

Vigyan Ashram Status Report

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A] Tribute to Amma



Amma of Vigyan Ashram, Mrs. Mira Srinath Kalbag passed away on 18th March due to old age. She was 87 years old. She was Amma, guide and mentor not only for VA team but for women in Pabal village. She was conducting classes for girl's students till 2003. She was regularly practicing Vipassana. Dr. Kalbag put foundation of educational & technological programs of Vigyan Ashram. Amma patiently cultivated value systems in Vigyan Ashram's work. Amma's body was donated as per her last wish.

A condolence meeting was held at ashram on 26th

March at ashram. Brief biography of Amma is on : <https://goo.gl/eF9Wjd> ; Her interview video is available on <https://www.youtube.com/watch?v=22DkHrF5qSk&feature=youtu.be>

B] VA @ Festival of Innovation @ Rashtrapati Bhavan , New Delhi

Vigyan ashram participated in 3rd Festival of Innovation-2017 (FOIN) during 8th to 10th March at Rashtrapati Bhavan, New Delhi. FOIN is annual exhibition organised by national Innovation Foundation & office of President of India with aim of exhibiting & promoting innovative technologies developed by educational institutes and grass-root innovators. VA participated in the exhibition as a part of Design Innovation Centre (DIC) team. DIC student Shubham & Suhas represented



DIC team at Rashtrapati Bhavan

work done under DIC. We have exhibited prototype of 'Dome dryer' in the exhibition. Team also participated in the round table discussion on DIC program. Suhas and Shubham

also visited AKGEC Fab lab and NSIT Fab Lab during this visit.

C] DBRT Update:

DBRT 2016-17 entered into last quarter of their course. Following are some of the highlights –

- DBRT workshop students learned tile fixing work while laying tiles in technology park premises. They also fabricated hostel cupboards, beds and vegetable rack for food processing lab. They earned Rs.19806 as community service through these works.
- M/S Precision Technical in Pune donated their used fall ceiling material. Mr. Lele (Expert in falls ceiling) volunteered to help us in using this material for our lab. We have completed Falls ceiling for computer & DIC lab. DBRT students learnt this skill from professionals.



Computer Lab Ceiling

- Electrical section installed new inverter (5KVA) for computer lab. They also re-winded & installed 1.5hp water pump for aquaponics system.
- Poultry training was conducted for Pasli farmers on 6th and 7th March. A poultry batch was started simultaneously at Pabal and Pasli. Unfortunately due to some infectious disease, more than 50% birds died within a week. We have sent the dead birds for post-mortem and lab analysis.



- Bakery training course updates – 22 girls from Chattisgarh are undergoing Bakery training. They practiced skills in making of whole wheat breads, toast, cookies etc. Bread produced is supplied to kitchen for breakfast. Mrs. Shobhana Bijur & Amita Nagarkatti were invited as expert trainer on 15th March to conduct training session of cake & Chocolate making. Students learned different types of cakes (sponge, fruit, cupcake, muffins cakes), types of icing and Chocolate making. Students also visited bakery establishments in Pune on 29th March.

D] IBT Updates: –

a) IBT Maharashtra -

- Teachers training workshop was conducted at Dyanada vidyamandir, Narayangaon on 25th March. Objective of the workshop was to introduce use of computers in online documentation of IBT activities. 11 teachers from 4 IL&FS supported Schools participated in the workshop & prepared blog for their school.
- Students from Adarsha prashala, Ghatnandre, Nagaj, Schools made solar lamps. They earned community service of Rs.5800 while selling these lamps & food products in their School canteen.
- Students of Shri.Hanuman New English School, Valsang fabricated a cart (hathgadi) against order from grape farmer. It was sold @ Rs.6000 with margin of 30 % as fabrication charges.
- Students of Sadhana Vidyalaya, Shanimandal (Nandurbar) conducted animal check-up camp in village with the support of animal husbandry department. Students checked & treated 11 animals in the camp as community service activity while learning basic veterinary practices like controlling parasites, de-worming etc.
- Students of engineering section in Kulswami Khanderao Vidyalaya, Hiware (Pune) built vermicomposting bed while learning basic masonry skills. It will be used in agriculture section to produce 2.5 ton vermicompost.
- In Home & Health section of New English School, Dhamari , students from 8th & 9th Standard prepared Nankatai (2kg), Chikki (3 kg), Popcorn , Cake etc while earning community service of Rs.1650.00
- IL&FS CSR team visited 4 IBT Schools @ Gawadewadi , Narayangaon , Bori & Hivre villages to study impact of IBT program and made short documentary film.
- We have conducted 13 activities in 4 schools under ShikShan Pandhari project in collaboration with MKCL. Total 675 students participated in the activities. We have prepared Open Education Resources (OER) on these 13 activities.



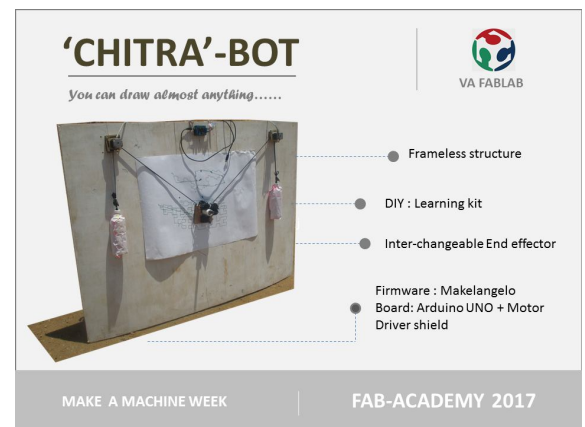
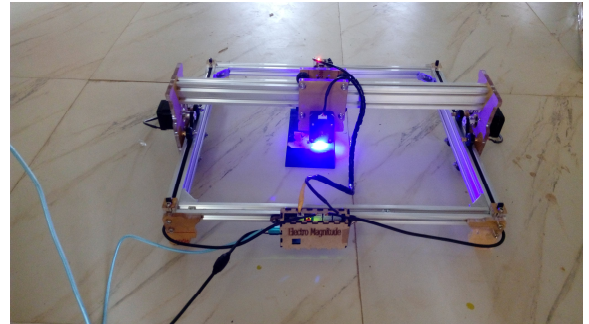
IBT committee meeting

