Introduction to Basic Technology (IBT)

(Multi skill Foundation Course under NSQF)

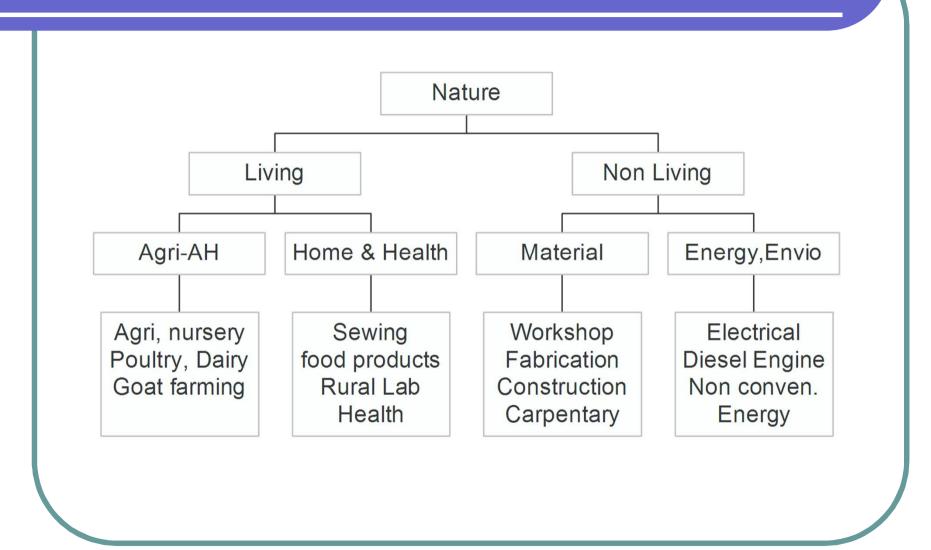
Pre-vocational Program in Secondary Schools

