



TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

**Affiliated to University of Calcutta & Accredited by NAAC (2016)
[Recognized under section 2(f) of UGC Act 1956]**

(A self-financed Govt. approved Minority Institution run under the auspices of Shree S.S. Jain Sabha)

**6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002
TEL.: 033 25326056 Mob: 9831378911/9831368911**

Criterion 1 – Curricular Aspects

1.3. Curriculum Enrichment

1.3.2. Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year)

CONTENTS:

- 1. Program-wise summary of Project work/field work/internships**
- 2. List of name of students along with title of the project (of all programs/courses who completed)**
- 3. Project completion certificates of students of subjects/courses having project work/field work/internships**
- 4. Internship certificates [of students of BBA (H) and B.Sc. Hons. in Food & Nutrition]**
- 5. Course Objective, type of activity (project work/field work/internships) and duration of all courses**
- 6. Sample copies (cover page, content page with signature) of some of the reports from various departments submitted by the students**



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Summary of Project work/Field work/Internships from various departments

- For Environmental studies (ENVS):**


Subject/Department	No. of students
BBA (H)	65
B.Com (H)	671
B.Sc. Honors in Botany	5
B.Sc. Honors in Computer Science	13
B.A. Honors in English	54
B.Sc. Honors in Food & Nutrition	7
B.Sc. Honors in Geography	13
B. A. Honors in Hindi	11
B.A. Honors in Journalism & Mass Communication	38
B.Sc. Honors in Microbiology	33
B.Sc. Honors in Zoology	5
B.A. (General)	30
B.Com (General)	34
Total	979

- Other Programs:**

Department	Semester	No of students in each semester	Total No. of students from department
BBA (H)	IV	22	71
	VI	49	
B.Com (H)	VI	581	581
B.Sc. Honors in Botany***	III, IV	2	2
B.Sc. Honors in Computer Science	VI	21	21
B.Sc. Honors in Food & Nutrition	III	19	39
	V	20	
B.Sc. Honors in Geography***	V, VI	24	24
JORA	VI	33	33
Microbiology	VI	41	41
Zoology***	V, VI	22	22
	Total		834

*** Same students did project in both the semesters of 2022-23 session

Total number of students who submitted report: (979+834) = **1813**


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 Dr. Mausumi Singh (Sengupta)
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**LIST OF NAME OF STUDENTS WITH TITLE OF
PROJECT
AND
PROJECT COMPLETION CERTIFICATES**

Principal
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Ability Enhance Compulsory Courses AECC-2:

Environmental Studies

(For all Semester II students of BBA/B.Com/B.A/B.Sc.)

➤ Sem II students of BBA (Honours)

Sr. No.	Name of the student	Title of the Project
1	Aditi Barui	Food Waste management in India
2	Adrish Banerjee	Food Waste management in India
3	Astha Singh	Food Waste management in India
4	Hritisha Chatterjee	Food Waste management in India
5	Indrakshi Halder	Food Waste management in India
6	Jaishree Sonkar	Food Waste management in India
7	Jaya Sharma	Food Waste management in India
8	Kiran Nayak	Food Waste management in India
9	Komal Parakh	Food Waste management in India
10	Lipika Jain	Food Waste management in India
11	Madhurima Dhar	Food Waste management in India
12	Nivedita Singh	Food Waste management in India
13	Parijat Ghosh	Food Waste management in India
14	Purnima Shaw	Food Waste management in India
15	Rati Tibrewal	Food Waste management in India
16	Ritwika Mishra	Food Waste management in India
17	Rukmini Chanda	Food Waste management in India
18	Saleha Parveen	Food Waste management in India
19	Satabdi Poddar	Food Waste management in India
20	Simran Shaw	Plastic Pollution in Kolkata
21	Simran Singh	Plastic Pollution in Kolkata
22	Sneha Sharma	Plastic Pollution in Kolkata

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23	Sneha Singh	Plastic Pollution in Kolkata
24	Vanshika Sinha	Plastic Pollution in Kolkata
25	Zia Biswakarma	Plastic Pollution in Kolkata
26	Akshita Singh	Plastic Pollution in Kolkata
27	Shruti Shaw	Plastic Pollution in Kolkata
28	Abhishek Saha	Plastic Pollution in Kolkata
29	Aditya Kumar Singh	Plastic Pollution in Kolkata
30	Akshat Shukla	Plastic Pollution in Kolkata
31	Aman Kumar Jha	Plastic Pollution in Kolkata
32	Anshu Raj	Plastic Pollution in Kolkata
33	Anubhav Pandey	Plastic Pollution in Kolkata
34	Ashmit Kumar Shaw	Plastic Pollution in Kolkata
35	Ashutosh Kashyap	Plastic Pollution in Kolkata
36	Asif Abdulla Khan	Plastic Pollution in Kolkata
37	Avigyan Bhattacharya	Plastic Pollution in Kolkata
38	Barnesh Santra	Plastic Pollution in Kolkata
39	Bibek Singh	Plastic Pollution in Kolkata
40	Chirag Jain	Plastic Pollution in Kolkata
41	Danesh Khan	Plastic Pollution in Kolkata
42	Diptangshu Biswas	Plastic Pollution in Kolkata
43	Gopal Kumar Singh	Plastic Pollution in Kolkata
44	Gourav Kumar Shaw	Plastic Pollution in Kolkata
45	Harsh Jaiswal	Plastic Pollution in Kolkata
46	Ishaan Bhatler	Plastic Pollution in Kolkata
47	Krrish Jaiswal	Plastic Pollution in Kolkata
48	Kshiteej Sharma	Plastic Pollution in Kolkata
49	Md Afzal	Plastic Pollution in Kolkata
50	Md Sohaib Anwar	Plastic Pollution in Kolkata
51	Md Zaid Wali	Plastic Pollution in Kolkata

