Prize (Rs.3000/- for First, Rs.2000/- for Second and Rs.1500/- for Third), a Medallion and Certificates to winners and also to all participants.

2. **NIT, Kozhikode National Award for the Best B.Tech. Project from Engineering Colleges** instituted by National Institute of Technology, Kozhikode to promote research in the areas of :
   - Civil & Architecture Engineering
   - Mechanical & Production Engineering
   - Electrical & Electronics Engineering
   - Computer & Communication Engineering

   Eligibility : Students undergoing under-graduate programmes leading to B.E./B.Tech. degree in any Engineering Institution in India including the IITs, NITs, State Level Engineering Colleges, University Colleges and Engineering Dept. of Universities.

   Award Details : Cash Prize Rs.2000/- each for the above four disciplines, Medallion and Certificates.

3. **Baba Banda Singh Bahadur Engineering College National Award for the Best B.Tech. Project related to Sustainable Development from Engineering Colleges** announced by Sardar Prakash Singh Badal, former Chief Minister, Punjab and instituted by the Management of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab during 8th National Students Convention of ISTE during October 2005 to promote research in sustainable development in the area of :
   - Civil Engineering & Architecture
   - Mechanical Engg. & Production Engineering
   - Electrical Engineering & Electronics
   - Computers & Communication Engineering
   - Information Technology & Management
   - Agricultural Engineering

   Eligibility : Final year students undergoing under-graduate programmes leading to B.E./B.Tech. Degree in any engineering institution in any of the above discipline in India including the IITs, NITs, State Level Engineering Colleges, University

   Award Details : Cash Prize Rs.2000/- each for the above six disciplines, Medallion and Certificates.

B. REGIONAL AWARDS

1. **Devinder Singh Bansal Memorial Award for Best B.Tech. Project in Mechanical Engineering and Allied Branches in the State of Punjab** instituted by Mrs. Anup Kaur Bansal and Dr. A.S. Bansal donated a sum of Rs.1 lakh to ISTE to Institute a State Level Award in the area of Mechanical Engineering and Allied Branches (it includes Mechanical Engg., Production Engg., Automobile Engg., Industrial Engg., Agricultural Engg. and Farm Machinery) in the memory of their late son Shri Devinder Singh Bansal.

   Eligibility : Students undergoing under-graduate programmes leading to B.E./B.Tech. Degree in Mechanical Engineering and Allied Branches in any Engineering College in Punjab.

   The Award consists of a Cash Prize of Rs.7000, a Medallion, and a Citation.

2. **ISTE-NARSEE MONJEE Award for Best Project work done by Polytechnic Students in Maharashtra State** instituted by The Narsee-Monjee Educational Trust, Mumbai for Final Year students of Polytechnics for their Project Work.

NOTIFICATION OF ISTE STUDENTS AWARD 2017

Eligibility : Final Year Diploma students in Maharashtra State graduating in B.T.E. approved Diploma Courses in Engineering/Technology/Architecture/ Pharmacy can apply through their Polytechnics.

Both Group Projects and Individual Projects will be acceptable. **However, the Group size should not exceed 4 STUDENTS.**

Selection of Award : A Panel of Judges consisting of representatives of DTE, ISTE and Narsee-Monjee Trust will select the Best, Second Best and Third Best Projects.

Award Details : Cash Prize (Rs.2500/- for First, Rs.1500/- for Second and Rs.1000/- for Third), a Medallion and a Certificate.

3. **Maharashtra State Engineering Design Award** for Engineering Students (Degree Level) instituted by the Government of Maharashtra to promote and encourage creativity, innovation and design talents in engineering degree students.

   Eligibility : Any student in engineering or technology who is studying in an institution in Maharashtra State during this year or who is completing the degree course at any time during this year is eligible to compete for the award. Only FIRST DEGREE (no post graduate) students are eligible. Try individually or in group of TWO only.

   Award Details : Cash Prize (Rs.3000/- for First, Rs.2000/- for Second) a Medallion and Certificates to winners. In case two students work on a project and get the award, the cash prize will be shared between the two, certificates will be given to both, but the medallion will be given to the leader of the group only.

