

## Elite Projects 2022-23

S. No.	Title of the Project	Mentor/s	Detail of Student/s with courses
1	An Analysis of Returns on Select IPOs in India	Dr. Sandeep Kumar Goel Dr. JitenderGoel Department of Commerce	Aadya Agrawal, Nitin Kumar Aggarwal B. Com. (H) 3
2	A Study On Small Finance Banks In India	Dr. Sandeep Kumar Goel Dr. Jitender Goel Department of Commerce	Juhi Mahavar, Raj Verma B. Com. (H) 3
3	A Study on Green Marketing Initiatives of Select Indian Companies	Dr. Sandeep Kumar Goel Dr. Jitender Goel Department of Commerce	Aayushi Gupta Lakshya Sabharwal B. Com. (H) 2
4	Cash Burn Model in Business: A Study of Select Startups Worldwide in Achieving Profitability	Dr. Sandeep Kumar Goel Dr. Jitender Goel Department of Commerce	Charudev Gupta B. Com. (H) 2
5	India's Startup Ecosystem: A case study on Book With UVA	Mr. Sanjay Vohra Convenor, Entrepreneurship Lab.	Abhishek Kumar Uttam Srivastava B. Com. (H) 2 Prince B. Sc. (H) BMS 2
6	How to convert a business idea into a successful start-up?	Dr. Surinder Kaur Ms. Rupali Pabreja Department of commerce	Vedant Maheshwari B. Com. (H) 2
7	Digital Economy - An analysis on its effects and applications upon India	Dr. Surinder Kaur Ms. Rupali Pabreja Department of commerce	Kunal Kumar B. Com. (H) 1
8	A study of select factors affecting share prices in India	Dr. Sandeep Kumar Goel Dr. Jitender Goel Department of Commerce	Muskan Aparna Chaurasia Karuna Roy B.Com. (H) 1
9	Digital Marketing- An analysis of perspective of consumer in India	Dr. Surinder Kaur Ms. Rupali Pabreja Department of commerce	Shruti kumari, Himanshu Raj Shreya Gupta B.Com. (H) 1
10	The Impact of YULU on Urban Mobility and Environment	Dr. Surinder Kaur Ms. Rupali Pabreja Department of commerce	Rishabh Singh Kaushik Vivek kunwar B.Com. (H) 1
11	Impact of artificial intelligence in the economy of India	Dr. Surinder Kaur Ms. Rupali Pabreja Department of commerce	Sushant Anand B.Com. (H) 1

12	Digitalization of Indian economy	Dr. Surinder Kaur Department of Commerce	Vicky Kumar B.Com. (H) 1
13	To study the effect of pH on invitro growth of ciliates	Prof. Ravi Toteja Prof. Seema Makhija Department of Zoology Dr. Pooja Bhagat Department of Chemistry	Bhavna Indu M B.Sc. (H) BMS 3
14	To study interactions of SARS COV-2's surface and secretory proteins with amyloidogenic proteins responsible for cardiac amyloidosis	Dr. Rimpay Kaur Chauhan Dr. Archana Pandey Department of B.M.S.	Hirday Sehgal Ajay Kumar Singh B.Sc. (H) BMS 3
15	To study the effect of temperature on in vitro growth of ciliates	Prof. Ravi Toteja Prof. Seema Makhija Department of Zoology Dr. Pooja Bhagat Department of Chemistry	Mohd Tabish Mohammed Ali Hossain Maahi B.Sc. (H) BMS 3
16	Prevalence of hypertension in college going youths	Dr. Sunita Jetly Department of B.M.S.	Riya Rajput Alarmelumangai Anushka B.Sc. (H) BMS 4
17	Extraction of Phytochemicals from Common Sources such as flavonoids and alkaloids and Characterization of their Antioxidant and Anti-Inflammatory Properties through in-vitro assays.	Dr. Ritu Khosla Dr. Archana Pandey Department of B.M.S.	Khushi bhatt Arpita Singh B.Sc. (H) BMS 4
18	Exploring the Antimicrobial Properties of Musca domestica as a Natural Alternative to Antibiotics in the Fight Against Antibiotic Resistance	Dr. Seema Makhija Dr. Ravi Toteja Department of Zoology	Abdullah, B.Sc. (H) BMS 4
19	Study of Rise in Shingles cases as an aftermath of Covid 19	Dr. Ritu Khosla Dr. Archana Panday Department of B.M.S.	Anshika Bansal B.Sc. (H) BMS 4
20	Analyzing the antibacterial effect of TiO2 nanoparticles synthesized from Aloe Vera	Prof. Charu Gupta Department of Botany	Jasman Singh B.Sc. (H) BMS 4
21	Enhancement of antibiotic efficacy through synergistic effect using multifarious medicinal plant extracts to curb E. coli growth	Dr. Satendra Singh Department of B.M.S. Dr. Anita Narang Dr. Sumit Sahni Department of Botany	Hirtik Singh Rathore Saarthak Kumar Suprobh Ahna Borah B.Sc. (H) BMS 4
22	Detection of chronic myeloid leukemia in patients through novel techniques	Dr. Sunita Jetly Dr. Ritu Khosla Department of B.M.S.	Jassi Goyal B.Sc. (H) BMS 4