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52	Priyanshu Arya	Plastic Pollution in Kolkata
53	Priyanshu Singh	Plastic Pollution in Kolkata
54	Ranjit Sinha	Plastic Pollution in Kolkata
55	Safikul Rahaman	Plastic Pollution in Kolkata
56	Sanskar Shukla	Plastic Pollution in Kolkata
57	Saumyojit Dutta	Plastic Pollution in Kolkata
58	Soham Goswami	Plastic Pollution in Kolkata
59	Sristinil Samanta	Plastic Pollution in Kolkata
60	Subhradeep Saha	Plastic Pollution in Kolkata
61	Sunny Kumar Singh	Plastic Pollution in Kolkata
62	Suraj Gupta	Plastic Pollution in Kolkata
63	Suryakant Raut	Plastic Pollution in Kolkata
64	Utkarsh Munka	Plastic Pollution in Kolkata
65	Yash Bhati	Plastic Pollution in Kolkata

➤ Sem II students of B.Com (Honours):

Sr. No.	Name of the student	Title of the Project
1	AAKANSHA AGARWAL	Animal Biodiversity in West Bengal
2	AASTHA GUPTA	A Project Report On Street Food poisoning on Human Health
3	AASTHA JAISWAL	Animal Biodiversity in West Bengal
4	AASTHA RAI	Animal Biodiversity in West Bengal
5	ADITI SHANDILYA	A Project Report On Street Food poisoning on Human Health
6	ADITI SINGH	Animal Biodiversity in West Bengal
7	ADRIJA GOSWAMI	A Project Report On Street Food poisoning on Human Health

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8	AHONA SEAL	We are losing the saviour - The Mangrove
9	AISHWARYA GUPTA	Animal Biodiversity in West Bengal
10	AKANKSHA MISHRA	Animal Biodiversity in West Bengal
11	AKANSHA SINGH	Animal Biodiversity in West Bengal
12	AMRIT KOUR SANDHU	A Project Report On Street Food poisoning on Human Health
13	ANAMIKA SAHA	A Project Report On Street Food poisoning on Human Health
14	ANISHA SINGH	Animal Biodiversity in West Bengal
15	ANISHKA SHAW	Animal Biodiversity in West Bengal
16	ANJALI BHARTI	A Project Report On Street Food poisoning on Human Health
17	ANJALI CHATURVEDI	Animal Biodiversity in West Bengal
18	ANJALI KUMARI	Animal Biodiversity in West Bengal
19	ANJALI KUMARI SHAW	Animal Biodiversity in West Bengal
20	ANJALI SHARMA	A Project Report On Street Food poisoning on Human Health
21	ANJULI MANDAL	Animal Biodiversity in West Bengal
22	ANKITA ADHIKARY	Animal Biodiversity in West Bengal
23	ANKITA JHA	Animal Biodiversity in West Bengal
24	ANSHUL KUMARI OJHA	A Project Report On Street Food poisoning on Human Health
25	ANUSHA GUPTA	Animal Biodiversity in West Bengal
26	ANUSHKA UPADHYAY	Animal Biodiversity in West Bengal
27	ANUSKA GANGULY	A Project Report On Street Food poisoning on Human Health
28	ARCHANA MONDAL	Animal Biodiversity in West Bengal
29	ARCHANA UPADHYAY	A Project Report On Street Food poisoning on Human Health

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30	ARCHI GUPTA	Animal Biodiversity in West Bengal
31	ARPITA AGRAWAL	Animal Biodiversity in West Bengal
32	ARPITA SHAW	A Project Report On Street Food poisoning on Human Health
33	ARSHI SAJJAD	Animal Biodiversity in West Bengal
34	ASTHA KUMARI	Animal Biodiversity in West Bengal
35	AVANTIKA GOSWAMI	A Project Report On Street Food poisoning on Human Health
36	AYESHA SIDDIQUE	Animal Biodiversity in West Bengal
37	BHAWANA KABRA	Animal Biodiversity in West Bengal
38	BHUMI AGARWAL	Animal Biodiversity in West Bengal
39	BHUMIKA	A Project Report On Street Food poisoning on Human Health
40	BHUMIKA GUPTA	We are losing the saviour - The Mangrove
41	CHANCHAL KOTHARI	Animal Biodiversity in West Bengal
42	CHANCHAL VERMA	Animal Biodiversity in West Bengal
43	CHETNA SAHAL	Animal Biodiversity in West Bengal
44	CHITRITA DAS	A Project Report On Street Food poisoning on Human Health
45	DARAKSHA AFREEN	Animal Biodiversity in West Bengal
46	DEBLINA BANERJEE	Animal Biodiversity in West Bengal
47	DEBOLINA GHOSH	A Project Report On Street Food poisoning on Human Health
48	DHRITIDIPA BOSE	Animal Biodiversity in West Bengal
49	DIVYA BAID	Animal Biodiversity in West Bengal
50	DIYA AGARWAL	Animal Biodiversity in West Bengal
51	DIYA SHARMA	Animal Biodiversity in West Bengal
52	DIYA YADAV	Animal Biodiversity in West Bengal
53	EFRA FATMA	Animal Biodiversity in West Bengal

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55	ESHA SWAIKA	Animal Biodiversity in West Bengal
56	FALGUNI MONDAL	Animal Biodiversity in West Bengal
57	FATMA KHATOON	A Project Report On Street Food poisoning on Human Health
58	FIRDOUS	Animal Biodiversity in West Bengal
59	HANSHIKA CHOURASIA	Animal Biodiversity in West Bengal
60	HARJEET KAUR	Animal Biodiversity in West Bengal
61	HARSHITA KHATER	Animal Biodiversity in West Bengal
62	IBTESAM NEYAZ	A Project Report On Street Food poisoning on Human Health
63	INSHA NIZAM	A Project Report On Street Food poisoning on Human Health
64	ISHA AGARWAL	A Project Report On Street Food poisoning on Human Health
65	ISHIKA AGARWAL	Animal Biodiversity in West Bengal
66	ISHIKA JAISWAL	A Project Report On Street Food poisoning on Human Health
67	ISHIKA SINGH	Animal Biodiversity in West Bengal
68	ISHITA MALLICK	A Project Report On Street Food poisoning on Human Health
69	JYOTIPRAVA BEHERA	Animal Biodiversity in West Bengal
70	KALY GUPTA	A Project Report On Street Food poisoning on Human Health
71	KAPOOR SARGAM YOGENDRA	A Project Report On Street Food poisoning on Human Health
72	KASHISH AGARWAL	A Project Report On Street Food poisoning on Human Health
73	KASISH JAISWAL	Animal Biodiversity in West Bengal