4. **Punjab Technical University Award for Young Engineer Innovators** for the Best B.Tech. Projects by the students of Engineering Colleges affiliated to Punjab Technical University in the Punjab State. The Award was instituted by Punjab Technical University by donating a sum of Rs.11 lakhs to encourage the students and to stimulate the spirit of inventiveness among the technical students in order to honour and recognize their creative talent with a mission to harness their performance for the benefit of society and the nation in the following disciplines:

   - Civil Engineering & Architecture
   - Mechanical, Production Engineering, Industrial Engineering and Automobiles etc.
   - Electrical Engineering & Electronics Engineering
   - Computers and Communication Engineering & Information Technology
   - Chemical Engineering, Bio-Technology & Food Technology etc.

   Eligibility : Final year students of the above branches undergoing under-graduate programmes leading to B.E./B.Tech. Degree in the institution affiliated to Punjab Technical University including the NITs, University-Colleges, Engineering Depts., Engineering & Technology Colleges etc.

   Award Details : Cash Prize, Medallion and a Citation.

5. **Best Students Chapter Award** (One from each Section)

   An Award consisting of a plaque and a certificate will be given to the Best Students Chapter in each Section (provided there are at least 10 Student Chapters in the Section) based on their performance during the period January 1 to September 15 as judged by the concerned Section Managing Committee. The Award will be presented during the National ISTE Students Convention during October, 2017. The Award consists of a Certificate and a Medallion. Sections are requested to recommend the name of Best Students Chapter as judged by them to ISTE Hqrs. New Delhi by September 15, 2017.

ISTE Best Student Award 2017 (one from each student chapter)

All Student Chapters Managing Committees are requested to kindly select one best student from their Student Chapter on the basis of overall performance of the student members. The name of student selected may please be sent to their Section under intimation to ISTE Hqrs., New Delhi. The ISTE Section will give the **Best Student Award 2017** to the Students during the **Section Level Students Convention**. Student Chapters are kindly requested to get in touch with their Section regarding date, time & venue of the Convention.

Executive Secretary, ISTE

VISHWAKARMA YOJANA :
CONNECTING YOUTH FOR THE DEVELOPMENT OF VILLAGES

Jagruti Shah, Project Coordinator, Vishwakarma Yojana, Gujarat Technological University, Ahmedabad
Dr. Indrajit Patel, Director, Vishwakarma Yojana & Principal, BVM Engg. College, Vallabh Vidyanagar
(Member, National Executive Council, ISTE, New Delhi)

1. Background

True Academic value of any course is realized only if class room sessions are complemented by industry orientation, international exposure or field trips and internships. This kind of practical training experiences have multiple, proven benefits for students, teachers, communities, and learning institutions. Since practical learning requires a great deal of effort from everyone involved, participants in a project can find motivation by learning about the potential benefits of a project before beginning it.

Field projects allow students to develop in numerous ways that can have lifelong benefits. First, gaining practical experience puts education theory into practice and thereby makes it more relevant. Practical experience also allows people to learn in a variety of ways (Lee, Bush, and Smith 2005). Furthermore, real-world learning prepares you for further education, for careers, and for community involvement. It is difficult to overestimate the value of learning by doing. Students who transition well from high school to college and from college to the workplace are those who switch from being receivers of information to being seekers of information; they take responsibility for their learning.

Second, those who engage in service learning tend to be more satisfied with their lives. Serving others makes the server feel good. Those who engage in shared tasks such as community service feel greater life satisfaction, personal control, vitality, and social support later in life (Harlow and Cantor 1996).

Third, Practical learning has been shown to enhance knowledge and skills and to improve self-esteem when students enter the workforce. Benefits included improvements in academic achievement, problem-solving skills, character, and social behavior. Additional benefits include being exposed to new careers, feeling stronger community ties, and feeling a desire for continued civic engagement.

In today's increasingly global and interconnected world, over half of the world's population lives in urban areas although there is still substantial variability in the levels of urbanization across countries. The coming decades will bring further profound changes to the size and spatial distribution of the global population. By looking the urbanization scenario, if the work-based activity in which students are engaged in learning through practical experiences in rural areas because in India, Rural population comprises of nearly 70% of the country's total population.

It has become necessary for the youth of today to know and understand the rural life and its social, cultural and economic ramifications.

