

Vigyan Ashram Status Report

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- Fab Asia Network (FAN2) conference @ Taipei-Taiwan.
- NIOS DBRT final board examination - 56 students appeared for the examination.
- Arduino workshop @ DIY lab Pune.

A] IBT Master Trainers training

'Train the Trainer (TOT)' training of senior IBT instructors from Dantewada and Bijapur Schools was conducted from 21st - 30th May. Twenty selected IBT instructors attended the training. They were introduced with new technologies from Engineering, Energy, Agriculture and food processing sectors. Special emphasis was given on improving project planning & recording. They were trained in using design thinking methodology while conducting IBT practicals. These instructors will act as *master trainers* in the forthcoming instructor training programmes for instructors in Chhattisgarh & Odisha.



Master training program of IBT instructors Dantewada & Bijapur Schools of Chhattisgarh state.



Instructors learning skills & technologies during training program

B] FAN2 conference @ Taipei Taiwan

Yogesh participated in the Fab-Asia-Network (FAN)-2 conference on the theme 'Make The Future'. Yogesh conducted hands on workshop on "Social Design in Rural Areas" organized by "Association of Digital Culture- Taiwan" at Tainan from 20th to 23rd May. There were 20 participants from varied background like doctors, free lancers, university students etc. Identifying and defining problems in rural areas, idea generation, making prototypes using digital tools and demonstration was carried out in the workshop. Yogesh also gave talk about Vigyan Ashram educational philosophy in International forum on 'Maker Movement in Asia' on 24th May at Tainan.



FAN2
TAIWAN FabLab Asia Network
2nd Conference





FAN2 was held from 26th to 28th May at Taipei. There were 120 participants from different Asian Fab-Labs. Yogesh conducted workshop on the theme “Appropriate technology for Developing Countries” on 27th May. Yogesh also took this opportunity to learn new digital fabrication tools and also visit some Maker places in Taiwan. It is decided that FAN3 will be held in India. Vigyan Ashram will be the host of the conference along with RiDL Fab Lab and other Fab Labs in India.

C] Arduino Hackathon :

Arduino workshop for school children was organized on 16th & 17th May at DIY lab Pune. Total 12 students participated in this workshop. They learned basics of Arduino, programming and built project like auto door opener, Water tank alarm system, auto parking system etc. Volunteers from Pune Maker group were invited as resource persons for this workshop. We are learning these new techniques to introduce microcontrollers etc in IBT in schools and also DBRT course.



C] Entrepreneurship Accelerator updates

- VA alumni, Ganesh Powar started metal fabrication workshop with the loan of Rs.1.5 Lac from Rang-De at Pargaon – Shingave village. Ganesh completed metal-fabrication short-term training course and Praj fellowship programme. His metal fabrication shop is equipped with lathe and hydraulic press facility.
- DBRT alumni Anil Darekar (also Praj fellow) took poultry on rent and started poultry of 10000 birds.
- Training on vinyl & radium cutting @ fab lab led Mr.Waghole to start radium cutting business in Pabal village. Mr.Sandip Jadhav started radium cutting shop at Baramati.

D] Technology development updates

- We have made few major changes in Rice De-husking machine as per the customer's feedback. Improvements are made in blower assembly (separator), rubber plate's assembly

and hopper mounting mechanism. Now new model is more compact and easy for repair & maintain.

- “Sakshi–AndraPradesh” local newspaper from Telengana/Andra published details of Rice De-husking technology on their 19th May edition (http://epaper.sakshi.com/apnews/Hyderabad-Main_Edition/19052015/Details.aspx?id=2768527&boxid=25968686). We are getting lot of enquiries and feedbacks from these states for rice de-husking technology.
- Fabrication work started for developing rope-washer pump for fetching water from open well. Idea is to have low cost, easy to operate pump for fetching water, especially in tribal belt where electricity is not available. We are developing & fabricating this pump against 5 pumps order from BAIF (Pune). They will be installed in Jawhar block.
- Trials conducted for new design of ‘Low cost terrace dryer’. It can be used on terrace. It uses Bamboo frame and UV stabilized film cover. Trials were taken for drying potato chips. Preliminary comparative study with open sun drying gives very positive results.
- Mr.Yashvant Jagdale (Subject matter specialist – KVK Baramti) visited campus on 2nd May to know more about aquaponics experiment.
- Small article on “Aquaponics farming” and “Reducing water evaporation from farm tank” experimentation were published by “SAKAL” Marathi newspaper on 23rd May.
- Mr.Vijay Kambe visited VA on 5th May and guided us on our solar charging project and DC to DC converter to charge laptop.
- Updates on technology development work on www.vigyanashram.wordpress.com



E] DBRT Updates

i) National Institute Open Schooling (NIOS) board examination was conducted for DBRT 2013-14 and 2012-13 batches at Pabal campus from 6th to 13th May. Total of 56 students appeared for practical and theory examinations.

ii) Following are important highlights of DBRT students –

- Agriculture student Prathamesh Nawale carried out soil analysis of 79 soil samples as part of his project work. He generated community service of worth Rs.7900. These soil samples were collected by M/s Srinivas Service Trust (SST, Shirur) from nearby villages.