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74	KHUSHBOO SINGH	A Project Report On Street Food poisoning on Human Health
75	KHUSHBU MAROTI	Animal Biodiversity in West Bengal
76	KHUSHI	A Project Report On Street Food poisoning on Human Health
77	KHUSHI BALMIKI	A Project Report On Street Food poisoning on Human Health
78	KHUSHI CHHANGANI	Animal Biodiversity in West Bengal
79	KHUSHI GUPTA	A Project Report On Street Food poisoning on Human Health
80	KHUSHI PANDEY	Animal Biodiversity in West Bengal
81	KHUSHI RAI	Animal Biodiversity in West Bengal
82	KHUSHI SONTALIA	Animal Biodiversity in West Bengal
83	KHUSHI TULSYAN	Animal Biodiversity in West Bengal
84	KHUSPREET KAUR	A Project Report On Street Food poisoning on Human Health
85	KIRAN JHA	Animal Biodiversity in West Bengal
86	KIRTI VERMA	Animal Biodiversity in West Bengal
87	KOENA GHOSH	Solid Waste Management in Kolkata
88	KRISHNA BASIA	A Project Report On Street Food poisoning on Human Health
89	KRIKA JAISWAL	Solid Waste Management in Kolkata
90	KUNJAN JOSHI	Solid Waste Management in Kolkata
91	LABIBA ZARIN	Solid Waste Management in Kolkata
92	LAVANYA GUPTA	Solid Waste Management in Kolkata
93	LIZZA KHATUN	Solid Waste Management in Kolkata
94	MADHURI MUNDHRA	We are losing the saviour - The Mangrove
95	MAHEK GUPTA	Solid Waste Management in Kolkata
96	MAHI JAIN	Solid Waste Management in Kolkata

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97	MANSHI KUMARI RAY	A Project Report On Street Food poisoning on Human Health
98	MANSHI SINHA	Disease Prediction in Modern World due to Environmental Changes
99	MANVI SHAW	Solid Waste Management in Kolkata
100	MANYA GUPTA	Solid Waste Management in Kolkata
101	MANYA KUMARI	We are losing the saviour - The Mangrove
102	MANYA SINGH	Solid Waste Management in Kolkata
103	MEHULI MUKHERJEE	Solid Waste Management in Kolkata
104	MUSKAAN JAIN	Solid Waste Management in Kolkata
105	MUSKAN JAISWAL	Solid Waste Management in Kolkata
106	MUSKAN SINGH	Solid Waste Management in Kolkata
107	NAINAN CHAURASIA	Solid Waste Management in Kolkata
108	NAMRATA PURI	Global Forest Cover Changes due to Anthropogenic Activity
109	NANDANI VERMA	Solid Waste Management in Kolkata
110	NANDINI DAS	We are losing the saviour - The Mangrove
111	NANDINI JAISWAL	Solid Waste Management in Kolkata
112	NATASHA JAIN	Solid Waste Management in Kolkata
113	NEHA DAS	Solid Waste Management in Kolkata
114	NEHA PAREEK	Solid Waste Management in Kolkata
115	NEHA SHROFF	Solid Waste Management in Kolkata
116	NEHA SINGH	Solid Waste Management in Kolkata
117	NIDHI JAISWAL	Global Forest Cover Changes due to Anthropogenic Activity
118	NIKITA	Solid Waste Management in Kolkata
119	NISHA BHARGAV	Solid Waste Management in Kolkata
120	NISHA MAHESHWARI	Solid Waste Management in Kolkata
121	NISHA PRASAD	Solid Waste Management in Kolkata

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122	NISHTHA KOCHAR	Solid Waste Management in Kolkata
123	NISHU PANDIT	Solid Waste Management in Kolkata
124	NITISHA CHOWDHURY	Solid Waste Management in Kolkata
125	PALAK GUPTA	We are losing the saviour - The Mangrove
126	PARIDHI SUROLIA	Solid Waste Management in Kolkata
127	PARWATI MAHATO	Solid Waste Management in Kolkata
128	PATRALEKHA KARMAKAR	Solid Waste Management in Kolkata
129	POOJA SADASHIV SURYAVANSHI	Solid Waste Management in Kolkata
130	POONAM CHOUDHARY	Global Forest Cover Changes due to Anthropogenic Activity
131	PRAGATI SONI	Solid Waste Management in Kolkata
132	PRAKRITI RAUT	Solid Waste Management in Kolkata
133	PRANJAL JAISWAL	Solid Waste Management in Kolkata
134	PRERNA CHOUDHARY	Solid Waste Management in Kolkata
135	PRITISHA DAS	Solid Waste Management in Kolkata
136	PRIYA SHAW	Solid Waste Management in Kolkata
137	PRIYANKA CHITLANGIA	Solid Waste Management in Kolkata
138	PRIYANKA PAUL	Solid Waste Management in Kolkata
139	PRIYANKA SHARMA	Solid Waste Management in Kolkata
140	PRIYANKA SHAW	Solid Waste Management in Kolkata
141	PROGHYA GUPTA	Global Forest Cover Changes due to Anthropogenic Activity
142	RAGINI RAI	Solid Waste Management in Kolkata
143	RAIMA KHATUN	Global Forest Cover Changes due to Anthropogenic Activity
144	RAJ KHUSHI SINGH	Solid Waste Management in Kolkata