2. About Project & Role of Young Technocrats

Vishwakarma Yojana is one of the initiatives towards Rurbanization by Government of Gujarat, which was allotted as a pilot project to the **Gujarat Technological University**. The students and Faculty Members meet all the stake-holders in a village, survey the existing facilities. Then they re-imagine and re-design the whole of the infrastructure of the village. The students use their engineering skills to prepare detailed project reports for the infra-structure as a part of their Final Year project work. Through the Yojana, the students of GTU are getting real work experience and are able to apply their technical knowledge and practices to a real problem. This entails hard work, many strenuous visits to the village and long discussions with the various stake-holders.
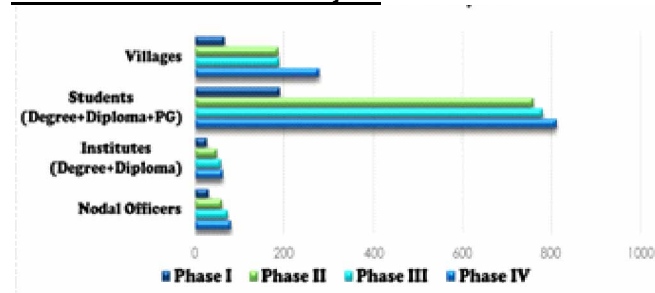
Vishwakarma Yojana is one of the approach for rural infrastructure development based on the concept of providing basic sustainable urban infrastructure to the rural population. The main aim of the project is "

"Vishwakarma Yojana" has provided the platform for real world experience to engineering students and simultaneously apply their technical knowledge in the rural infrastructure development. From the Techno Economic survey, Students have been identified the existing issues prevailing in villages and made the recommendations on the application of technology to achieve integrated and comprehensive development, through detail project report preparation and management. The approach like Vishwakarma Yojana is step towards nation development.

3. Project Team

Students from Civil Engineering (Final Year Degree & Diploma Course) and Electrical Engineering (Final Year Degree & Diploma Course) & on faculty as a nodal offcier formed a team for each village.

Rational of Vishwakarma Yojana

The Gujarat Technological University is allotted important and prestigious project of Vishwakarma Yojana by the Government of Gujarat for the year 2012-13. Success of phase I, II & II has led GTU to include 278 villages for Phase IV in the current academic term 2015-16. 784 Students from 59 Diploma & Degree Institutes is working in the current phase IV. (Refer Figure)

VISHWAKARMA YOJANA

4. Methodology-Implementation

The project is being divided into three parts:

I. Techno-economic survey of villages

II. Data Analysis

III. Detailed Project Report with design Proposals, development strategies and action plan

From the gap analysis, the proposed development and planning strategies have been designed as per all the regulations and norms along with the consultation of concerned Government Officials (TDO, DDO & Sarpanch). Students of all respective villages have prepared design proposals for essential infrastructure facilities, prepared ready to execute documents, Detail estimates with abstract sheet, Measurement sheets, Recapitulation Sheet and Detail Drawings.

In the designing Phase, the students is proposing various designs from the

- Physical infrastructure facilities (Water, Drainage, Road, Electricity & Solid- liquid waste Management)
- Social infrastructure facilities (Education, Health & Sanitation facilities)
- Socio-cultural facilities (Community Hall, Library, Recreation Facilities & other)
- Sustainable infrastructures (Rain water harvesting, Biogas plant, Solar Street lights, Eco sanitation & other) and
- Repair & Maintenance of public buildings for overall development of village.

5. Achievements

Various designs proposed by the students such as Solid Waste Management, Midday Meal Building, Lake Development, Vermi Compost, Solar Photovoltaic Technology for energy saving, Child Welfare and Maternity Home, Energy Audit for all the Public Buildings for all the respective villages, Internal Road Design, Repair & Maintenance of Community Hall, Mamlatdar Building, Public Toilet Block with Rainwater Harvesting System, repair And Maintenance of High School Building, Rejuvenation of Gram Panchayat Office & Garden, Biogas Plant, Repair of well for increase the storage capacity of water, solar based electrification model for government building and others are already appreciated by various village authority.

6. Summary

6.1 Benefits to the Students

- The project improvised skill of student to interact with different section of society. It gave a platform to student to implement what they have learnt in classroom with actual need base study.
- It has given firsthand experience to student to utilize technology for benefit of society. It develops analytical and statically skill of student to find type of technology to be utilize.
- The project develops soft skills like team building, communication skills and report writing which will help them for bright future.

