

G. S. SCIENCE, ARTS & COMMERCE COLLEGE KHAMGAON-444303
Dist. Buldana (M.S.)



Internal Quality Assurance Cell

A report on In-house Summer Research Program 2021-22

As per policy for promotion of Summer Research, online summer research program was conducted during the academic year 2021-22. Names of the interested mentors were invited through a Google form in which their research area was also asked. Total 17 mentors showed their willingness to guide the students. Students applications were invited through a Google form by the IQAC. They were given a choice to select a mentor and area of research. About 160 students applied for the summer internship under the mentorship of 17 mentors.



Vidarbha Shikshan Prasarak Mandal's
G. S. Science, Arts and Commerce College, Khamgaon

Affiliated to Sant Gadge Baba Amravati University, Amravati
Listed U/S 2 (F) and 12 (B) Of the UGC Act
Reaccredited by NAAC with A grade (CGPA 3.08)

ISO 9001:2015
CERTIFIED
College Code: 301



In-house Summer Research Program 2020-21

(An initiative of IQAC)

Students interested in doing **Summer Research** in our college should apply by filling out following Google form: <https://forms.gle/U9x95VsvVMzFETSv9>

Please choose research topic and teacher mentor in the form.

Last date of submission of form: 14 June, 2022

Note: Selected students will receive further communication on your email from the mentor on 5th July 2022

Dr H S Chandak
Coordinator, IQAC

Dr D S Talwankar
Principal

Snapshot 1: Brochure of the In-House Summer Research Program

A few students were shortlisted based on their academic record and availability of IT infrastructure with them. Summer research program was successfully completed under following mentors:

1. Dr A D Bhosle (Commerce- 12 students)
2. Dr A A Tayade (Computer Science- 6 students)
3. H S Chandak (Chemistry- 5 students)

4. Dr M O Wankhade (Statistics- 2 students)
5. Dr P S Bodkhe (Computer Science- 1 students)
6. Dr P E Ajmire (Computer Science- 3 students)
7. Dr P V Ubale (Statistics- 6 students)
8. Dr D S Talwankar (Botany - 3 students)

Students worked in the laboratory and get hands-on experience on various laboratory skills. Mentors conducted on-line and in-person meetings with the students. They introduced them with the concepts of research method and research methodology. They were also made aware about formulation of a research problem.

Significant achievement: It is noteworthy to mention that one of the students **Ms Anjali Kailsah Bhonge** extended her research work and submitted the proposal for **WENyan scholarship (a project funded by BASF)** by Pune Knowledge cluster. She will receive a fellowship of Rs 15000/ month for six months to undertake her masters project during session 2022-23.

All the students who undertook in-house summer research were awarded with a institutional scholarship of Rs 500 each. Total 33 scholars were awarded with a scholarship of Rs 500 each. It is noteworthy to mention that Hon'ble Vice-President Shri A P Jhunjhunwala sponsored a fellowship in the fond memory of freedom fighter Late Purshottamji Motilalji Jhunjhunwala. A scholarship of Rs 500 each to all the 11 students from Commerce faculty was sponsored by him. Remaining 22 students were awarded with a institutional scholarship of Rs 500 each.



Scholarship distribution to the scholars who completed In-house Summer Research during 2021-22

A list of the students who successfully completed In-house Summer Research Project 2021-22 with a link to their report is appended below. Following **38 students** successfully completed in-house summer research program:

S.N	Name of the student	Class	Name of the mentor	Title of the project	Link to the report
1.	Aditi Vasant Deshpande	B.Sc II CSM	A A Tayde	Website of Computer Science Department	https://drive.google.com/open?id=1IEBSqf8f7FKoBFI1SAHW_i6bivjy3Xg
2.	Ram Gajanan Thomble	BCA III	A A Tayde	“VIRTUAL OS”	https://drive.google.com/open?id=1No8Ht8bUCinr5tllqbF8eoDSJzZSnSoY
3.	Krishnakumar Vijay Sharma	BCA-I	A A Tayde	Website of Best Career Opportunities After BCA	https://drive.google.com/open?id=1eef8iYvaWxZ7Doza8XYyaBnUQfzT7-FB
4.	Sakshi Santosh Jadhao	BSc II	A A Tayde	Website of Home Decor	https://drive.google.com/open?id=1mnp5RQoayz8tYBPUz1XEBwDJ74wkLmcY
5.	Tushar Samadhan Patil	BSc II	A A Tayde	Website on Restaurant Management	https://drive.google.com/open?id=1pglgyNT6F-Z7YBIUeTpKJbuEmseWiYiK
6.	Mrunal Chavan	Bsc III	A A Tayde	Animation on Insertion Sort	https://drive.google.com/open?id=1Hg6TAOL5jAUp-IWZdKzW_bnDrUV65KW
7.	Yogita Jagannatha Patale	B.Com I	A D Bhosale	Economical and social study of general transportation during covid period	https://drive.google.com/open?id=15Mfg2oLxBRbLQ4yxwFWZm5OGqNfrRew
8.	Samiksha Uddhav Bhise	B.Com I	A D Bhosale	ECONOMIC STUDY OF BANKING HABITS IN INDIA (2020-21)	https://drive.google.com/open?id=1qkD0B72y7Y8kT4d37VIs8QQsJq9a42ki
9.	Nikhil Gulve	B.com 2 II	A D Bhosale	Commercial study of business marketing structure of vidharbha region	https://drive.google.com/open?id=15CJkOF6TpW7pkLq5Cks4TmRxAwYlK05G
10.	Shruti Sanjay komte	B.Com I	A D Bhosale	Commercial study of banking system in India 2021-2022	https://drive.google.com/open?id=1IeDQDpABEqK6N9pJTIIZuA4i6wVyps0P
11.	Gayatri Vaishwambar	B.Com I	A D Bhosale	Critical study of Insurance Business in	https://drive.google.com/open?id=1iqf

	Patale			India 2020-2021	1UAKygS5lbHd5sZZUDrMZuE7cWg1
12.	Shraddha Anil Madiwale	B.com II	A D Bhosale	Commercial study of business financial corporation in India	https://drive.google.com/open?id=1hMGSN4L_yZiEi8SVpA1dvmMkmYqE4V2u
13.	Sakshi Ramesh Wankhade	B.com II	A D Bhosale	Infrastructural Study Of MIDC in Maharashtra	https://drive.google.com/open?id=1rcJbRO8a3gXVptFdBRQ7-VXkgAfoDcO
14.	Mamta Rajendra Paraskar	B.Com I	A D Bhosale	critical study of accidental insurance business in Vidarbha	https://drive.google.com/open?id=1BC H87iEwj9NULpbUQxGzyYxkRTAo8UT
15.	Ankita Sanjay Wankhade	B.Com I	A D Bhosale	Economical Survey of Computer Literacy of India 2020-21	https://drive.google.com/open?id=1JTS50J7ooMyNAi0Z6qRyucWistbMJozi
16.	Vaishnavi Santosh Hage	B.Com I	A D Bhosale	Impact of covid-19 on Two-Wheeler market in India	https://drive.google.com/open?id=1h-TZxiwCoYoiUYeNyPRFvm0VBmC09wi8
17.	Harish Sjjvajirao Itey	BCOM II	A D Bhosale	Critical Study of Non-Banking Organization In India 20-21	https://drive.google.com/open?id=1D7kyyaM35hP9IRoVT6qScYVH3TuJvDhm
18.	Tejaswini Prakash Bhople	M.Sc I	H S Chandak	One Pot Synthesis Of Disulfide by S-S coupling Using different Thiols	https://drive.google.com/open?id=1KjFbAmRXXrHFcG0UnPIoFr8Uckt2F-Po
19.	Anjali Kailash Bhonge	MSc I (Chemistry)	H S Chandak	Synthesis of Alkynyl Sulfide form Substituted Disulfide and Ester by using CuI	https://drive.google.com/open?id=1o2YX-uAHo_f9_Q3QINeurIXcWVR-OU07
20.	Kalyani Kisan Patil	MSc I (Chemistry)	H S Chandak	Green synthesis of alkynyl sulfide by using CuO nanoparticles	https://drive.google.com/open?id=1f8AdSsnBGIPVoNRdPXp-2dsJX12AttQs
21.	Monika Manohar Nimbalkar	MSc I (Chemistry)	H S Chandak	"Synthesis of Alkynyl Ester from Propargyl alcohol and 4-halo/nitro Derivative of Aromatic Carboxylic Acid via Steglich Esterification"	https://drive.google.com/open?id=1FFSjT oh_CoQ8fw9Y_v11tP640c3oReda
22.	Pratap Gunji Gadrya	MSc I (Chemistry)	H S Chandak	Synthesis of aromatic alkynyl ester from propargyl alcohol and 4-methyl/methoxy derivative of aromatic carboxylic acid via	https://drive.google.com/open?id=1KISKbPfg2HKOG4jz1ubRGDhXHbp1mxP3