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145	RAJNI KUMARI TAPARIA	Solid Waste Management in Kolkata
146	RASHI	Global Forest Cover Changes due to Anthropogenic Activity
147	RASHMI JHA	Solid Waste Management in Kolkata
148	RICHA AGARWAL	Global Cancer Scenario due to Anthropogenic Changes
149	RICHA MISHRA	Effects of Cyclone in Agricultural Field
150	RIDDHI DAS	Solid Waste Management in Kolkata
151	RIDHI SINGH	Solid Waste Management in Kolkata
152	RIMA ROY	Solid Waste Management in Kolkata
153	RIMJHIM BHAGAT	Solid Waste Management in Kolkata
154	RISHIKA KESHARI	Solid Waste Management in Kolkata
155	RITEEKA GUPTA	Solid Waste Management in Kolkata
156	RITIKA AGARWAL	Solid Waste Management in Kolkata
157	RITUPARNA SAHA	Solid Waste Management in Kolkata
158	RITWIK BAHADUR	Effects of Cyclone in Agricultural Field
159	RIYA KUMARI	Solid Waste Management in Kolkata
160	RIYA SINGH	Global Cancer Scenario due to Anthropogenic Changes
161	RIYAN BALMIKI	Effects of Cyclone in Agricultural Field
162	ROSHNI BHARGAV	Global Cancer Scenario due to Anthropogenic Changes
163	ROSHNI DAS	Global Water Resources Crises
164	ROSHNI GUPTA	Effects of Cyclone in Agricultural Field
165	ROSHNI JAISWAL	Effects of Cyclone in Agricultural Field
166	ROSHNI JHA	Global Cancer Scenario due to Anthropogenic Changes
167	SAKCHI SHAW	Effects of Cyclone in Agricultural Field



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168	SAKSHI AGARWAL	Global Cancer Scenario due to Anthropogenic Changes
169	SAKSHI KAPUR	Global Cancer Scenario due to Anthropogenic Changes
170	SAKSHI KUMARI	Global Cancer Scenario due to Anthropogenic Changes
171	SALONI KEDIA	Global Cancer Scenario due to Anthropogenic Changes
172	SALONI SHUKLA	Global Cancer Scenario due to Anthropogenic Changes
173	SAMREEN NIGAR	Global Cancer Scenario due to Anthropogenic Changes
174	SANA SAMIM	Effects of Cyclone in Agricultural Field
175	SANIYA SHAW	Effects of Cyclone in Agricultural Field
176	SANJANA GUPTA	Global Cancer Scenario due to Anthropogenic Changes
177	SANJANA JAIN	Global Cancer Scenario due to Anthropogenic Changes
178	SANJANA PANDEY	Global Cancer Scenario due to Anthropogenic Changes
179	SANJANA SAHA	Global Cancer Scenario due to Anthropogenic Changes
180	SANSKRITI BHAGAT	Effects of Cyclone in Agricultural Field
181	SANYA TIWARI	Global Cancer Scenario due to Anthropogenic Changes
182	SAPNA JHA	Global Cancer Scenario due to Anthropogenic Changes
183	SHAKSHI CHOWDHARY	Global Cancer Scenario due to Anthropogenic Changes

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184	SHAKSHI JAIN	Global Cancer Scenario due to Anthropogenic Changes
185	SHALINI KUMARI GUPTA	Global Cancer Scenario due to Anthropogenic Changes
186	SHIBANI TEWARI	Effects of Cyclone in Agricultural Field
187	SHINJANI MITRA	Global Cancer Scenario due to Anthropogenic Changes
188	SHIWANGI JAISWAL	Global Cancer Scenario due to Anthropogenic Changes
189	SHRADHYA GHOSH	Global Cancer Scenario due to Anthropogenic Changes
190	SHREYA MUKHERJEE	Effects of Cyclone in Agricultural Field
191	SHREYA DADHICH	Global Cancer Scenario due to Anthropogenic Changes
192	SHREYA DUBEY	Global Cancer Scenario due to Anthropogenic Changes
193	SHREYA GUPTA	Effects of Cyclone in Agricultural Field
194	SHREYA GUPTA	Global Cancer Scenario due to Anthropogenic Changes
195	SHREYA JAISWAL	Global Cancer Scenario due to Anthropogenic Changes
196	SHRISTI SHARMA	Global Cancer Scenario due to Anthropogenic Changes
197	SHRUTI AGARWAL	Global Cancer Scenario due to Anthropogenic Changes
198	SHRUTI AGARWALA	Global Cancer Scenario due to Anthropogenic Changes
199	SHRUTI CHOURASIA	Global Cancer Scenario due to Anthropogenic Changes

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200	SHRUTI SHARMA	Global Cancer Scenario due to Anthropogenic Changes
201	SHRUTI SINGH	Global Cancer Scenario due to Anthropogenic Changes
202	SHRUTI SINGH	Effects of Cyclone in Agricultural Field
203	SHRUTI SINGHEE	Global Cancer Scenario due to Anthropogenic Changes
204	SHRUTI TIWARI	Global Cancer Scenario due to Anthropogenic Changes
205	SIMRAN RUNGTA	Global Cancer Scenario due to Anthropogenic Changes
206	SMRITI SHAW	Global Cancer Scenario due to Anthropogenic Changes
207	SNEHA AGARWAL	Global Cancer Scenario due to Anthropogenic Changes
208	SNEHA DAS	Effects of Cyclone in Agricultural Field
209	SNEHA JAISWAL	Effects of Cyclone in Agricultural Field
210	SNEHA KUMARI SINGH	Effects of Cyclone in Agricultural Field
211	SNEHA KUMARI YADAV	Effects of Cyclone in Agricultural Field
212	SNEHA RAI	Disease Prediction in Modern World due to Environmental Changes
213	SNEHA RUNGTA	Disease Prediction in Modern World due to Environmental Changes
214	SNEHA SHAW	Disease Prediction in Modern World due to Environmental Changes
215	SNEHA SHAW	Disease Prediction in Modern World due to Environmental Changes
216	SNEHA SHAW	Effects of Cyclone in Agricultural Field