23	To study the effect of heavy metal ions on the colpoda colpidium	Prof. Seema Makhija Prof. Ravi Toteja Department of Zoology	Khushi Rani B.Sc. (H) BMS 4
24	Study of laboulbeniomyces	Dr. Anupama Shukla Department of Botany	Maushami P T B.Sc. (H) BMS 4
25	Synthesis of silver nanoparticles using environment friendly chemicals	Dr. Ritu Khosla Dr. Archana Pandey Dr. Rajeev Ranjan Department of B.M.S.	Najjam B.Sc. (H) BMS 4
26	To synthesize silver nanoparticles and study their stability characteristics.	Dr. Ritu Khosla Dr. Archana Pandey Dr. Rajeev Ranjan Department of B.M.S.	Ritu Papney B.Sc. (H) BMS 4
27	To assess the impact of thalassemia through awareness and screening among college youth and assess the role of genetic counselling	Dr. Sunita jetly Dr. Ritu Khosla Dr. Deepshika Department of B.M.S.	Srishti B.Sc. (H) BMS 4
28	Synthesis and stablilization studies of silver nanoparticles	Dr. Ritu Khosla Dr. Archana Pandey Dr. Rajeev Ranjan Department of B.M.S.	Vipasha Kamboj B.Sc. (H) BMS 4
29	Genome and transcriptome data Analysis for novel target identification and Characterization.	Dr. Rimpay Kaur Dr. Archana Pandey Department of B.M.S.	Hariom Chaudhary Sandeep Gupta Prashant Tiwari B.Sc. (H) BMS 2
30	Characterization of plant extracts as bio-indicators of pollution levels	Prof. Charu Khosla Gupta Dr. Anita Thakur Department of Botany Prof. Arijit Chowdhuri Department of Physics	Niharika Sehgal, B.Sc. (H) BMS 2 Surabhi Dixit B.Sc. Prog. Life Science 2
31	Reactive Oxidation Species (ROS) determination in leaves of different plant species: Exploring the relationship with air pollution	Prof. Charu Khosla Gupta Dr. Anita Thakur Department of Botany	Nikita Singh Dhankhar Tanisha Singh B.Sc. (H) BMS 2
32	Study on Effect of heavy metals on Reproductive fitness of plants	Prof. Charu Khosla Gupta Dr. Vineet Kumar Singh, Department of Botany	Jitesh Debbarmai Adiya Vatsa Roja Sharma Mitali Saini B.Sc. (H) Botany 4
33	Cultivation of pleurotus florida on college generated lignocellulosic waste and isolation of extracellulosic enzymes from spent mushroom substrates	Dr Sumit Sahni Dr Vineet Kumar Singh Dr Anita Narang Department of Botany	Ridhi Rai Jangidi Ranjith Nidhi Sharma Pratiksha Saini Samridhi Mishra B.Sc. (H) Botany 4