Vigyan Ashram

At Post Pabal Dist Pune 412403

www.vigyanashram.com

IBT - Syllabus



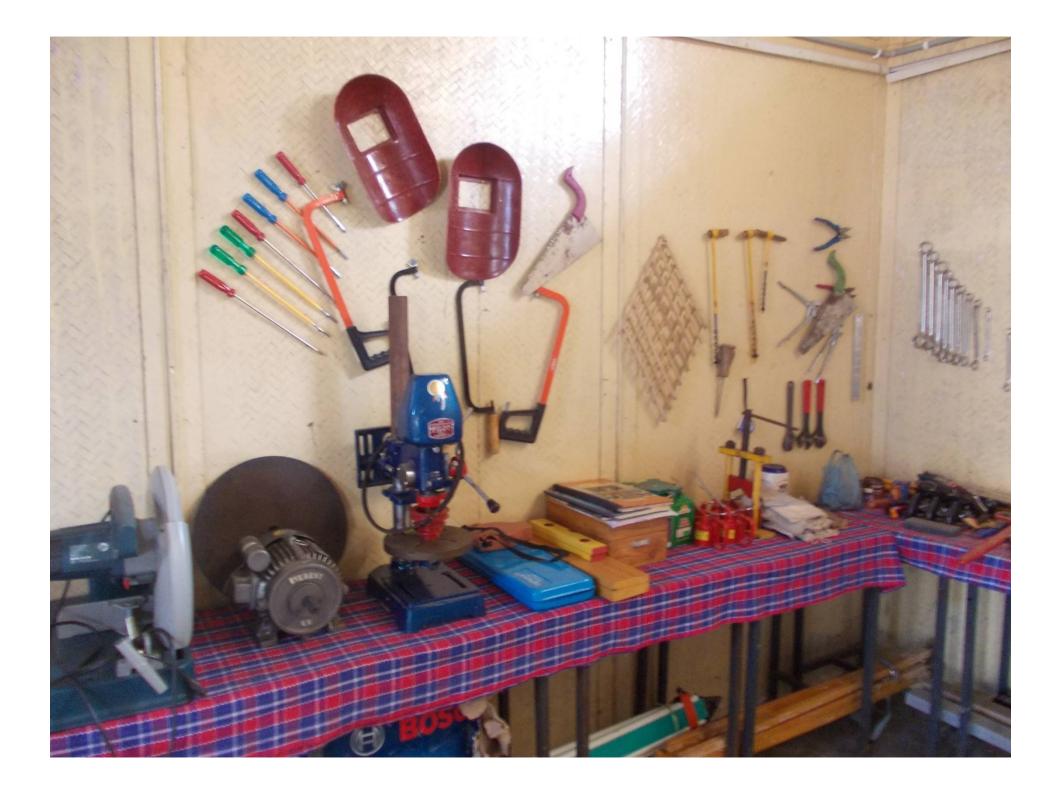
Basic Principles of the program

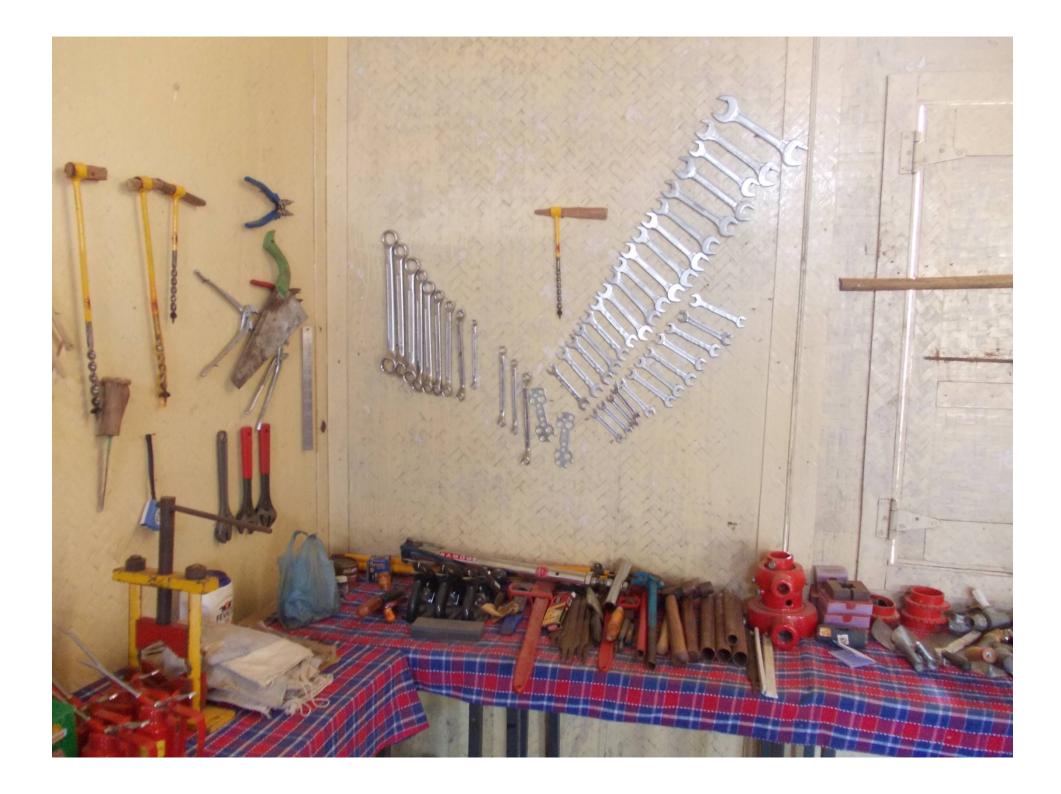
- 1: Learning While Doing Students will learn in real life environment by actually doing things by hand.
- 2 : Multiskill training Many problems at ground level need interdisciplinary approach. Student will learn multiple skills simultaneously.(i.e all areas of 'Nature' as shown before.
- 3 : School must be a production center Students will provide various services to the community. Community will pay for the services.
- 4 : Instructor must be an entrepreneur a person having demonstrable skills and preferably an entrepreneur in village will work as an instructor.

Technologies that will be taught to students

AGRICULTURE -	ENERGY -	Water testing
ANIMAL HUSBANDRY	ENVIRONMENT	Healthy diet, Soya milk,
Drip irrigation, Sprinkler,	Solar cooker, LED lighting	Blood testing, Medicinal
Vermi composting, Vemi	,Biogas, Soak pit,	plant cultivation
wash, Humidity chamber,	Watershed, Smokeless	ENGINEERING
AQUA Portal, Nursery	stove(Check dam	Ferro cement,
technique, Azolla culture,	construction),	Bamboo treatment,
Weather SMS, Seedling	Earthing, Inverter	Different Agriculture tools
Tray, Vaccination	Computer applications	Ventilation – Low cost
Poultry, Age estimation,	Plain table survey GPS,	housing, Toilets,
Rice cultivation, Crop	Soil testing	Pedal power, Fabrication
using	Mosquito control (Gappi	Plumbing,
Mulching, Silage	Fish breeding),Making	Construction
Feed concentrate for	phenyl, liquid soap and	
animals	selling	
Pest control	FOOD PROCESSING	
Soil testing	Solar drying, Food	
	preservation,	
	Drying of vegetables	

- •School will have min tools and equipments
- •One day per week i.e 10 periods per week for hands on activities.
- Local youth with skills will be trained as instructors.
- Science / Mathematics teacher will take theory and principals behind the activities.





- State Education Dept recognized this as a pre-vocational subject (SSC board code - V1) and conducts the examination.
- The activities selected are linked to the curricular areas. Viz. concept in science, mathematics, geography etc. Therefore education is linked to daily life.

Services given by students



85 types of services are given by IBT schools as per of their learning

Fabrication

Vaccination

Pest control

Food products

Maintenance of sanitation and water supply

Map, contour making, plain table survey

Electric motor, hand pump repair, LED lights

Construction, plumbing

Solar installation and maintenance

Internet based services Etc...

- Presently implemented in 122 + schools (2016) in Maharashtra, Chattisgarh, Odisha, Karnataka
- Under Rashtriya Madhyamik Shiksha Abhiyan, Govt of Maharashtra introduced IBT-MSFC in municipal schools.
- Many agencies adopted the program. It shows its replicability.

Results of the program

- Reduction in school dropouts
- Increase in SSC results
- Number of students going for technical training and vocational education increased substantially.
- average per annum services worth of Rs.40,000 pa. given by IBT school.
- Many new technology introduced in the villages through school.

Role of Vigyan Ashram

- Technical support in starting the program.
- Instructor training, content, activity planning at school level.
- Mentoring and monitoring hand holding the program during entire duration of the project.

School responsibility

Day to day administration of the program.

 Making available raw material and periods in school timetable.

Instructor appointment and their honorarium disbursement.

Approximate Per school cost

- Capital (Tools) :- Rs.1 lacs
- Capital (Room and agri land):- Existing
- Recurring (Honororium of instructor + material cost) = Rs.3 lac per annum
- VA cost = Rs.50,000 per school (8 visits to schools, two training program at Pabal for 4 instructors* of 6 days each,training materials, monitoring etc.)

^{*} Instructor must have some basic technical skills. Else need to give 1 month training program at Pabal. Cost for such training will be extra.

contact

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