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217	SNEHA SINGH	Disease Prediction in Modern World due to Environmental Changes
218	SNEHASHREE MAITI	Disease Prediction in Modern World due to Environmental Changes
219	SOHINI DAS	Effects of Cyclone in Agricultural Field
220	SONAL TULASYAN	Disease Prediction in Modern World due to Environmental Changes
221	SREEJA DAS	Disease Prediction in Modern World due to Environmental Changes
222	SREYASHI PAUL	Effects of Cyclone in Agricultural Field
223	SRISHTI DHAVLE	Disease Prediction in Modern World due to Environmental Changes
224	SRUTI RATHI	Disease Prediction in Modern World due to Environmental Changes
225	SUBHASHMITA MONDAL	Effects of Cyclone in Agricultural Field
226	SUHANI GUPTA	Disease Prediction in Modern World due to Environmental Changes
227	SUPARNA	Disease Prediction in Modern World due to Environmental Changes
228	CHATTERJEE	
229	SWAMIYA PANDIT	Effects of Cyclone in Agricultural Field
230	SWASTIKA NAYAK	Disease Prediction in Modern World due to Environmental Changes
231	SWATI DUBEY	Effects of Cyclone in Agricultural Field
232	SWATI KHATICK	Effects of Cyclone in Agricultural Field
233	TABASSUM TAJ	Disease Prediction in Modern World due to Environmental Changes
234	TAMANNA JAISWAL	Disease Prediction in Modern World due to Environmental Changes

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235	TANIA JAISWAL	Disease Prediction in Modern World due to Environmental Changes
236	TANISHA JALAN	Effects of Cyclone in Agricultural Field
237	TANISHA MUKHERJEE	Effects of Cyclone in Agricultural Field
238	TANIYA	Disease Prediction in Modern World due to Environmental Changes
239	TANNU PRIYA SINGH	Disease Prediction in Modern World due to Environmental Changes
240	TANVI SHAW	Disease Prediction in Modern World due to Environmental Changes
241	TARANNUM PARVEEN	Disease Prediction in Modern World due to Environmental Changes
242	TEJYOSINI DUTTA	Effects of Cyclone in Agricultural Field
243	TITLY SAHA	Effects of Cyclone in Agricultural Field
244	TRIPTI GOYAL	Disease Prediction in Modern World due to Environmental Changes
245	TRIPTI RUIA	Effects of Cyclone in Agricultural Field
246	TRISHITA GHOSH	Disease Prediction in Modern World due to Environmental Changes
247	TRISHNA SONKAR	Effects of Cyclone in Agricultural Field
248	TULIKA BAID	Disease Prediction in Modern World due to Environmental Changes
249	UMA BISWAKARMA	Disease Prediction in Modern World due to Environmental Changes
250	UNNATI MUNDHRA	Disease Prediction in Modern World due to Environmental Changes
251	UPASANA DUBEY	Disease Prediction in Modern World due to Environmental Changes

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252	URMI GOSWAMI	Disease Prediction in Modern World due to Environmental Changes
253	URVASI SHARMA	Disease Prediction in Modern World due to Environmental Changes
254	VAISHNO PANDEY	Disease Prediction in Modern World due to Environmental Changes
255	VARSHA VYAS	Disease Prediction in Modern World due to Environmental Changes
256	VINITA SETHIA	Disease Prediction in Modern World due to Environmental Changes
257	VISHAKHA BAJAJ	Disease Prediction in Modern World due to Environmental Changes
258	ZIKRA SALAHUDDIN	Disease Prediction in Modern World due to Environmental Changes
259	AAGAM JAIN	Contaminated Water -A Source of Diseases
260	AARYAN GUPTA	Contaminated Water -A Source of Diseases
261	AARYAN RAI	Contaminated Water -A Source of Diseases
262	AASIR KHAN	Contaminated Water -A Source of Diseases
263	AAYAN HUSSAIN LODHI	Contaminated Water -A Source of Diseases
264	AAYUG JAIN	Contaminated Water -A Source of Diseases
265	AAYUSH GUPTA	Contaminated Water -A Source of Diseases
266	AAYUSH SAHA	Effects of Cyclone on Human Health
267	ABHAY JAISWAL	Contaminated Water -A Source of Diseases
268	ABHIJIT PAUL	Street Food Poisoning in Kolkata
269	ABHISHEK CHOUBEY	Contaminated Water -A Source of Diseases
270	ABHISHEK HARITWAL	Contaminated Water -A Source of Diseases
271	ABHISHEK JHA	Contaminated Water -A Source of Diseases
272	ABHISHEK KUMAR	Contaminated Water -A Source of Diseases
273	ABHISHEK SINGH	Contaminated Water -A Source of Diseases

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274	ABUL SUFIAN	Street Food Poisoning in Kolkata
275	ADARSH SHARMA	Street Food Poisoning in Kolkata
276	ADITYA JAIN	Street Food Poisoning in Kolkata
277	ADITYA CHOURASIA	Contaminated Water -A Source of Diseases
278	ADITYA DAYMA	Contaminated Water -A Source of Diseases
279	ADITYA JAISWAL	Contaminated Water -A Source of Diseases
280	ADITYA JAISWAL	Contaminated Water -A Source of Diseases
281	ADITYA KUMAR	Contaminated Water -A Source of Diseases
282	ADITYA KUMAR SAHANI	Contaminated Water -A Source of Diseases
283	ADITYA PANDEY	Contaminated Water -A Source of Diseases
284	ADITYA PODDAR	Contaminated Water -A Source of Diseases
285	ADITYA RAY	Street Food Poisoning in Kolkata
286	ADITYA SAWANT	Contaminated Water -A Source of Diseases
287	ADITYA SINGH	Contaminated Water -A Source of Diseases
288	ADITYA TEWARI	Contaminated Water -A Source of Diseases
289	AJAY KUMAR SHAW	Contaminated Water -A Source of Diseases
290	AKARSH SMRITI	Contaminated Water -A Source of Diseases
291	AKASH AGARWAL	Contaminated Water -A Source of Diseases
292	AKASH SHARMA	Street Food Poisoning in Kolkata
293	AKASH YADAV	Contaminated Water -A Source of Diseases
294	AKSHAT GUPTA	Contaminated Water -A Source of Diseases
295	AKSHAY PANDEY	Street Food Poisoning in Kolkata
296	ALI AFAQUE SABRI	Contaminated Water -A Source of Diseases
297	ALTAMASH AHMED	Street Food Poisoning in Kolkata
298	AMAAN HUSSAIN	Contaminated Water -A Source of Diseases
299	AMAN CHOUBEY	Effect of cyclone on Human Health
300	AMAN DAS	Street Food Poisoning in Kolkata
301	AMAN EKBAL	Contaminated Water -A Source of Diseases
302	AMAN GOENKA	Contaminated Water -A Source of Diseases