			Ayush shukla Ayush Shukla Sanket Jain Sneha Kumari B.Sc. (H) Botany 2
34	Role of vitamins in enhancing the antioxidating action of superoxide dismutase in germinating tomato seedlings	Dr. Anita Thakur Dr . Geetika Kalra Prof. Charu Khosla Gupta Department of Botany	Anjali, Ritik Pratap Singh, Afshar Ajmeri , S Ananya, Aman Kumar B.Sc. (H) Botany 4
35	Laboulbeniomycetes	Dr. Anupama Shukla, Department of Botany	Akza K John, Anson Antony B.Sc. (H) Botany 4
36	Indian Laboulbeniomycetes	Dr. Anupama Shukla Dr. Anita Narang Dr. Sumit Sahni Department of Botany	Anushka Tiwari Haemakshi Biswas Shuruti Panwar B.Sc. (H) Botany 4
37	Survey and analysis of allelochemicals of selected weeds and their effect on crop plants	Dr. Rashmi Sharma Department of Botany	Sahil Kumar, Vishal Bahadur B.K. B.Sc. (H) Botany 4
38	Effect of particulate matter on reproductive fecundity in native tree species of Delhi	Prof. Charu Khosla Gupta Dr. Vineet Kumar Singh Department of Botany	Srijal Priya Aniket Raj Vaibhav Khatri B.Sc. (H) Botany 2
39	The Feasibility of Hydroponic System in Commercial Agriculture	Dr. Geetika Kalra Department of Botany	Abhishek Kumar Singh B.Sc. (H) Botany 2
40	Hydroponics	Dr. Geetika Kalra Department of Botany	Prarthna Vashisth B.Sc. (H) Botany 2
41	Synthesis of Schiff bases of biologically important heterocyclic compounds	Dr. Manisha Jain Dr. Pankaj Khanna Department of Chemistry	Sakshi Yadav B.Sc. (H) Chemistry 6
42	Use of Fe <sub>2</sub> O <sub>3</sub> nanoparticles derived from laboratory waste as catalyst	Dr. Seema Gupta Department of Chemistry Prof. Gagan Dhawan Department of B.M.S.	Dipankar Dev Rishi B.Sc. (H) Chemistry 4
43	Design and development of core-shell nanoparticles	Prof. Vikrant Kumar Department of Chemistry	Abhijit Roy Akriti Singh Mansi Meena Sneha Mehra B.Sc. (H) Chemistry 4

44	Green synthesis of metal oxide nanoparticles and their use as bioenzymes	Prof. Seema Gupta Department of Chemistry Dr. Satendra Singh Department of B.M.S.	Anuj Thakur B.Sc. (H) Chemistry 4
45	Conversion of lab-waste into useful Fe <sub>2</sub> O <sub>3</sub> nanoparticles for water purification as well as catalyst-a greener approach	Prof. Seema Gupta Department of Chemistry Dr. Gagan Dhawan Department of B.M.S.	Bhumika Bhardwaj B.Sc. (H) Chemistry 4
46	Synthesis of Cu <sub>2</sub> O-Cu(OH) <sub>2</sub> nanoparticles from the lab waste for catalytic activity	Prof. Seema Gupta Department of Chemistry Dr. Gagan Dhawan Department of B.M.S.	Nibha Kumari B.Sc. (H) Chemistry 4
47	Ecofriendly and enhanced biogenic synthesis of metallic nanoparticles using deep eutectic solvent	Prof. Seema Gupta Dr. Pooja Bhagat Department of Chemistry	Nikita Sharma Kanjika Rastogi B.Sc. (H) Chemistry 4
48	Potential of ionic liquids in removal of Metal Ions	Prof. Seema Gupta Dr. Pooja Bhagat Department of Chemistry	Sarthak Singh B.Sc. (H) Chemistry 4
49	Application of metal oxide nanoparticles prepared from plant extracts as bioenzymes	Dr. Seema Gupta Department of Chemistry Dr. Satyendra Singh Department of B.M.S.	Divya B.Sc. (H) Chemistry 4
50	Corrosion studies of mild steel	Prof. Sunita Hooda Dr. Neelu Dheer Department of Chemistry	Badal Chawla Devansh Dwivedi Adarsh kumar B.Sc. (H) Chemistry 2
51	Synthesis using multicomponent reaction	Dr. Kavita Mittal Department of Chemistry	Devanand Singh B.Sc. (H) Chemistry 2
52	Study of the green synthesis of chalcones and their analysis	Dr. Kavita Mittal Department of Chemistry	Rohit Kumar Barnwal B.Sc. (H) Chemistry 2
53	Synthesis via multicomponent reactions and analysis of the product using different chromatographic techniques	Dr. Kavita Mittal Department of Chemistry	Shashank B.Sc. (H) Chemistry 2
54	Phish Detect: A Machine Learning-based Phishing Detection Tool	Gunjan Rani Department of Computer Sc.	Amartya Sinha Nilesh Pandey B.Sc. (H) Computer Sc. 6
55	Faculty Publication Management	Prof. Sharanjit Kaur Department of Computer Sc.	Shahnwaz Khan Prakash Kumar Singh B.Sc. (H) Computer Sc. 6

