

Vigyan Ashram Status Report

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December 2019

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A] DBRT Highlights of the month :

Weather in Pabal was very pleasant in December. Due to good monsoon, we have good agriculture season as well. DBRT batch in its mid-course. Student were busy in learning & practicing new skills, study visits and project implementation activities. Following are some of the highlighted activities during December :

- Students of electrical department learnt over hauling diesel engine while servicing & maintains work of 10 KVA DG set. Students also installed a 3 HP (single phase) water pump for newly installed drip irrigation system of polyhouse. They earned a community service of Rs. 17044/- through this work.
- Workshop department students started fabrication of new free-stall poultry & cow shed. They also fabricated water tank stand for poultry farm. They also learnt basics of PVC pipe fittings and toilet pot fixation work. Total value of the community service was Rs.206719/- including labor charges of Rs.37,419/-.
- Students in agriculture section harvested fodder jawar crop approximately 1200 bundles worth Rs.24000/-. They had cultivated fodder maize crop in 1.5 Acre area.
- Students in Home & Health section successfully formulated recipe of 'Nutritional Bajara laddoo ' and 'Dry fruit Health Bar'. They are now conducting organoleptic trials with probable customers for regular production & trainings.
- Students learnt & practiced designing of ID cards, invitation cards, posters etc in their computer classes. They also got their individual blog pages and updating them with day-to-day learning activities.
- **Study Tour :**
 - i) 5th Dec : Team of 33 students & 3 staff members visited 'BAJAJ Electrical' Ranjangaon unit to learn 'industrial fabrication' operations.
 - ii) 12th Dec : Students visited 'KISAN' agricultural exhibition at 'Moshi, Pune' to see new agricultural technologies & demonstrations.



- iii) 29th Dec : Students went on 'cycle tour' to goat farm in Sanvindane village (30 Km) to learn 'stall feeding system' of goat farming with 'Saanen' and Boar breeds.



(DBRT students @ Goat farm, Kisan exhibition , Bajaj Electricals)

B] Short Term Trainings : Following training programs were conducted in the month of Dec 2019.

i] IBT Instructors training @ Bijapur (Chhattisgarh)

IBT instructor training program was conducted for instructors of seven school in Bijapur district of Chhattisgarh from 30th Nov 4th Dec 2019 at Matwada School. Training was attended by 35 IBT instructors. They learned new technologies, teaching methodology and technology application in IBT program.



ii] Cloud computing training workshop

AWS-cloud computing training workshop was conducted from 25th to 28th December. It was first training on emerging technology like cloud computing conducted at Pabal campus. Our Management committee member Mr. Mahendra Rajgude conducted the training as a Resource person. Mr.Rajgude is AWS -certified trainer with vast experience in networking, cloud computing and its industrial application. Training topics includes AWS cloud services, SP3 , EC2 , security, VPC ,certification roadmap etc. Total 8 students (Most of them were software professional) participated in the training.

iii] ATL instructor training

Atal Tinkering Lab (LAB) teachers training (TOT) workshop was conducted on 7th and 8th Dec. It was second workshop in the series of three training program planned in association with Savitribai Phule Pune University, Design Innovation Centre (DIC) program. Training was attended by 15 instructors from 13 different schools from Nasik, Satara and Pune district. Training includes practical session on ideation, selecting project ideas, lab operations, inventory management, lab tools and equipment's etc.



Cloud computing team with Rajgude Sir



ATL teachers training workshop

C] STARS Forum conference

Skill Training for Advancement of Rural Society (STARS) forum 11th annual conference was held on 6th & 7th December @ BAIF, Pune. Vigyan Ashram is one of the collaborator of the conference with Dr.Yogesh Kulkarni as a Chairman of STARS forum and Mr.Ashok Kalbag as one of the panellist. This year's conference theme was on 'Reimagining rural development bridging policy & practices.' It was good opportunity for us to network with other organisations and learn from their best practices.



D] IBT Update:

Following are some of the highlights of activities during December.