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303	AMAN KUMAR SHAW	Contaminated Water -A Source of Diseases
304	AMAN SHAW	Contaminated Water -A Source of Diseases
305	AMAN TIWARI	Contaminated Water -A Source of Diseases
306	AMAN TIWARI	Street Food Poisoning in Kolkata
307	AMIT KUMAR MANDAL	Contaminated Water -A Source of Diseases
308	AMIT SAH	Contaminated Water -A Source of Diseases
309	ANAND KUMAR CHOUDHARY	Street Food Poisoning in Kolkata
310	ANANTA SHARMA	Contaminated Water -A Source of Diseases
311	ANEESH KAR	Street Food Poisoning in Kolkata
312	ANIKET SHAW	Street Food Poisoning in Kolkata
313	ANIMESH HANSDA	Street Food Poisoning in Kolkata
314	ANISH BOTHARA	Contaminated Water -A Source of Diseases
315	ANISH GUPTA	Contaminated Water -A Source of Diseases
316	ANISH KISHOR VERMA	Contaminated Water -A Source of Diseases
317	ANISH SHAW	Effect of cyclone on Human Health
318	ANIT DUTTA	Contaminated Water -A Source of Diseases
319	ANKIT AGRAWAL	Contaminated Water -A Source of Diseases
320	ANKIT BHATTACHARJEE	Contaminated Water -A Source of Diseases
321	ANKIT DATTA	Street Food Poisoning in Kolkata
322	ANKIT JAISWAL	Street Food Poisoning in Kolkata
323	ANKIT PODDAR	Street Food Poisoning in Kolkata
324	ANKIT YADAV	Contaminated Water -A Source of Diseases
325	ANKUSH KUMAR SINGH	Contaminated Water -A Source of Diseases
326	ANSH DUBEY	Street Food Poisoning in Kolkata
327	ANSH JHUNJHUNWALA	Contaminated Water -A Source of Diseases
328	ANSHU KUMAR LAL DAS	Contaminated Water -A Source of Diseases
329	ANUBHAW AGARWAL	Effects of Packaged Food on Human Health

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330	ANUJ KUMAR YADAV	Effects of Packaged Food on Human Health
331	ANURAG TIWARI	Effects of Packaged Food on Human Health
332	AQUIL IQBAL	Street Food Poisoning in Kolkata
333	ARCHISMAN DUTTA	Effects of Cyclone on Human Health
334	AREEB ASHHAR	Street Food Poisoning in Kolkata
335	ARIF HAQUE	Street Food Poisoning in Kolkata
336	ARIJIT GHOSH	Contaminated Water -A Source of Diseases
337	ARKAN RAKSHIT	Street Food Poisoning in Kolkata
338	ARNAB DUTTA	Effects of Cyclone on Human Health
339	ARNAV KHATTRY	Effects of Packaged Food on Human Health
340	ARNAV RAWAT	Effects of Packaged Food on Human Health
341	ARPIT SHAW	Effects of Cyclone on Human Health
342	ARUN KOTHARI	Contaminated Water -A Source of Diseases
343	ARYAN BANIA	Drinking Water pollution in West Bengal
344	ARYAN GUPTA	Effects of Package Food on human Health
345	ARYAN GUPTA	Effects of Package Food on human Health
346	ARYAN JAISWAL	Effects of Package Food on human Health
347	ARYAN KUMAR SINGH	Effects of Cyclone on Human Health
348	ARYAN SHAW	Effects of Package Food on human Health
349	ARYAN SHAW	Effects of Package Food on human Health
350	ARYAN SINGH	Drinking Water pollution in West Bengal
351	ARYAN SINGH AZAD	Effects of Packaged Food on Human Health
352	ARYAN SRIVASTAV	Effects of Packaged Food on Human Health
353	ASHISH AGARWAL	Effects of Packaged Food on Human Health
354	ASHISH KUMAR	Effects of Packaged Food on Human Health
355	ASHISH KUMAR SINGH	Drinking Water pollution in West Bengal
356	ASHISH KUMAR SINGH	Effects of Packaged Food on Human Health
357	ASHISH PATHAK	Effects of Packaged Food on Human Health
358	ASHISH PAUL	Effects of Cyclone on Human Health

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359	ASHUTOSH KUMAR SINGH	Effects of Packaged Food on Human Health
360	ASHWANI KUMAR RAI	Effects of Packaged Food on Human Health
361	AVIRAV ROY	Effects of Packaged Food on Human Health
362	AVISHEK HALDER	Effects of Packaged Food on Human Health
363	AVISHEK MANNA	Drinking Water pollution in West Bengal
364	AYANAVA DAS	Effects of Packaged Food on Human Health
365	AYUSH BAID	Effects of Packaged Food on Human Health
366	AYUSH CHOUDHURY	We Are Losing the savior- The Mangrove
367	AYUSH KUMAR JAISWAL	Effects of Packaged Food on Human Health
368	AYUSH KUMAR SONAR	Effects of Packaged Food on Human Health
369	AYUSH MISHRA	Effects of Packaged Food on Human Health
370	AYUSH ROY	Effects of Packaged Food on Human Health
371	AYUSH SARKAR	Effects of Cyclone on Human Health
372	BAIBHAV SARAOGI	Effects of Packaged Food on Human Health
373	BAID VAIBHAV	Effects of Cyclone on Human Health
374	BHASKAR AGARWALA	Effects of Packaged Food on Human Health
375	BHAVYA PATNI JAIN	Effects of Packaged Food on Human Health
376	BILAL KHICHI	Effects of Packaged Food on Human Health
377	BISWAJIT MURUNI	Drinking Water pollution in West Bengal
378	BRIJ BHANU SHARMA	Effects of Packaged Food on Human Health
379	CHANDRA SEKHAR DALMIA	Effects of Packaged Food on Human Health
380	CHIRAG BARMA	Effects of Packaged Food on Human Health
381	CHIRAG BAXI	Effects of Packaged Food on Human Health
382	CHIRAG KUMAR SETH	Drinking Water pollution in West Bengal
383	CHIRAG KUMAR SHAW	Drinking Water pollution in West Bengal
384	DEB BARADIA	Drinking Water pollution in West Bengal
385	DEEP SABOO	Effects of Packaged Food on Human Health
386	DEEPAK AGARWAL	Effects of Packaged Food on Human Health