56	Future Implications of Language Models on Common People's Daily Life	Mahesh Kumar Department of Computer Sc.	Ajay Yadav Ankit Vinay Pratap Singh B.Sc. (H) Computer Sc. 4
57	D2C selling portal for farmer produce based on nearest traversal of demands	Dr.Preeti Marwaha Department of Computer Sc.	Arpit Bhardwaj B.Sc. (H) Computer Sc. 4
58	Digital Empowerment of students of Acharya Narendra Dev College	Dr. Sunita Narang Department of Computer Sc. Dr. Shallu Mahajan Department of Commerce	Awani Sharma Ayush Bhardwaj Yuvraj Saroha Utkarsh Tiwari B.Sc. (H) Computer Sc. 4
59	WanderLust	Ms. Gunjan Rani Prof. Sharanjit Kaur Department of Computer Sc.	Ayush Yadav Pranav Singh Shrishti Rawat Riyansh Sharma B.Sc. (H) Computer Sc. 4
60	Translating Court Judgments into regional languages	Ms. Gunjan Rani Dr. Mahesh Kumar Department of Computer Sc.	Chandan Kumar Shorya Bhatnagar Shubh Sankhyadhar B.Sc. (H) Computer Sc. 4
61	Free Online Repository for Various Stages in Crop Production	Ms. Nishu Singh Department of Computer Sc.	Dinesh Kumar Mihir Kumar Sah B.Sc. (H) Computer Sc. 4
62	D2C:Portal for selling agricultural produce using greedy algorithm	Dr. Preeti Marwah Department of Computer Sc.	K. Kanak Megha B.Sc. (H) Computer Sc. 4
63	Impact of AI Models	Dr. Mahesh Kumar Department of Computer Sc.	Priyam Tripathi B.Sc. (H) Computer Sc. 4
64	Water Light Charger	Dr. Anju Agrawal, Ms. Gauri Ghai and Dr. Ravneet Kaur	Aditya Diwakar Mahato B.Sc. (H) Electronics 6
65	Women Safety Security System	Professor Anju Agrawal Ms. Gauri Ghai Department of Electronics	Karishma Goswami B.Sc. (H) Electronics 6
66	Obstacle Avoidance Robotic Vehicle	Dr. Monika Bhattacharya Dr Ravneet Kaur Department of Electronics	Dev Panchal Anshu Kumari Saurabh Kaushik Prachi Dubey B.Sc. (H) Electronics 4

