

# **Introduction to Basic Technology (IBT)**

**(Multi skill Foundation Course under NSQF)**

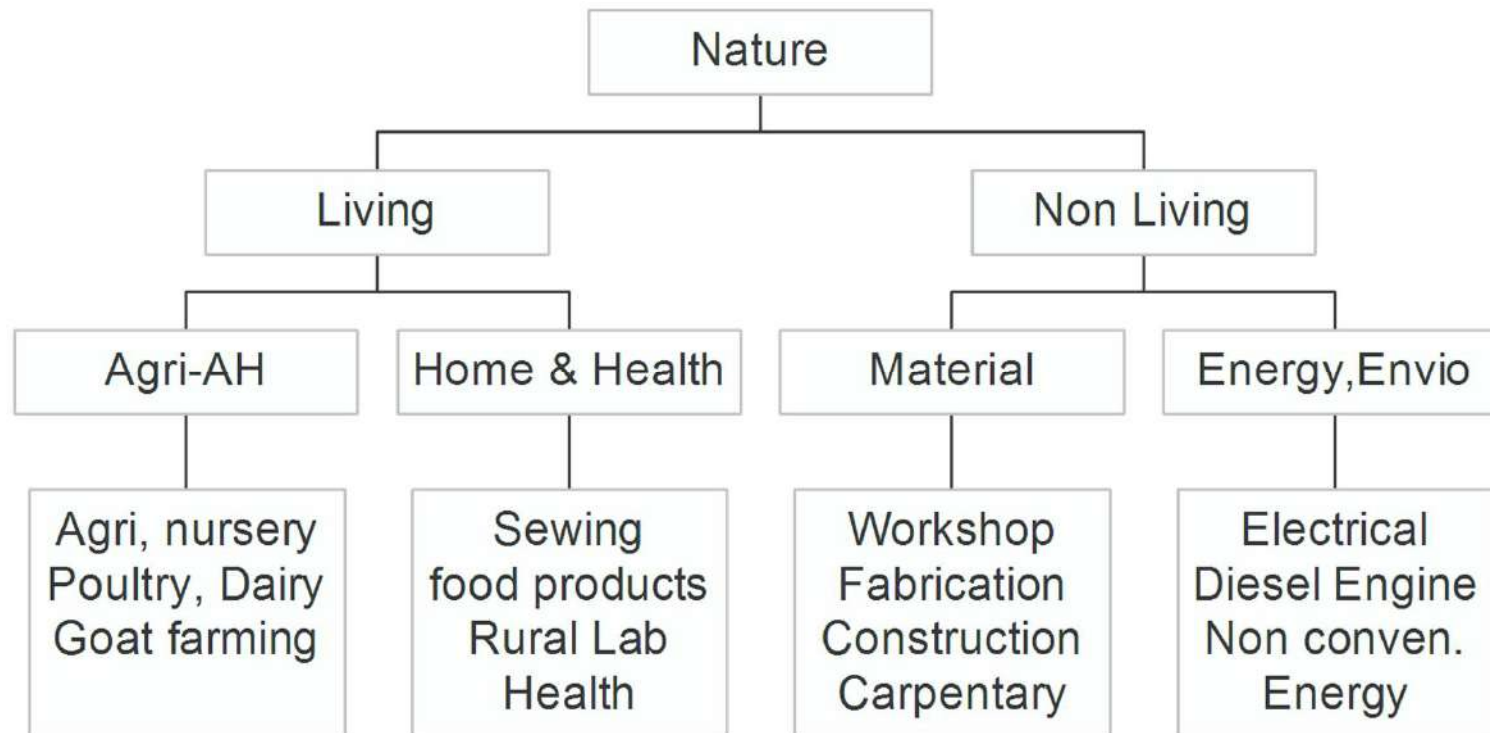
Pre-vocational Program in Secondary Schools

**Vigyan Ashram**

**At Post Pabal Dist Pune 412403**

**[www.vigyanashram.com](http://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

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

- 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 (Honorarium 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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