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387	DEEPAK SINGH	Effects of Packaged Food on Human Health
388	DEEPTA CHAKRABORTY	Effects of Packaged Food on Human Health
389	DHRUV CHANDAK	Effects of Packaged Food on Human Health
390	DINESH SONI	Effects of Packaged Food on Human Health
391	DIPANJAN NATH	Effects of Packaged Food on Human Health
392	DIPANSHU SONI	Effects of Packaged Food on Human Health
393	DIPESH GUPTA	Effects of Packaged Food on Human Health
394	DIPTTANGSHU DHAR	Drinking Water pollution in West Bengal
395	EHAAN ALI	Drinking Water pollution in West Bengal
396	GAGANDEEP SINGH	Drinking Water pollution in West Bengal
397	GANESH SHARMA	Effects of Packaged Food on Human Health
398	GARV GUPTA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
399	GOPAL AGARWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
400	GOURAV KOTHARI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
401	GOURAV KUMAR CHOUDHARY	Global Cancer Scenario due to Anthropogenic Changes of our Environment
402	GOURAV SAHA	Drinking Water pollution in West Bengal
403	GOUTAM MANOT	Global Cancer Scenario due to Anthropogenic Changes of our Environment
404	GOVIND JANGIR	Global Cancer Scenario due to Anthropogenic Changes of our Environment
405	GULAM NABI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
406	HARKIRAT SINGH	Global Cancer Scenario due to Anthropogenic Changes of our Environment

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407	HARSH AGARWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
408	HARSH AGARWALA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
409	HARSH CHOUDHARY	Global Cancer Scenario due to Anthropogenic Changes of our Environment
410	HARSH JAISWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
411	HARSH KUMAR GIRI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
412	HARSH KUMAR GUPTA	Effects of Cyclone on Human Health
413	HARSH KUMAR SINGH	Global Cancer Scenario due to Anthropogenic Changes of our Environment
414	HARSH PRATAP	Global Cancer Scenario due to Anthropogenic Changes of our Environment
415	HARSH SHARMA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
416	HARSH SINGH	Global Cancer Scenario due to Anthropogenic Changes of our Environment
417	HARSH TRIVEDI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
418	HARSHIT JAIN	Global Cancer Scenario due to Anthropogenic Changes of our Environment
419	HARSHIT BHAGAT	Global Cancer Scenario due to Anthropogenic Changes of our Environment
420	HARSHIT CHOWDHURY	Global Cancer Scenario due to Anthropogenic Changes of our Environment
421	HEMANT SHAW	Drinking Water pollution in West Bengal

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422	HIMANSHU SOMANI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
423	HRISHAV KANKARIA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
424	INDRESH VIKRAM SINGH	Global Cancer Scenario due to Anthropogenic Changes of our Environment
425	JAI AGARWAL	Drinking Water pollution in West Bengal
426	JOY SENAPATI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
427	KAMAL SARKAR	Effects of Cyclone on Human Health
428	KARAN SARDA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
429	KARAN SHAW	Effects of Cyclone on Human Health
430	KARANAM AVINASH	Effects of Cyclone on Human Health
431	KASIF AMBER	Global Cancer Scenario due to Anthropogenic Changes of our Environment
432	KESHAV RAJ GUPTA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
433	KORIAN BARA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
434	KOUSHIK SHAW	Effects of Cyclone on Human Health
435	KRISH AGARWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
436	KRISH KARIWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
437	KRISHNA JAISWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
438	KRISHNA SONI	Effects of Cyclone on Human Health

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439	KRISHNAM RATHI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
440	KULDEEP SINGH RATHORE	Global Cancer Scenario due to Anthropogenic Changes of our Environment
441	KUSHAGRA LOHANI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
442	KUSHAN SHAW	Effects of Cyclone on Human Health
443	MANAV SUREKA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
444	MANISH KUMAR JAISWAL	Global Cancer Scenario due to Anthropogenic Changes of our Environment
445	MANISH SHARMA	Drinking Water pollution in West Bengal
446	MANISH SHARMA	Global Cancer Scenario due to Anthropogenic Changes of our Environment
447	MANNAT SHAW	Effects of Cyclone on Human Health
448	MAYANK DUBEY	Global Cancer Scenario due to Anthropogenic Changes of our Environment
449	MAYANK JOSHI	Global Cancer Scenario due to Anthropogenic Changes of our Environment
450	MAYANK TATER	Global Cancer Scenario due to Anthropogenic Changes of our Environment
451	MAYANK TULSAN	Global Cancer Scenario due to Anthropogenic Changes of our Environment
452	MD ASAD	Effects of Cyclone on Human Health
453	MD AMAN SOLANKI	Plastic pollution in Kolkata
454	MD FAHAD PERWAIZ	Global Cancer Scenario due to Anthropogenic Changes of our Environment
455	MD FARDEEN SOLANKI	Drinking Water pollution in West Bengal
456	MD FARDEEN ZAKIR	Drinking Water pollution in West Bengal