- 1) Science Exhibition : IBT schools are enthusiastically preparing & participating in various science exhibitions.
 - Adarsh Prashala, Nagaj : IBT students fabricated 'Multipurpose Farming Machine' and exhibited at district level science exhibition during 15th to 17th December. This machine can carry out pesticide spraying, sowing, weeding etc. They used recycled bicycle spares to fabricated the model.
 - Kunrze Vibhag Highschool, Kurze (Dist- Thane) made a 'clap switch to operate ceiling fan and fan. They got 1st price at block level exhibition.
 - Hanuman Madhyamik Vidyalaya, Nimgaon Bhogi (Dist- Pune), IBT students are fabricating maize corn processing machine for their science exhibition.
 - New English School, Marunji (Dist-Pune) - IBT students are fabricating 'LPG gas leakage alarm' system for their science exhibition.
- 2) Students of Anudanit Prathamik Madhyamik Adivasi Ashramshala , Padsare, Pali (Dist- Raigad) learnt plastic bag based vertical farming technique and azolla cultivation in their agricultural section. They are practicing vertical farming technique to overcome problem of crop damage by stray cattle's in their schools.
- 3) 3D printing workshops – 20 students from 9th standard from New English School, Dhamari (Dist-Pune) participated in the workshop to print various science models while learning 3D printing technique.
- 4) Development Partner Meet : Yogesh, Ranajeet and Sachin attended 'Development partner meet' organized by 'Praj Foundation' at Praj Tower, Hinjawadi, Pune on 17th Dec. We have presented impact of various projects supported by 'Praj foundation' during past 8-9 years. It was good opportunity to interact with other partners supported by Praj foundation.



E] Technology development & DIC Update :

- i) DIC student fellows visited Eaton India Innovation centre, Pune on 20th Dec. Students presented their respective project ideas to their R&D team and explained support needed in their project.
- ii) Ms Sonal Shinde participated & presented her project on 'Improvement of soil organic carbon' proposal under DST supported Women Science Scheme- B 'Discussion cum mentoring workshop' at Lucknow on 5th December.

iii) Following training workshop & field demonstrations were conducted for farmers :

- Ranajeet participated in 'Soil health card' distribution program at Dhamari village on 5th Dec. He guided farmers on soil health management, improvement of organic carbon and POP for onion cultivation. Program was organized by agricultural department on the occasion of 'World Soil Health Day'.
- Training workshop on 'dairy fodder management' was conducted for tribal farmers from Pait region (Rajgurunagar block) on 20th Dec. Training was organized by Medicinal Plant Cultivation & Conservation Trust (MPCCT). Training was attended by 18 farmers & DBRT students to learn fodder management practices, advanced fodder management techniques.
- Ganesh conducted field demonstration training workshop for dairy farmers at Kude village on 28th December.

iv) Our Technology dissemination partner Mrs.Ujwala Gosavi felicitated with prestigious 'Ramabai Joshi Women Entrepreneurship' award for 'Rice De-husking machine' technology. Mrs.Ujwala is owner of Climber Enviro Solutions (Katraj, Pune). This award was given by Maratha Chamber of Commerce & Agriculture (Pune) for remarkable achievement in the field of industry & entrepreneurship.

v) Entrepreneurship News: Two success stories were published in Agrowon daily in December. Story of Mr.Ashok Joshi -- 'Nachani laddoo' making entrepreneur based at Bhimashankar on 9th December Story of indigenous rice cultivation & brown rice production by Bhimashankar Farmers Producer Society, Wada, Rajgurunagar on 23rd December.

Mrs Ramabai Joshi award for women entrepreneurs



Ujwala Gosavi, proprietor, Climber Systems

DESIGNING THE RICE DE-HUSKING MACHINE

- The machine makes brown rice through cold milling process without increasing the temperature and thus, preserving the nutrients.
- The machine minimises the laborious work of women who make brown rice by the hand-pounding method.
- The machine can be operated on solar power in remote areas and has low maintenance cost.

F] DIY Lab, Wiki & Digital Textile lab :

- 'Titalee' project <https://www.instagram.com/projecttitlee/> Harshada conducted 2 days training program on 2ND & 3RD Dec @ Dattwad village in Taluka shirol, Sangali. Self help group women were trained on making of soft toys from recycled waste cloth. Harshada is helping this SHG group to start their enterprise based on recycling cotton waste.
- Batch of 7 girl students joined 'web publication' course to learn basic of computer aided designing, web-publication and Wiki editing skills.
- 22 books from Rajgurunagar library were scanned, converted to OCR and published on wiki platform.
- Do-It-Yourself (DIY) lab : Students from Seven school used DIY lab to make their projects.
- 40 students from various municipal schools attended sessions on designing & fabrication of 'automated water vending' machine at DIY lab.
- A review meeting of Wikipedia work was held with Mr.Titto and Mr.Subodh Kulkarni on CIS-A2K on 26th and 27th Dec. A MOU was signed between CIS-A2K and Vigyan Ashram on 27th Dec to create online content on Wikipedia, digitalization of old content, training rural girls in wiki movement etc.



