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2nd Edition



VOCATIONAL EDUCATION



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Training of Horticulture students at ICAR Complex

A two day Training Programme was held at Indian Council of Agriculture Research (ICAR), Tadong, Gangtok, for horticulture students. A 32 students took part in the training under the guidance of faculties Mr. R. Helim and Mr. Arpan Chettri of Assam Lingzey GSSS.

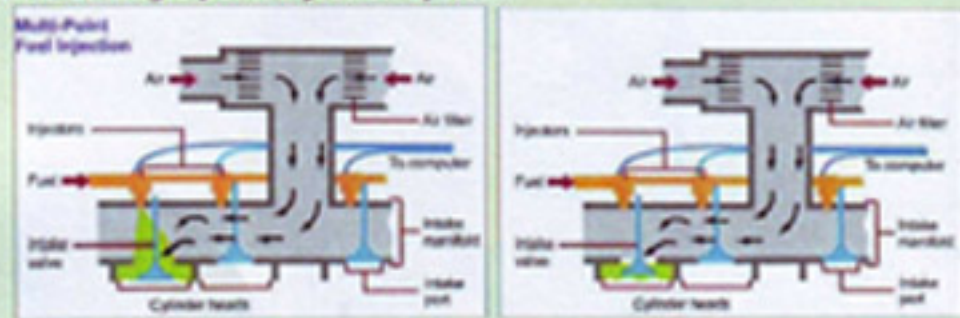


Participants on training at ICAR

The resource persons from ICAR gave hands on training on "Propagation of Horticultural Crops" and "Value Addition and Processing of Horticultural Crops".

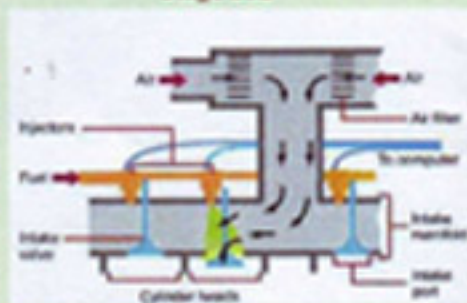
Multi Point Fuel Injection System

M.P.F.I. means Multi Point Fuel Injection system. In this system each cylinder has number of injectors to supply/spray fuel in the cylinders as compared to one injector located centrally to supply/spray fuel in case of single point injection system.



Stage 1

Stage 2&3



Stage 4

Advantage of M. P. F. I.:

- More uniform A/F mixture will be supplied to each cylinder; hence the difference in power developed in each cylinder is minimum. Vibration from the engine equipped with this system is less; due to this the life of engine components is improved.
- No need to crank the engine twice or thrice in case of cold starting as happens in the carburetor system.
- Immediate response, in case of sudden acceleration / deceleration.
- Since the engine is controlled by ECM* (Engine Control Module), more accurate amount of A/F mixture will be supplied and as a result complete combustion will take place. This leads to effective utilization of fuel supplied and hence low emission level.
- The mileage of the vehicle will be improved.

ECM (Engine Control Module) and its function:

The function of ECM is to receive signal from various sensors, manipulate the signals and send control signals to the actuators. Sensors; Sensing different parameters (Temperature, Pressure,

Engine Speed etc.) of the engine and send signal to ECM. Actuators; Receives control signal from ECM and does function accordingly (ISCA, PCSV, Injectors, Power Transistor etc.).
Case I: If ECM fails to send control signal to all actuators then the engine won't get started.
Case II: If ECM fails to service from all sensors then also the engine won't get started.

