

MAITREYI COLLEGE
CENTRE FOR RESEARCH

Summer Internship Programme 2020-21

Duration of Project: Apr 25, 2021 to June 24, 2021

List of Project Proposals approved for Summer Internship Programme 2020-21

Code	Title of proposal	Dept.	Mentors
1	Dynamics of Land Use-Land Cover for agriculture sustainability in a part of Delhi-NCR region by using Remote Sensing and GIS techniques	Botany	Dr. Pooja Baweja and Mr. Vikas Rena
2	In-silico study of Pesticides for the binding of Calyx of Bovine β -Lactoglobulin	Chemistry	Dr Lata vodwal and Dr Durgesh Kumar
3	“Polymeric ‘Smart Nuribots’ for Sustainable Aquaponics Agriculture”*	Chemistry	Dr. Swarndeeep Kaur Sethi; Dr Kiran soni and Dr Geeta Batra Narula
4	Functionalized nano biopolymer for designing of sustainable crop protection formulations*	Chemistry	Dr Gazala Ruhi, Dr Hema Bhandari and Dr Rajni Johar
5	Optimizing The Consumption Of Products Of Petroleum Industry: An Approach Towards Agricultural Sustainability*	Commerce	Dr Sonal Babbar
6	CLIMATE CHANGE AND ITS IMPACT ON AGRICULTURE SECTOR IN INDIA	Commerce	Dr. Saroj Rani
7	Food Security, Sustainability and Markets: Understanding the Protest of Farmers against Laws	Commerce	Dr. Saroj Rani
8	Exploring the sustainable future of Handlooms : A dive into its raw materials market, exports, growth and prospects*	Commerce	Ms. Kritika Khurana
9	Women empowerment and sustainable agriculture : Synergies and missing links	Economics	Ms. Nidhi Chand
10	Organic Farming and Sustainable Development*	Economics	N. Shradha Varma

11	Indigenous knowledge, new age modernism to achieve sustainable agriculture and its impact on farmers	Economics	N. Shradha Varma
12	Implementation gaps in Sustainable Agriculture	Economics	N. Shradha Varma
13	Rebound agriculture - Traditional techniques for contemporary needs*	Economics	N. Shradha Varma
14	Economic challenges in wide-scale adoption of sustainable agricultural practices in India	Economics	Ms Devangana Jha
15	Social Issues of Sustainable Agriculture in India*	Economics	Dr. Priti Mendiratta Arora
16	Recognition of the Role of Agriculture in Assamese Society: A Study of Culture, Folklore and Cinema	English	Dr Richa Chilana
17	Women in Premchand's Rural Settings: Negotiating Tradition and Modernity	English	Dr Richa Chilana
18	Towards Redesign and Recommend through Natural and Cost-effective Farming Solutions for Sustainable Agriculture	Computer Science	Dr Veena Ghuriani and Dr Jyotsna Talreja Wassan
19	MATHEMATICAL MODEL FOR SUSTAINABLE PRODUCTION OF RICE IN West Bengal	Maths	Dr. Neetu Arneja , Mr. Saurav Kumar
20	Preparation of structured water and study of its role in quality improvement of plants	Physics	Dr Shalini Lumb Talwar and Dr. Parul Yadav
21	Design of Hydroponics system using Arduino to monitor physical parameters required for plants growth	Physics	Dr. Mansi Dhingra, Dr. Parul Yadav
22	Aquaponics- A Method Towards Sustainable Agriculture	Physics	Dr. Prajwalit Shikha
23	Vedic Farming: A boon to Indian Agriculture	Sanskrit	Dr Rekha Kumari
24	Search for Alternatives: A Sociological Study of the Permaculture Movement in India	Sociology	Dr Gopi Devdutt Tripathy
25	Interrogating the idea of 'sustainable agriculture' and assess its social impact	Sociology	Dr Rashi Bhargava
26	Sustainable Agriculture: Exploring the Realisation of Goals and Gender Dynamics involved	Sociology	Mr Neeraj Kumar

27	Sustainable agriculture and irrigation methods. -a case study of Kangra district, Himachal Pradesh, India.	Sociology	Mr Pawan Harsana
28	Minimum Support Price Conundrum and Sustainable Farming: a study of the impact of socio-economic factors on sustainable agriculture	Sociology	Mr Pawan Harsana
29	Modern technologies for sustainable agriculture and their reach up to farmers	Zoology	Dr Luni and Dr Tejendra Kumar
30	Are coccidophagous ladybirds better biocontrol agents than the aphidophagous ones?	Zoology	Dr Meena Yadav
31	To monitor the growth of plants using bio-organic approach for Sustainable agriculture"	Interdisciplinary (Chemistry and Botany)	Dr. Kiran Soni, Dr. Gita Batra Narula, Dr. Alka B Vadakan, Dr. Shweta Sharma
32	IoT-based smart farming for sustainable agriculture in India	Interdisciplinary (Maths & Computer Science)	Ms. Geetan Manchanda and Dr. Shikha Badhani

* The projects are accepted subject to incorporation of changes as communicated via email

**It is mandatory that all papers published and/or presented from the projects carried out under the Centre for Research, Maitreyi College are duly acknowledged

*** Details of all the paper published/presented from SIP of previous years is mandatory to submit. The link for the google form for this submission would be shared soon. Certificates for this SIP is subject to submission of this data.