				steglich estrification.	
23.	Ku Priya Rajput	MSc I (Chemistry)	H S Chandak	Cuo- NPs mediated green synthesis of alkynyl sulfide by using Csp- S coupling reaction	https://drive.google.com/open?id=1hiH7Pg3KqPUBgUMTmGTVYJRHZS3wzfZs
24.	Prajakta Gajanan Tekade	BSc III	M O Wankhade	"Forecasting of Gold Price in India using Auto Regressive Integrated Moving Average Model of the time series"	https://drive.google.com/open?id=1hVv1sqXdqtfPe7CoaEhLRbZSIQNiiPB
25.	Vaishnavi Anil Kalane	BSc III	M O Wankhade	Linear Programming Model For Crop Allocation to Major Crops in Saline Tract of Akot Tahsil, Maharashtra	https://drive.google.com/open?id=1oqpBH952KyNSSe99FPE0BGQ9m36hesHx
26.	Ram Gajanan Thomble	BCA III	P E Ajmire	REAL TIME FACE ATTENDANCE SYSTEM USING MACHINE LEARNING	https://drive.google.com/open?id=1f14yQ5XJmkN7bmOjd3AWTj8nH0GjmaDC
27.	Namrata Gajanan Tekade	BSc III	P E Ajmire	To find the color contrast using MATLAB	https://drive.google.com/open?id=1PUEd3QivogKH7Wn6900rJCMKIRc3JhYq
28.	Vaishnavi Sanjay Tikar	M.Sc.-I CS	P E Ajmire	"Use of IOT in Daily Life"	https://drive.google.com/open?id=1sSNig9Z6E6JotZXLGOOdfVbgQHx0dlzE
29.	Prajakta Gajanan Tekade	B. Sc III	P S Bodkhe	Finding Lanes For The Self Driving Cars	https://drive.google.com/open?id=1V1p6KJXg14Ks5vIHTsKBfO9IDhQWZXai
30.	Pooja Ramesh Najardhane	BSC II	P V Ubale	"Bullying is curse to nation : A Statistical perspective study"	https://drive.google.com/open?id=1toZuv8iMOh0ib1dVoYtFLr0-4cnluZ6E1
31.	Ashwini Suresh Patade	BSc III	P V Ubale	Roll of cloud computing in storage of big statistical data	https://drive.google.com/open?id=16W6mT3AMc31jBku-4RcQh8OaClzfnL0
32.	Prajakta Gajanan Tekade	BSc III	P V Ubale	"BIG DATA ANALYTICS AND IT'S STATISTICAL PERSPECTIVE STUDY"	https://drive.google.com/open?id=1kRqZE7uAkcblRRXcQrvtGNarkiQq7QAX
33.	Sakshi Shivaji Patil	BSc III	P V Ubale	Statistical study of new approach quadratic assignment problem and its application.	https://drive.google.com/open?id=1z55P1hkhYfZoZNtdOWuCyKLSHhHf_0xw

34.	Shruti Vinod Sanjore	BSc III	P V Ubale	A New Approach to Solve Transportation Problems	https://drive.google.com/open?id=1d8GTEPuIbC2IJe9SRmupZafLdBHw9
35.	Namrata Gajanan Tekade	BSC III	P V Ubale	Study of Linear Assignment Problem And its Application in Statistics	https://drive.google.com/open?id=1kI32sF3-hKCwnyEoBJKQ6OLtLZ7_C3mA
36.	Bhavana Pardeshi	BSc	D S Talwankar	Preparation of Herbal Hairwash from Locally Available Plants	https://drive.google.com/open?id=14v9GEfaYnQgfqLKHlp0B_oGA_XuYciBG1r
37.	Ashwini Suratsing Chavan	BSc-II	D S Talwankar	Herbal Hair Wash From Locally Available Plants	https://drive.google.com/open?id=1vBn58ayaoX6RAoeZO11uVnY_TocdcEFP
38.	Dhanashree Charansing Tomar	B.sc I	D S Talwankar	Herbal hairwash	https://drive.google.com/open?id=14v9GEfaYnQgfqLKHlp0B_oGA_XuYciBG1r

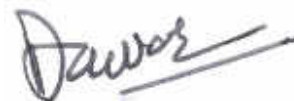
Some of the significant outcomes of these projects are :

1. Research aptitude among the student has been developed.
2. Students learned to search literature and write reports.
3. Students perspective about use of different items have been changed. They now look for the contents in the product, their effects and side effects before using any item.
4. They are showing willingness to work as ambassador for creating awareness among the society.
5. Their confidence level has been raised so that they can come up with new ideas and try new experiments. Ms Anjali Bhonge received WEnyan scholarship of Rs 15500/ month for six months to undertake her masters project



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