- It has opened a new arena of work for students.
- It is developing leadership qualities, societal responsibility, creating a sense of belongingness for the community.
- It also help in strengthen understanding on concepts of rural development and parameters of quality of life.
- It is also providing exposure to grassroots realities, in the rural settings, with a focus on participation in interventions by NGOs.
- Helping to understand and appreciate broader contexts of other partners, like government agencies, donors and local self-governance institutions, while participating in existing field projects.

6.2 Benefits to the Faculty

- It his helping in enhancing faculty-to-student communication.
- It is developing reciprocity and cooperation among Faculty & students
- It is encouraging active field teaching by faculty
- It is leading dynamic discussions between faculty students and authorities
- It is developing skill of Teaching with technology

6.3 Benefits to the Society/Nation

- Our nation having 70% population in rural area. If technology does not reach them, they may move to urban centers that is creating a problem. This project gives optimum utilization of technology at doorstep of rural area. This in hand will improvise life style of rural people. Best use of technology will make better living in form of environment, health and employability.
- As student provide design to deliver solution for development there will be less remaining to be done for implementation. This will make implementation faster.

6.4 Benefits to the Institute

- As institute it will be a social engineering work which will directly help society through institute.
- This will enhance popularity of course amongst the surrounding that will be beneficial for institute. It will create proper awareness amongst villager for education.

Overall, through this kind of practical learning and field experience the students and faculties both of are getting real work experience and are able to apply their technical knowledge and practices to a real problem.

7. Acknowledgement

NOTIFICATION OF ISTE NATIONAL/REGIONAL AWARDS 2017

ISTE is unique in the fact that among the professional Societies in India, it is only the ISTE that gives every year a number of National and Regional Awards to encourage innovation and excellence among teachers and students. All these awards were instituted by various organisations like Universities, Industries, State Governments, Trusts, etc. The Awards will be given to the winners during the **47th National Annual Convention of ISTE** to be held during December, 2017.

NOMINATIONS are invited from teachers/students of all Government, Aided and Unaided technical Institutions for the various ISTE AWARDS for the year 2017. Details regarding each award and nomination forms are available in the website of ISTE **"www.isteonline.in".** Please contact the Head of Institution for these details.

A. NATIONAL AWARDS

AWARDS FOR TEACHERS

1. **Anna University National Award** instituted by the Anna University, Chennai for honouring the most outstanding teacher of the year from Degree level institutions in the country.

   Eligibility : Teachers (including Principal/Head of Institution) of degree level technical institutions

   Award consists of a cash prize of Rs.8,000/-, a medallion and a citation.

2. **U.P. Government National Award** instituted by the U.P. Government during the XVI Annual Convention of the ISTE held at Motilal Nehru Regional Engineering College, Allahabad in 1986. This Award is to honour one Faculty member each from Engineering Colleges and Polytechnics for outstanding work done in a specified area of Engineering and Technology.

   Eligibility : Full time teachers (including Principal)

   Award consists of a cash prize of Rs.4,000, a medallion and a citation.

3. **ISTE-SGSITS National Award for Best Research Work done by Young Teachers (below 35)** instituted by Shri G.S. Institute of Technology and Science, Indore during the XXII Annual Convention of ISTE held at Indore during December 1992.

   Eligibility : Full time teachers (below 35 years of age) of Engineering Colleges

   Award consists of cash prize of Rs.6000/-, a medallion and a certificate.

4. **Maharashtra State National Award for the Research work done by teachers of Engg. Colleges** instituted by the Organising Committee of the XVIII Annual Convention of the ISTE held at Pune in December 1988 out of the Savings from the Convention Fund.

   Eligibility : Teachers (including Principal/Head of Institution) of Engineering Degree level institutions

   Award consists of cash prize of Rs.6000/-, a medallion and a certificate.

5. **Rajarambapu Patil National Award for Promising Engineering Teacher for Creative Work done in Technical Education** instituted by "Rajarambapu Patil Endowment Trust" Rajaramnagar, Sakharale (Maharashtra) to promote creative work among the Engineering College and Polytechnic Teachers.

