Summer and Winter Trainings: Internships/Projects

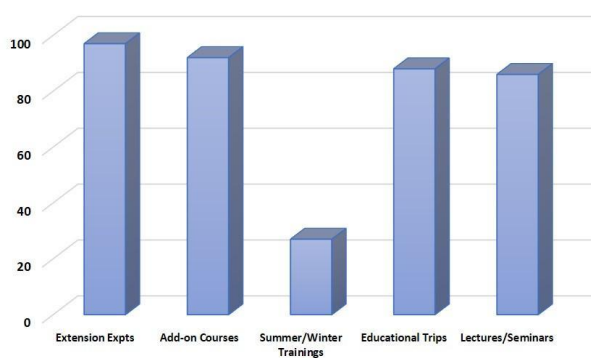| S. No.	Titles of Projects/ Internships from different Departments				Number of Beneficiaries/students from different departments			
	Botany	Chemistry	Physics	Zoology	Botany	Chemistry	Physics	Zoology
1	Isolation of microbes from soil	Project-Spirocyclic synthesis	To measure the shadow length of student height as a function of time and estimate the angle of declination of Sun	Insecticidal activity of botanicals (turmeric powder) against the pulse beetle, *Callosobruchus chinensis*.	24	1	30	1
2	Finding an antagonistic microbe from soil	Project-Heterocyclic synthesis	To estimate the speed of light using Romer's experiment by observation of Jupiter satellite Io with Stellarium software	Repellent activity of common spices against rice weevil, *Sitophilus oryzae*.	24	4	4	2
3	Isolation of Microbes from the oil rich soil for oil degrading microbes.	Internship on scientific writing	Retrograde motion of superior planets as observed from inferior planets using Stellarium software	An observational study on leaf-rolling lepidopterans.	24	5	6	2
4	-	Project-Design, synthesis & characterization of chalcone derivative derivatives and their biological activities.	Plot solar analemma at different latitudes on Earth and other planets at different times during the day using Stellarium.	Study of drawing circles around ants by using less toxic solutions.	-	4	8	2

5	-	Project-Phytochemical extraction from plant source.	Estimate the duration of solar day and sidereal day for different planets including Earth using Stellarium	Test several household and natural solutions for their effectiveness as an ant repellent.	-	3	2	2
6	-	Project-Design of nanocatalyst and its application in waste water treatment.	Study the motion of Halley comet around the Sun and estimate the orbit eccentricity using Stellarium	Behavioral effect of bio-repllents on *Sitophilus oryzae*, and extent of seed damage on different rice varieties.	-	5	1	2
7	-	Project-Pharmacological studies of tribal plants of Kerala	Find the angle of maximum elongation of Mercury and Venus as observed from the Earth and verify Kepler's law using Stellarium	To study cognitive learning and observational learning in *Camponotus*	-	5	6	2
8	-	Reaction Infographics	Conducted Summer training on Scilab programming.	Feeding frequency of parrots and the factors affecting it: Summer season vs winter season	-	4	6	40
9	-	Internship on Insights on hydrogels through Molecular Spectroscopy	Design a Sundial for an observer present at Hindu College.	Study of the life cycle of stored gain pest, pulse beetle, *Callosobruchu schinensis* (L.) on different	-	45	1	10

| 10 | - | Internship on Green perspectives on waste/spent lithium ion batteries | Design altitude measurement device with inclination correction factor applicable in Horizon coordinate system | Study of the pesticidal activity of botanicals (turmeric powder) on pulse beetle, *Callosobruchus chinensis* (L.) reared on different pulses and its implications in pest management. | - | 35 | 1 | 10 |

Student Training and Placements

% Beneficiaries

% Placements
- Higher Studies 65%
- Industry 23%
- Others 12%