



SRI-VIPRA

**Sri Venkateswara Internship
Program for
Research in Academics**

REPORT-2020



**SRI –VENKATESWARA INTERNSHIP PROGRAM FOR
RESEARCH IN ACADEMICS (SRI-VIPRA 2020)**

Preface

Undergraduate research ecosystem has gained momentum for the past few years to promote enquiry based learning and expose students to research opportunities. Sri Venkateswara College realizes the importance of undergraduate research in academics to provide academic depth beyond curriculum. In this direction, Internal Quality Assurance Cell (IQAC) of Sri Venkateswara College initiated the **SRI-VIPRA (SRI –Venkateswara Internship Program for Research in Academics)** in the year 2019 where students are given an opportunity to work under a chosen faculty mentor during summers or break period. Supervised guidance is provided in all disciplines of Sciences, Humanities and Commerce. Multidisciplinary projects are encouraged to provide skill set beyond the core strength of the individual students. Incorporating a research component enables students to develop independent critical thinking skills along with oral and written communication skills. The students are encouraged to submit a report of their findings and upon successful completion of the SRI-VIPRA program , students receive a certificate of completion from the College. The details of the projects under SRI-VIPRA for the session June 2020 -Aug 2020 is provided in this report.



Dr. Ravindra Varma Polisetty
Coordinator, SRI-VIPRA 2020
(Sciences)



Dr. S. Krishna Kumar
Coordinator, SRI-VIPRA 2020
(Humanities & Commerce)



Dr. N. Latha
Coordinator, IQAC
College



Dr. S. Venkata Kumar
Ag. Principal, Sri Venkateswara

Dated : 18-12-2020

SRI –VENKATESWARA INTERNSHIP PROGRAM
FOR RESEARCH IN ACADEMICS
(SRI-VIPRA 2020)

**List of teachers and students participants in SRI-VIPRA 2020
(June 2020-August 2020)**

S.No	Name of the mentor	Department	Title of the Project	Number of students
1	Dr.Swarn Singh	Mathematics	Differential Equations and Mathematical Modelling.	9
2	Dr.Deepti Jain	Mathematics	Graph Theory: Problems and Applications	3
3	Dr. Sudhakar Yadav	Mathematics	Prey- predator model of Real Life Problem and Dynamical behavior	7
4.	Dr.Shubhra Gupta	Electronics	Modelling of Thin Film Solar Cells	3
5	Dr.Rakhi Narang	Electronics	Digital Image Processing Using MATLAB	5
6	Dr.J.Lalitha	Electronics	Using Natural Language Processing (NLP) For Sentiment Analysis In Social Media Messages	5
7.	Dr.Pooja Gokhale	Botany	Through The Lenses Of Lockdown: Statistical Analysis Of Emission Profile Of Key Environmental Indicators	10
8	Dr. Amit Vashishta	Botany	Phylogenetic analysis of subfamilies viz. Ornithogaloideae and Urginoideae (family Hyacinthaceae) based on trnL intron and trnL-F spacer sequences of cpDNA	9
9	Dr. Pamil Tayal	Botany	Importance Of Medicinal Plants In Combating Diseases	6
10	Dr.Anant Pandey	Physics	Dosimetry of Ion Beams Used in Radiotherapy	12
11	Dr. Ankit Joshi	Economics	Structural Breaks and Slowdowns in the Indian Economy	8
12	Ms. Yogita Yadav	Economics	Understanding Inequalities in India	8
13	Mr. Jitesh Rana	Economics	The Effects Of Firm Specific Factors And Macroeconomic Variables On Profitability Of IT	8

			Consulting Industry In India	
14	Dr.Padma Suresh	Economics	Covid 19-Opportunities and Challenges for the Indian Economy	10
15	Dr. S. Krishna kumar	Economics	Sovereign Debt Crisis In Advanced And Emerging Economies	8
16	Dr. Neha Singhal	Commerce	Streaming Now-OTT In The Times Of Covid-19	8
17	Dr. Arpita Kaul	Commerce	A Study On Values And Attitudes Of Indian Millennials	8
18	Mr. Aashish Jain	Commerce	A Complete Analysis of Stimulus Package 2020	8
19	Dr.Pooja Jain	Commerce	Factors Affecting Consumer Attitude Towards E-commerce: A Study in COVID Era in India	8
20	Ms. Sreya Ann Oommen	English	Gender Studies: Representation of Gender in Literature and Media	5
21	Dr.JayaRaj	Zoology	Analysis Of Raw Sequencing Data Of Cancer Specific Genes Associated With Eyelid Tumors And Their Gene Networking	11
22	Dr.Vartika Mathur	Zoology	Study of Knowledge & Popularity of Alternative Strategies for Boosting Immunity During the time of COVID-19	5
23	Dr.Vartika Mathur	Zoology	Survey Report on Study of Endosymbionts Using Omics	4
24	Dr.Richa Misra	Zoology	Burden of Disease and Healthcare Expenditure for Indian households	6
25	Dr. Vagisha Rawal	Zoology	Impact Of COVID-19 Pandemic On Environment And Wildlife".	5
26	Dr.Mansi	Zoology	Cpg Island Analysis Of Coronaviruses	8
27	Dr.Anita Verma	Zoology	Recent Trends in Malaria research	5
28	Dr.Ravindra Varma	Biochemistry	Study Of Regulatory Mechanisms Associated With Cancer Progression	10
29	Dr.Nimisha Sinha	Biochemistry	Computational Screening Of The Selected Ligands Against Dengue Virus (DENV) Non Structural Proteins As Drug Targets	8

30	Dr.Nandita Narayansamy	Biochemistry	Deriving A Metabolic Index To Evaluate The Metabolic Status Of An Individual	9
31	Dr.Vandana Malhotra	Biochemistry	In Silico Characterization and Virtual Cloning of Mycobacterium tuberculosis Response Regulators and Ser/Thr Protein Kinases	4
32	Dr. N. Latha	Biochemistry	Applications Of Bioinformatics In Cardiovascular Disorders For Novel Therapeutics Design	8
33	Dr. Lalitha/ Dr. Nandita Narayanasamy	Electronics/ Biochemistry	Association between Occupational Exposure to Air Pollutants and Pulmonary Health in Construction Workers: Systematic review and Meta-analysis	11
34	Dr.Kameshwar Sharma	Biochemistry	Survey On Various Factors Associated With Life Style Diseases	6
35	Dr. Anju Kaicker	Biochemistry	Graduate Teaching During Covid-19 Induced Lockdown	8
36	Dr.Abhishek Chandra	Environmental Sciences	Basic Concept of Carbon Sequestration	8
37	Dr.Robin	Environmental Sciences	The Basics of Animal Bioacoutics	10
38	Dr.Haokam Vaiphei	Political Science	Covid-19: Care in Crisis	8
39	Dr.Namita Pandey / Dr.Deepika Singh	Political Science	India's Strategy in Indo-Pacific Region (In the Context of Growing Chinese Aggression	8