G] Tribute to Mr.Sunil Kulkarni

Vigyan Ashram's management committee member Mr.Sunil Kulkarni passed away on 18th Dec 2020. He was first employee of Vigyan Ashram and joined VA on 1st Jan 1983. He left VA as a staff member after four years of service. But his association with VA continued till the end. He was agriculture graduate and helped us immensely in shaping our agricultural activities. We will remember him for his contribution to Vigyan Ashram's work. May his soul Rest in Peace !
सुनिल कुलकर्णी यांना विज्ञान आश्रम परिवारातर्फे भावपूर्ण श्रद्धांजली !



H] Other tit-bit –

- i) Students at Pabal campus enjoyed Christmas celebration. They have made Christmas tree on 25th Dec. Students also observed annular solar eclipse (Suryagrahan) on 26th December.
- ii) Yogesh gave talk on 19th Dec at C.T.Bora College on new technology based opportunities in rural areas.
- iii) Senior Manager from Eaton Foundation MR.Kapoor visited Vigyan Ashram on 3rd Dec.
- iv) Team of 15 members of IIT Pawai Alumni visited Pabal campus with Mr.Ashok Kalbag on 28th December to study various project & activities.

- v) Students MVPS College of Architecture (DIC Nasik) visited Pabal campus to study DIC project on 18th December.
- vi) We have installed Vyapar software developed by a Startup on trial basis to keep record of community services done by various section.
- vii) Ms Supriya Kadam resigned from services of Vigyan Ashram w.e.f from 27th Dec for better prospects. She had worked in various dept viz. Fab Lab, Fab academy, DIY Lab, DIC and as a DST core support staff. We wish her best for future endeavours.
- viii) Donation : Ms.Alka Hingorani , Mr.Shrirang Deshingkar. We are thankful for their continuous support to the needy students at Vigyan ashram.
- ix) We have received 40 old bicycles on 10th Dec as donation from Mr.Barsude kaka (Sun Empire society, Pune) and Mr.Tamhane (Swami Vivekanand Jeevan Jyot Sanstha, Pune). They have also donated funds to repair the bicycle. We have repaired 18 bicycles. It became very useful for mobility of students and for exercise.
- x) Weather record – Rainfall of the month -00 mm mm (Total – 945.28 mm) ,Max temp-37.00 °C, Min Temp – 14.00 °C , Humidity – 91 % , Water height in well – 6.87 Mtr.
- xi) Energy consumption record- Electricity unit – III Phase -1118 units , I Phase Export- 139 units, Import- 871 units. Quality of power : Number of interruptions :83, Normal voltage : 83.64% No supply : 3.90 % , low voltage : 12.45%, No data: 0 %.
- xii) Biogas consumption – Dung used- 00 Kg, Gas produced- NIL xii) Two wheeler – 991 Km, petrol consumption – NA
- xiii) www.dstattara.org – 1232 (New visitor –1068 Repeated- 164) , www.vigyanashram.com – 1797 (New visitor – 1440 Repeated-357)



Visit of Mr.Kapoor (Eaton Foundation) to VA

Data Report:

<https://drive.google.com/open?id=1HK8TWnpl9odlZrCOmp96l4O6k1s77Low>

(Work of VA is supported by Asha for Education, Praj foundation, EATON Foundation, L & T infotech, SPA Education Foundation, Megger (I) Pvt Ltd, INDUSA Endowment, Govt of Chhattisgarh, Savitribai Phule Pune University, Suzlon foundation, Dept of Science & Technology, and many individuals and foundations)

Photo Gallery:



Farmers Training at Kadu Village



Solar Eclipse 25th Dec



MOU with CIS-A2K to develop Wiki content



ATL teachers training workshop on 7th and 8th Dec



DBRT : Visit to Bajaj Electricals



3D printed job by IBT students in Kendur school.



DBRT : Electrical wiring @ Soil Lab



We have started renovation work of DIY Lab with the support of SPA Education Foundation

For Regular update : www.facebook.com/vigyan.ashram.pabal ;

Our Websites : www.vigyanashram.blog ; www.vigyanashram.com ; www.learningwhiledoing.in ;
www.dsttara.in