   Eligibility : Full time Engg. College and Polytechnic Teachers

   One award is given for Engineering College and one award for Polytechnic teachers. Each award consists of a cash prize of Rs.4,000, a medallion and a citation.

6. **Bharatiya Vidya Bhavan National Award for an Engineering College having Best Overall Performance** instituted by the Bharati Vidya Bhavan, Mumbai to encourage Engineering Colleges to enhance performance with a view to improve the quality and standards of the programmes in Technical Education.

   Eligibility : Degree level Engineering Colleges

   Award consists of a Plaque and a citation.

8. **Bharatiya Vidya Bhavan National Award for Best Engg. College Principal** instituted by the Bharati Vidya Bhavan, Mumbai to encourage Heads of Engineering Colleges to develop outstanding leadership qualities, institutional development and Management and a commitment to quality and standards in all programmes.

   Eligibility : Principals of Degree Level Engg. Colleges

   Award consists of cash prize Rs.5,000/-, a medallion and a citation.

9. **ISTE-GSFC National Award for Best M.Tech. Thesis in Mechanical Engineering** instituted by Gujarat State Fertilizers Co. Ltd., Baroda in 1989.

   Eligibility : Full time P.G. Students of Engg. Colleges

   Award consists of cash prize (Rs.10,000/- I Prize, Rs.6,000/, II Prize), a medallion and a citation.

10. **ISTE-IPCL National Award for Best M.Tech. Thesis in Chemical Engineering** instituted by the Indian Petrochemical Corporation Ltd., Baroda for promoting research work among post-graduate students in Chemical Engineering.

   Eligibility : Full time P.G. Students of Engg. Colleges

   Award consists of cash prize (Rs.10,000/- I Prize, Rs.6,000/- II Prize), a medallion and a citation.

11. ISTE-L&T National Award for Best M.Tech. Thesis in Electrical/Electronics Engineering instituted by Larsen & Toubro Ltd., Bombay to promote post-graduate research in the area of Electrical/Electronics Engg.

Eligibility : Full time P.G. Students of Engg. Colleges

Award consists of cash prize (Rs.10,000/- I Prize, Rs.6,000/- II Prize), a medallion and a citation.

12. ISTE National Award for Best M.Tech. Thesis in Civil Engineering instituted by Smt. Saraswathi Bai and Dr. S. Venkoji Rao of Tirupati (Andhra Pradesh) in memory of their late sons Shri S.Sridhar and Shri S. Giridhar to promote research in the area of Civil Engineering at the Post-graduate level.

Eligibility : Full time P.G. Students of Engg. Colleges

Award consists of cash prize (Rs.10,000/- I Prize, Rs.6,000 /- II Prize), a medallion and a citation.

13. ISTE National Award for Best M.Tech. Thesis in Agricultural Engineering instituted by the Organisers of the 28th Annual Convention of ISTE held at Punjab Agricultural University, Ludhiana during November, 1998.

Eligibility : Full time P.G. Students of Engg. Colleges

Award consists of cash prize of Rs.10,000/- for the best thesis, a medallion and a citation.

14. Prof. K. Arumugam National Award for Innovative Research (for Engineering College Teachers only) instituted by the Management of Kumaraguru College of Technology, Coimbatore

Eligibility : Full time teachers (including Principal of Degree Level Technical Institutions.

Award consists of a cash prize of Rs.8,000/-, a medallion and a certificate.

15. V.K.M. John National Award for the Best Engineering College Teacher of Kerala State instituted by M.A. College of Engineering, Kothamangalam.

Eligibility : Full time teachers (including Principal of Degree Level Technical Institutions.

16. Shayesta Akhtar Memorial National Award for the Best Women Engineering College Teacher instituted by Dr. S.M. Ali, ISTE Executive Council Member of Orissa State in the memory of his late elder sister.

Eligibility : Full time teacher (women) (including Principal/Head of Institution) of degree level institutions

Award consists of a cash prize of Rs.5,000/-, a medallion and a citation.

17. ISTE-Syed Sajid Ali National Award for outstanding research work in the field of Renewable Energy instituted by Dr. S.M. Ali, former ISTE Executive Council Member of Orissa State in the memory of his late father Sayed Sajid Ali.

Eligibility : Full time faculty membrs of degree level technical institution (AICTE/UGC approved) and Scientist or Research Scholar from different Universities and Research Organisation approved by Govt. of India.