67	Sunlight Sensitive Smart Roof with Rainfall Protection	Prof. Anju Agrawal Dr. Ravneet Kaur Dr. Monika Bhattacharya Department of Electronics	Aman Muskan kumar Sharma Vishal Gupta B.Sc. (H) Electronics 4
69	Fourier transform applications in image processing	Dr. Vishal Dhingra Dr. Monika Bhattacharya Department of Electronics	Prachi Dubey B.Sc. (H) Electronics 4
70	GSM based Home Security Alarm System	Dr. Monika Bhattacharya Ms. Gauri Ghai Department of Electronics	Vishal Gupta Chandan Kumar Prashant Kumar Sachin Jarwal B.Sc. (H) Electronics 4
71	Web Development	Dr. Ravneet Kaur Ms. Gauri Ghai Department of Electronics	Abhinav Saxena Govind Kushwaha Pankaj Kumar Sneha Singh B.Sc. (H) Electronics 2
72	A comparative study of Esports and Traditional sports: Analysis of Audience and Revenue Generation	Dr. Monika Bhattacharya Prof. Anju Agrawal Department of Electronics	Harsh Singh Tanmay Sharma Vansh B.Sc. (H) Electronics 2 Aayush Sarkar PMCs 2
73	Pulse Watch	Dr. Ravneet Kaur Ms. Gauri Ghai Prof. Anju Agrawal Department of Electronics	Jugantar Sensua Shailesh Singh Tarun Singh Mehta B.Sc. (H) Electronics 2
74	Automating Physics Experimentation	Prof. Amit Garg Department of Electronics	Mukesh Kumar Jha B.Sc. (H) Electronics 2
75	Application of Bayesian Inference in Spam Detection/ Customer Dataset	Dr. Vatsala Kohli Ms. Seema Gupta Department of Mathematics	Mayank Rathi B.Sc. (H) Mathematics 4
76	continuum hypothesis“ Is it always true for set theory?	Dr. Vatsala Kohli Ms. Seema Gupta Department of Mathematics	Vishal Kumar B.Sc. (H) Mathematics 4
77	Synthesis of 2 D materials for sensing applications	Arijit Chowdhuri (Physics) Charu khosla Gupta (Botany) V. Bhasker Raj (Physics)	Aditya Kumar Singh Ashish Gupta B.Sc. (H) Physics 4
78	Increasing the efficiency of solar cell	Dr. Sanjeeta Rani Department of Physics	Kuldeep Yadav B.Sc. (H) Physics 4
79	Ambient Air Pollution measurement using 2D materials	Prof. Arijit Chowdhuri Dr. V. Bhasker Raj Department of Physics Charu Khosla Gupta Department of Botany	Ravi Kant Shukla Shivam Tomar B.Sc. (H) Physics 4

80	Dielectric Studies of Magnetite based Polymeric Samples	Dr. Sanjeeta Rani Dr. Manisha Verma Department of Physics Dr. Sunita Hooda Department of Chemistry	Abhineet Singh Rajput Kunwar Sugam Anugrah Prasun kumar Pal B.Sc. (H) Physics2
81	Design and Development of TiO <sub>2</sub> Nanoparticles and its Applications	Dr. Rakesh Sonkar Department of Physics	Harsh Harsh Agrahari B.Sc. (H) Physics 2
82	Estimation of Pi using 3D geometry in Platonic solids	Dr. Sanjeeta Rani Dr. Manisha Verma Prof. Subhash Kumar Department of Physics	Manan Vyas Samyak Marathe B.Sc. (H) Physics 2
83	"Exploring the origin of the universe: A study of the big bang and the singularity	Dr. Meenu Mohil Department of Physics	Vijay Rawat B.Sc. (H) Physics 2
84	Study of Ethanol Exposure on Different Developmental Stages of Zebra fish	Dr. Monica Mishra Ms. Bhumika Chauhan Department of Zoology	Jasmine Negi Tannu Gond B.Sc. (H) Zoology 4
85	To Study The Effect Of Heavy Metal Ions On The Colpoda Colpodium	Prof. Seema Makhija Prof. Ravi Toteja Department of Zoology	Dhruv Bhasin
86	Optics	Dr. Meenu Mohil Dr. Sanjay Kumar Department of Physics	Jagdeesh Arya B.Sc. Prog. (PMC) 4
87	Vehicle Tracking System	Dr. Chandra Kant Samal Department of Computer Sc.	Ayush Chaudhary Chetna Panchal Divya Mishra Pranjal Verma Ravi Tomer B.Sc. Prog. (PMCS) 4
88	To study the Effects of pH on invitro growth of Ciliates	Prof. Ravi Toteja Prof. Seema Makhija Department of Zoology Dr. Pooja Bhagat Department of Chemistry	Heena Praveen B.Sc. Prog. Life Science 6
89	Synthesis, Characterization and Comparative study of nickel, copper and zinc ferrites by different methods of preparations.	Prof. Geetu Gambhir Prof. Sunita Hooda Department of Chemistry	Vishwa Deepak Srivastava Chirag Singh Nakul Shishodia B.Sc. Prog. Life Science 4
90	Synthesis and Characterization of graphene based nanocomposites	Prof. Sunita Hooda Dr. Geetu Gambhir Department of Chemistry Dr. Manisha Verma Department of Physics	Aayushi Rajput B.Sc. Prog. Life Science 4