b) IBT Chhattisgarh –

- We are upgrading infrastructure of 4 IBT Schools to make them 'Model IBT School'.
- We are documenting and preparing a booklet on 'Case studies of IBT activities in Bijapur & Dantewada'. Success stories are collected from field staff & they are getting compiled.

E] Update - Technology development & Design innovation centre

- Supriya successfully fabricated & delivered 'laser engraver' machine to Mr.Prakash Gandhal. This laser engraver is capable of cutting 2mm thick paper/card board & engraving non-metallic material. Mr.Prakash is in decorative items & keychain business. He placed the order for the machine to make personalized keychain(wooden, plastic), pen, other decorative items making.
- Fab-Academy students completed their 'Make-a-machine' project. They made two machines; one is Chitra-Bot -a machine to paint the walls of the building <https://goo.gl/6qNsaU> . Another is Wood carving CNC machine <https://goo.gl/XxvQzc> .
- DIC fellow Mrs.Suvarna tested first working prototype of Smart Phone based 'Environment sensors kit'. It is small unit fitted with 5 sensors (Temp, humidity, light, carbon dioxide and carbon monoxide) that can be connected to any smart phone using Bluetooth. Suvarna developed apps which will display real time reading of all these parameter.
- DIC students Meghraj & Neha attended soil microbiology theory & practical classes at botany department in Pune University during 10th February to 2nd March to learn advanced techniques in soil microbiology. They have also started a trial of Vesicular Arbuscular Mycorrhiza (VAM) & Bacillus Sp. on growth on summer onion crop as part of their assignment.
- Following guest lectures were organized for DIC/Fab Academy students – 6th March 2017 Mr. M.S. Bhagwat (RFID technology), On 20th March 2017- Mr.Sujay (Embedded programming), On 21st March 2017 Dr. Subir Bahaduri (python programming), On 30th March 2017 Dr. Narendra savant (Machine design).
- We have entered into MOU with Greeny. They are managing garbage collection & processing unit for Saswad Municipal Corporation. We will be providing technical support in garbage recycling as a part of technology development program.



Display of sensor kit on mobile apps

F] Entrepreneurship accelerator program –

- Pawan participated in Rangde-Impact Confluence 2017 @ Bangalore during 16 & 17th March. This was annual conference of partner organizations & social investors.
- Mr. Deepak Ambads Belsar, started his web designing and online services startups 'Dmates' at shirur (www.dmates.com). At Present he is providing web designing, CCTV & online attendance installation service through his new venture.
- Mr. Sagar Gulab Wagh has started 'Sagar Print Arts' at Alephate Tal- Junnar Dist- Pune. He is providing commercial printing service with facility of off-set, digital paper & flex printing in area.



G] Other tit-bit –

- Ranajeet visited Reliance Industries Limited (RIL), Nagothane campus on 10th March, to deliver talk on 'technology based rural enterprise opportunities for woman SHG's'.
- VA celebrated Woman's days 8th March. Now we have 32 residential and 13 non-residential girls studying at ashram. Total strength of girl's students in ashram is 45 against 47 nos of DBRT boys! Hope we will see more women entrepreneurs and innovators in coming years.
- We have made video on Earthing testing equipment's. They are available on u-tube. <https://youtu.be/7b1UvNbfyxM> ; <https://youtu.be/7WvoKohRTXY>
- M/S Megger and M/S SPA Education foundation sanctioned our project for 2017-18.
- Mr. Yamada from Japan International Cooperation Agency (JICA) Bhutan Office visited VA on 22nd March. They are planning to setup a Fab Lab in Bhutan. He wrote an article on his visit <https://goo.gl/IOS2NY>
- Yogesh was Chief Guest for the prize distribution ceremony of Abinitio-2017 at Govt. College of Engg. and Research, Avasari (Khurd) held on 18th March 2017.
- SBI life insurance (Mumbai), donated 10 old desktop computers and 1 server CPU to Vigyan ashram. These computers are installed and will be used for students training.
- In an unfortunate incident our DBRT student Ms Guddi committed suicide in hostel on 23rd night due to personal reason.
- Weather record – Rainfall – 0 mm (Total 333.18 mm) ,Max temp-33.74°C, Min Temp – 15.12°C , Humidity – 43.09 % , Water height in well – 7.3 Meter.



- X. Energy consumption record- Electricity unit – III Phase - 1039, I Phase - 873. Quality of power : Number of interruptions : 118, Normal voltage : 71.57 %, No supply : 10.11 %, low voltage :0.68 %, high voltage : 0.57 % , Data not recorded :17.07 %
- XI. Biogas consumption – Dung used-832 Kg, Gas produced- 21.80 M3.
- XII. Total visitors to www.vigyanashram.com –1311 (New visitor – 869 Repeated-442), www.dsttara.in : Total Visitors: 579 (New- 541 , Repeated –38)

Data Report:

https://drive.google.com/open?id=0B_Jk2xLqAXjcWTRhVjJPLXlpaVk

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Photo Gallery:



Agriculture trial : Onion



Terrace garden on hostel roof



Women's Day celebration at VA



Status of construction

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