Award consists of a cash prize of Rs.5,000/-, a medallion and a citation.

18. Sri VVR Seshadri Rao, Gudlavelleru Engineering College National Award for the Best Private Engineering College instituted by Prof. Potluri Ravindra Babu, former ISTE National Executive Council Member, Andhra Pradesh Section in the memory of his Mentor, Guide, Philosopher and father figure to him Sri Vallurupalli Venkata Rama Seshadri Rao, Father of Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist., A.P.

Eligibility : AICTE approved Private Engineering Colleges conducting undergraduate and post-graduate programmes in Engineering and Technology.

Award consists of a Plaque and a citation.

19. ISTE-Ranganathan Engineering College National Award for Best Polytechnic Principal instituted jointly by Dr. P. Tamilarasi Murugesan, Chairperson Ranganathan Rajeswari Charitable Trust, Coimbatore and Dr. R. Murugesan, former President, ISTE .

Award consists of a cash prize, a medallion and a citation.

20. ISTE-Stripes of Redeemer National Award for the Best ISTE Chapter Chairman instituted jointly by Mrs. V.J. Sumaja Kumari, Chairperson, Stripes of Redeemer, Thiruvattar, Kanyakumari Dist. and Dr. S. Basil Gnanappa, former Executive Secretary & Programme Director, ISTE.

Award consists of a cash prize, a medallion and a citation.

21. ISTE-Kings College of Engineering National Award for Best M.E./M.Tech. Thesis in Engineering to promote research in agricultural applications and/or rural development instituted by the Management of Kings College of Engineering, Punalkulam, Pudukkottai Dist., T.N. during the 18th ISTE National Students Convention.

Eligibility : Students studying any discipline in post graduate engineering or technology in any institutions including the IITs, NITs, State Level Engineering Colleges, University during this year or who is completing the degree course at any time during this year is eligible to compete the award.

Award consists of a cash prize, a medallion and a citation.

22. **ISTE Calcutta Convention National Award** for the best paper presented by teachers at the Annual Convention of ISTE (one for Engineering College teachers and one for Polytechnic teachers), instituted by the Organisers of the 5th Annual Convention of ISTE held at Calcutta.

23. **ISTE Baroda Chapter Award** for the best paper published in the Indian Journal of Technical Education by teachers (one for Engineering College teachers and one for Polytechnic teachers), instituted by the organisers of the 10th Annual Convention of ISTE held at Baroda.

REGIONAL AWARDS

1. **Best Engineering College Teacher Award for Punjab State**, instituted by the Organisers of the 28th Annual Convention of ISTE held at PAU, Ludhiana.

   Eligibility : Teachers (including Principal/Head of Institution) of degree level institutions

   Award consists of a cash prize of Rs.7,000/-, a medallion and a citation.

2. **Best Engg. College Teacher Award for Maharashtra State**, Instituted by Govt. of Maharashtra.

   Eligibility : Teachers (including Principal/Head of Institution) of degree level institutions

   Award consists of a cash prize of Rs.3,000/-, a medallion and a citation.

3. **Rajalaxmi Memorial Best Engineering College Teacher Award for Orissa State** instituted by the Orissa Engineering College, Bhubaneswar.

   Eligibility : Teachers (including Principal/Head of Institution) of degree level institutions

   Award consists of a cash prize of Rs.5,000/-, a medallion and a citation.

4. **Charutar Vidya Mandal, Vallabh Vidyanagar, Gujarat Award** for the Best Engineering Teacher for Gujarat State.

   Eligibility : Teachers (including Principal/Head of Institution) of degree level institutions

   Award consists of a cash prize of Rs.5,000/-, a medallion and a citation.

5. **ISTE-NARSEE MONJEE Award for Polytechnics having Best Overall Development** instituted by the Narsee-Monjee Trust, Mumbai.

   Eligibility : Polytechnics in Maharashtra

   Award consists of a Plaque and a citation.

6. **Best Polytechnic Teacher Award (State Level).**

States covered : Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Punjab and Uttar Pradesh.

Eligibility : Full time teachers of Polytechnics of respective States

Award consists of a cash prize of Rs.3,000/-, a medallion and a citation.