91	Study of Ethanol Exposure on Different Developmental Stages of Zebra fish (Danio Rerio) - A Novel Model of Fetal Alcohol Syndrome (FAS)	Dr. Monica Mishra Ms. Bhumika Chauhan Department of Zoology	Aru Chaudhary Bhawna Gurnani B.Sc. Prog. Life Science 4
92	Study the potential of Al EDTA metal organic framework for the adsorption of lead ions	Prof. Geetu Gambhir and Prof. Sunita Hooda Department of Chemistry	Avichal Kaushik Nitesh Malik B.Sc. Prog. Life Science 4
93	To establish the culture of Zebrafish (Danio rerio) and observe their growth 120 hours post-fertilization.	Dr. Monica Mishra Ms. Bhumika Chauhan Department of Zoology	Divya Pandey B.Sc. Prog. Life Science 4 Anshika Tyagi Vasundhara Bhattacharya B.Sc. Prog. Life Science 2
94	Characterization studies of 3d metallic ion dopants in ferrite added graphene based nanocomposites.	Prof. Sunita Hooda Dr. Geetu Gambhir Department of Chemistry Dr. Manisha Verma Department of Physics	Ilma Khan B.Sc. Prog. Life Science 4
95	Study of Polysaccharide based Graphene Oxide (GO) nanocomposites for Adsorption of Metformin hydrochloride	Prof. Geetu Gambhir Prof. Sunita Hooda Department of Chemistry	Kapil Sharma Puneet Chauhan Soven Kumar Samal B.Sc. Prog. Life Science 4
96	To investigate the effects of different diets on the growth and development of Zebrafish	Dr. Monica Mishra Ms. Bhumika Chauhan Department of Zoology	M Vathsala Shikha Negi B.Sc. Prog. Life Science 4
97	Hybrid magnetic spinels for photocatalysis	Prof. Geetu Gambhir Prof. Sunita Hooda Dr. Bhawna Kaushik Department of Chemistry	Srashti Gupta Zubishah Rais Shruti Setia B.Sc. Prog. Life Science 4
98	Investigating the impact of oxidative stress on genetic stability during cell division	Dr. Anita Narang Dr. Sumit Sahni Dr. Vineet Singh Department of Botany	Ajit Narayan Jha Anika sharma Anurag Parida Aradhy Srivastava B.Sc. Prog. Life Science 2
99.	Studying Sociological Impact of Madness and Maternity in select Literary works	Ms. Ankita Rasaily Department of English	Pratiksha Panda Devika A. P. Anushka Tomar Parthib Kalita B.Sc. (H) Zoology I Anshika Choudhary B.Sc. (H) Chemistry I Shubh Dixit B.Sc. Prog. Life Science I

100	Studies of Bio-active compounds	Dr. Vikrant Kumar Department of Chemistry	Madhurya Saha B.Sc. (H) B.M.S. I
101	Social Network Analysis	Prof. Sharanjit Kaur Department Of Computer Sc.	Piyush Singh Rohan Sagar B.Sc. (H) Computer Sc. I
102.	Rectifying Invisible Cloak using open CV	Dr. Preeti Marwah Dr. Arunita Chaukiyal Department Of Computer Sc.	Nishant Pratap Singh Ali Maqsood B.Sc. (H) Computer Sc. I
103	Encryption and steganography	Dr. Ravneet Kaur Ms. Gauri Ghai Department of Electronics	Kaushal Kumar B.Sc. (H) Electronics I