- As a project work, workshop students Bishnu & Mohan fabricated onion-potato storage bin for kitchen storage. Other students completed shed fabrication work of kitchen plate washing area. Total community service generated by workshop department in this month was approx Rs.63000.00.

- Energy & Environment students learnt motor re-winding work along with IBT instructors. They repaired 3 fans (2 tables and 1 ceiling fans) as part of this training.



- Food Lab had given community service of Rs.7200/-. It comprises of groundnut chikki (5 kg), jamun processing to make syrup (2. 30 kg), immature mango processing to make mango pickle (3. 50 kg), amla processing to make amlakadhi(4. 250 kg), ginger processing to make ginger powder (5.10 kg).
- New poultry batch of 200 birds started on 23rd May.



- iii) Sachin and Vishal attended annual review meeting of TATA motors foundation on 16th May and given presentation about progress of DBRT scholarship program
- iv) Gauri cow gave birth to female calf on 4th May. It is her 8th lactation on campus.
- v) Balarampur Livelihood college :

- Solar Lamp repairing camp was conducted at Jokapat in which 8 lamps were repaired out of 12.
- Training on lather bag manufacturing for 4th Batch was completed in this month. This batch was focused on marketing.Co-operative was registered which named “Unnati Bahuddeshiy Sahakari Samiti”. It purchased 200kg of cloths from Surat. New shop was open by the co-operative “Unnati” in balrampur. This shop will run by 2 physically challenge candidates.
- Pawan conducted Electronics hobby Summer camp in Balarampur for students of 8th ,9th & 10th class.

F] IBT Update

- i) We have submitted letter to Educational Minister regarding various issues related to IBT. It got permission under NSQF but they change the title of the course as ‘Multiskill foundation course – MSFC’. We have prepared sample question paper for MSFC examination, also updated tools list as per L1 & L2 syllabus.
- ii) Team from IPE Global Pvt. Ltd visited Pabal campus on 2nd May for due diligence. We are in final stages of signing MOU to start IBT program in 12 Ekalavya Model Residential Schools (EMRS) in Odisha under RMSA scheme.
- iii) Farzan created sample blog for IBT School in Pabal. <http://sbvmibt.blogspot.in/> We are expecting other schools to make their blog in coming year and post their documents online.
- iv) Mr.Ronaldo of HKF-WCT visited Pench schools from 6th – 8th May to take review of the program.
- v) IBT team visited KVK Baramati and ARTI Phaltan as study tour on 9th May. They learnt many new technologies to be adopted for IBT schools and include in Instructor training program.
- vi) Ranjeet vvisited DVET office Mumbai on 22nd May to discuss progress on IBT-MFSC program, L1/L2 syllabus revision, book printing and new Schools recognition issues.

G] Other tit-bits-

- Mr.Prashant Rane resigned from the job.
- We have receipt imported shipment from Fab foundation, USA to carry out ‘Make a machine’ assignment. It consists of electronic boards and different motors.
- Yogesh attended vision document 2020 for tribal community meeting on 3rd May.
- Weather record – rainfall of the month -10.68 mm ,Max temp-38.66 C, Min Temp – 26.26 C , Humidity –44 % , Water height in well – 6.41 M .
- Energy consumption record- Electricity unit – III Phase -954, I Phase -862, Electricity Quality- .Number of interruption : 142, No supply : 55.42hrs, Normal voltage : 91.7%, No supply : 7.5% , Low voltage : 0.67%, High Voltage : 0.14%

- vi) Diesel consumption for generator- 0 lit, Two wheeler running – 417 Km.
- vii) Biogas consumption – Dung used- 1093 Kg, Gas produced- 1654 Ft3
- viii) Total visitors Visitor's VA campus – 115, Investor from Rangde visited on 13th May, www.vigyanashram.com – 2123 (New visitor- 1703, Repeated viewers- 420) , DST (technology) blog- 2193, www.learningwhiledoing.in- 1200 (New visitor- 1132, Repeated viewers- 67), www.dsttara.org–446(New visitor- 346, Repeated viewers- 100)

Data Report Link- <https://drive.google.com/file/d/0B3-4RfsZ2K2OY2F3bINfa2IOYW8/view>

Photo gallery :



Pre-Fabricated Toilet for new kitchen



NIOS practical examination of DBRT Students



Bag making training @ Balarampur, Chhattisgarh



Arduino micro-controller training workshop @ DIY, Pune



Workshop students carrying rope washer pump for trial



DBRT students repairing home appliances

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