7. **Arutchelvar Dr. N. Mahalingam Award for Best Polytechnic Teacher for Tamil Nadu State.**

   Eligibility : Full time teachers of Polytechnics in Tamil Nadu State

   Award consists of a cash prize of Rs.3,000/-, a medallion and a citation.

8. **Charutar Vidya Mandal, Vallabh Vidyanagar, Gujarat Award** for the Best Polytechnic Teacher for Gujarat State.

   Eligibility : Full time teachers of Polytechnics of Gujarat State

   Award consists of a cash prize of Rs.3,000/-, a medallion and a citation.

9. **Narayan Memorial Best Engineering College Principal Award of Orissa State**

   Eligibility : Teachers (including Principal/Head of Institution) of degree level institutions of Orissa State

   Award consists of a cash prize, medallion and citation.

10. **Loknath Award for Best Polytechnic Principal of Orissa State** jointly instituted by ISTE Orissa Section and Swami Vivekananda School of Engineering and Technology, Bhubaneswar

    Eligibility : Full time Principals in the polytechnics in Orissa and hold qualification as per AICTE Norms.

    Award consists of a cash prize, a medallion and a citation.

11. **Gandhi Award for Best Engineering College of Orissa State** jointly instituted by Gandhi Institute of Engineering and Technology, Gunupur and ISTE Orissa Section.

    Eligibility : Engineering Colleges in Orissa State which conduct under-graduate and post-graduate courses in engineering/technology as approved by AICTE (other than IITs)

    Award consists of a medallion and a citation.

Please Note : All the nominations should reach ISTE Hqrs., New Delhi positively by **31-10-2017** to the following address:

The Executive Secretary
Indian Society for Technical Education
Shaheed Jeet Singh Marg
Near Katwaria Sarai, New Delhi - 110 016
Phone   : 011-26513542, 26963431
Fax   : 011-26852421
Email   : istedhq@vsnl.net
Website : www.isteonline.in

CONSORTIUM OF SELF - FINANCING PROFESSIONAL, ARTS AND SCIENCE COLLEGES IN TAMILNADU

One day Conclave on **Creating Competent Engineers for New India, with Innovative Minds and Entrepreneurial Capabilities** was organised at Chennai and hosted by the R.M.K. Group on May 20, 2017. The Conclave was inaugurated by Hon'ble Minister for Higher Education, Government of Tamil Nadu. The Chief Guest of the function was Dr. Anil D. Sahasrabudhe Ji, Chairman, All India Council for Technical Education.

The eminent speakers of the Conclave were Thiru K.P. Anbalagan, Hon'able Minister for Higher Education, Government of Tamil Nadu; Prof. Anil D. Sahasrabudhe, Chairman, AICTE; Thiru Sunil Paliwal, I.A.S, Principal Secretary, Dept. of Higher Education, Government of India; Prof. Pratapsinh K. Desai, President, ISTE; Thiru R.S. Munirathinam, President of the Consortium; Prof. A. Baladhandapani, Vice President of the Consortium; Dr. P. Selvaraj, Secretary of the Consortium; Dr. K. Chandrasekaran, Dean, RMK Engineering College; Mr. K. Purushothaman, Senior Director, NASSCOM; Mr. K.R.A. Nair, Former Executive Director, Lucas TVS Ltd.; Mr. Vasudevan Rajagopalan, Head-Talent Acquisition (India), Tata Consultancy Services (Ltd.); Mr. Vishwanathan Venkata Subramanian, National Campus Manager Engineering, WIPRO Ltd.; Prof. A. Kanagaraj, Vice President of the Consortium; Dr. S. Charles, Principal, Dhanalakshmi Srinivasan College of Engineering; Padmashri R.M. Vasagam, Former Vice Chancellor, Anna University; Dr. S. Ganesan, Registrar, Anna University; Mr. K. Dinesh Kumar, Practice Lead-Talent Acquisition Infosys Ltd.; Mr. Manikandan Thangarathnam, Director Engineering, Amazon Development Centre India Pvt. Ltd.; Mr. K.E. Raghunathan, National President, All India Manufacturers' Organization; Mr. G. Ramasubramanian, Chief Operating Officer, Zafin Software Centre of Excellence; Thiru Nanjil M. Vincent, Vice President of the Consortium.