*Bandy Singh, faculty (Automobile Engg.) Yangang
 (A member of the vocational faculties of Automobile who attended workshop at Pant, organized by PSSCIVE, Bhopal)*

C.B.S.E. Result (Voc.), 2008 at a glance

Total number of students appeared	: 449
Total number of students passed	: 395
Total number of compartment students	: 49
Failed	: 04
Pass percentage	: 87.97%

Students' Strength in Vocational Stream in 2008 for Class XI

This year the enrolment in Vocational streams has been the highest since the inception of Vocational Education Project in Sikkim. The increase in the number is testament to the increasing interest of the students towards the vocational education and reflects on the gradual acceptance of the people on the importance of the vocational education in the state. A brief summary on the same is as under:

Hort.	Dairying	IT	HM	OM	Auto Engg.	TQM	Poultry	Total
253	64	202	70	28	40	56	5	718

In-Service Training for IT Faculties on Skill up gradation Program

A Two-Day In-Service training program was conducted from 7th and 8th July, 2008 at Gangtok for the Vocational Teaching Staff (IT Stream) of different Govt. Sr. Sec. Schools of Sikkim to upgrade their skill.



Faculties at Skill Upgradation Training Programme

Topics covered under the training:

- Recent Teaching Methodologies in IT,
- General Hardware Faults & Trouble shooting and their solutions,
- Course Coverage and Milestone Discussions for different papers,
- Topic wise doubt clearance related to different papers,
- Up gradation on Excel and Access
- Special session on Adobe Photoshop (Multimedia) by Mr. Malay Purkait.

The training proved to be very beneficial to the faculties and helped in their up gradation of skill and knowledge. More than so, it was quite beneficial to encourage participation in team and exchange of ideas for better transaction of the course to the students.

Vocational Stall at Janta Mela, 2008

A Horticulture Stall was installed at The Janta Mela, Gangtok, in which the faculties of Ranka GSSS (Miss Reshma Chettri and Mr. R. Moirangthem) along with the students of Horticulture stream participated in the day long

event under the guidance and helpful suggestion from the principal Mr. Surajit Bag, Mangalbaria GSSS, coordinated the activities under the event. The products put for exhibition were rose syrup, ginger syrup, mushroom pickle, etc.

The success of the programme can best be summarized in the form what Mr. S. Bag concises- "This Mela proved to be a good platform for us to convey our message regarding progress of Vocational Education in Sikkim to the common people as well as officials of different departments, especially HRDD and political personalities."



Viewers watching the products and equipments at Janta Mela

A Report on PTC at Mangalbaria Govt. Sr. Sec. School

We the faculties and students of Horticulture stream, Mangalbaria GSSS, produced and sold different products like mixed fruit jam (guava, apple), ginger syrup and ginger RTS in our school in between 16th and 30th Sept' 08 as a part of P.T.C (Production-cum-Training Centre) under Vocational streams, Horticulture. The total expenditure incurred in the production of the products was Rs. 437/- only, which was taken from the 'Horticulture fund' collected by the selling of vegetables earlier this year. The products were mainly sold among the school staffs and students. The total amount collected by the selling of these products was Rs. 1,365/-. So, by investing only Rs. 437/- we made a profit of Rs. 928/- which was deposited in the Horticulture Fund. The PTC runs on the revolving method of fund rotation and helps to imbibe in students the confidence and practicalities involved in enterprise running, even though in micro ways of operation. Under PTC the students are encouraged and motivated a lot and some of them are determined to set up such preservation units in future also after completion of the course.

(Surajit Bag, Binita Chettri & Raksha Karki, F/Hort., Mangalbaria GSSS)

Vaccination Programme by Faculties of Dikling GSSS

A One-Day Vaccination Program was organized by Dr. Anitya Barman and Dr. K. Kalita, Faculties of Dairying, Govt. Sr. Sec. School, Dikling, on 12th May' 08 at Duglakha and Pachey Khani, Pakyong, East Sikkim. In the said programme, altogether 48 cattle were vaccinated. The two faculties ensured that the vaccination was done properly and that the students learnt the skill of vaccinating animals with proper precaution and handling.

The programme was a successful one in which the Dept. of Animal Husbandry, Govt. of Sikkim helped immensely as the programme wouldn't have been possible without the help and assistance of Dr. (Mrs.) Angela Pradhan, Veterinary Doctor, Dept of AKLF & VS, Pakyong Govt. of Sikkim.



Faculties demonstrating vaccination