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457	MD NADIM SK	Global Cancer Scenario due to Anthropogenic Changes of our Environment
458	MD RASHID	Drinking Water pollution in West Bengal
459	MD SAHIL NAHAR	Drinking Water pollution in West Bengal
460	MD SALMAN OMAR	Global Cancer Scenario due to Anthropogenic Changes of our Environment
461	MD TARUN	Urbanization & Environment
462	MD TOUFIQUE UMAR	Drinking Water pollution in West Bengal
463	MD ZEESHAN	Urbanization & Environment
464	MEHUL YADAV	Urbanization & Environment
465	MIHIR GIRI	Urbanization & Environment
466	MITHLESH SAHANI	Plastic pollution in Kolkata
467	MOHAMMAD AMMAR ANIS	Urbanization & Environment
468	MOHIT BHAWSINGHKA	Urbanization & Environment
469	MOHIT KUMAR AGRAWAL	Urbanization & Environment
470	MOHIT SHAW	Urbanization & Environment
471	MONIS ANWAR	Effects of Cyclone on Human Health
472	MRIDUL GUPTA	Plastic pollution in Kolkata
473	MUNNA YADAV	Urbanization & Environment
474	MUZAMMIL SHABBIR	Plastic pollution in Kolkata
475	NAKUL BALASARIA	Urbanization & Environment
476	NAMAN KUMAR BAIS	Plastic pollution in Kolkata
477	NAMAN SETHIA	Urbanization & Environment
478	NIRAJ YADAV	Urbanization & Environment
479	NITIN SONI	Urbanization & Environment
480	OM ADITYA PANDEY	Plastic pollution in Kolkata
481	OM SONKAR	Urbanization & Environment
482	ONJISHNU SARKAR	Effects of Cyclone on Human Health

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483	PARMESHWAR BAID	Urbanization & Environment
484	PAWAN KUMAR	Urbanization & Environment
485	PIYUSH GUPTA	Plastic pollution in Kolkata
486	PIYUSH JAISWAL	Urbanization & Environment
487	PIYUSH PRASAD SAH	Urbanization & Environment
488	PRABHAT KUMAR SINGH	Urbanization & Environment
489	PRADYUMN RAJ DAGA	Urbanization & Environment
490	PRAG SINGH	Urbanization & Environment
491	PRAMIT KUMAR MAITY	Plastic pollution in Kolkata
492	PRASANJEET BAL	Plastic pollution in Kolkata
493	PRATHAM DANWAR	Urbanization & Environment
494	PRATHAM JAISWARA	Urbanization & Environment
495	PRATHAM SINGH	Urbanization & Environment
496	PRATIK JAIN	Urbanization & Environment
497	PRATIK KUMAR	Urbanization & Environment
498	PRATIK RAKHECHA JAIN	Urbanization & Environment
499	PRATIK SHAW	Effects of Cyclone on Human Health
500	PREM BANSAL	Urbanization & Environment
501	PREM KUMAR DAS	Plastic pollution in Kolkata
502	PREM SAGAR	Plastic pollution in Kolkata
503	PREM SHAW	Urbanization & Environment
504	PRINCE SHARMA	Urbanization & Environment
505	PRITAM DAS	Effects of Cyclone on Human Health
506	PRITAM SAHA	Effects of Cyclone on Human Health
507	PRIYANGSHU GHOSH	Effects of Cyclone on Human Health
508	PRIYANSHU LALA	Urbanization & Environment
509	PRIYANSHU SARAWGI	Urbanization & Environment
510	PRIYANSHU SHAW	Urbanization & Environment

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511	PUSHPENDU MONDAL	Urbanization & Environment
512	RACHIT GUPTA	Effect of cyclone on Human Health
513	RADHESH DADHICH	Urbanization & Environment
514	RAGHAV SHARMA	Urbanization & Environment
515	RAHUL BANERJEE	Effects of Cyclone on Human Health
516	RAHUL JAIN	Urbanization & Environment
517	RAHUL KUMAR AGARWAL	Urbanization & Environment
518	RAHUL PRASAD	Urbanization & Environment
519	RAHUL SHARMA	Urbanization & Environment
520	RAHUL SONI	Urbanization & Environment
521	RAHUL SONI	Urbanization & Environment
522	RAIHAN MUSHTAQUE	Urbanization & Environment
523	RAJ MALLICK	Effects of Cyclone on Human Health
524	RAJ SAHA	Effects of Cyclone on Human Health
525	RAJ SINGHANIA	Urbanization & Environment
526	RAJDEEP BHOWMICK	Effects of Cyclone on Human Health
527	RAJDEEP PAUL	Urbanization & Environment
528	RAJIV KUMAR SHAW	Urbanization & Environment
529	RAJVEER GANERIWAL	Effects of Cyclone on Human Health
530	RAKESH KUSHWAHA	Effects of Cyclone on Human Health
531	RAKESH PAUL	Urbanization & Environment
532	RAM AVATAR YADAV	Effects of Cyclone on Human Health
533	RANJEET SHAW	Global Forest Cover Changes due to Anthropogenic Activities
534	RATNESH RAJ	Global Forest Cover Changes due to Anthropogenic Activities
535	RAUNAK KESHAN	Global Forest Cover Changes due to Anthropogenic Activities

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536	RAUNAK KUMAR JAISWAL	Global Forest Cover Changes due to Anthropogenic Activities
537	RAUNAK KUNDU	Effects of Cyclone on Human Health
538	REBANTA CHATTERJEE	Effects of Cyclone on Human Health
539	REHAN ALI AHMED	Global Forest Cover Changes due to Anthropogenic Activities
540	RIJUDEV SHARMA	Effects of Cyclone on Human Health
541	RISHAB AGARWAL	Effects of Cyclone on Human Health
542	RISHAB JAISWAL	Global Forest Cover Changes due to Anthropogenic Activities
543	RISHAB SINHA	Global Forest Cover Changes due to Anthropogenic Activities
544	RISHABH BANERJEE	Global Forest Cover Changes due to Anthropogenic Activities
545	RISHAV SINGH	Global Forest Cover Changes due to Anthropogenic Activities
546	RISHI TEKRIWAL	Global Forest Cover Changes due to Anthropogenic Activities
547	RITESH KUMAR UPADHYAY	Effects of Cyclone on Human Health
548	RITESH LUNAWAT	Global Forest Cover Changes due to Anthropogenic Activities
549	RITESH PANDEY	Effects of Cyclone on Human Health
550	RIZWAN HOSSAIN	Effects of Cyclone on Human Health
551	ROHAN PANDEY	Global Forest Cover Changes due to Anthropogenic Activities
552	ROHAN SHARMA	Global Forest Cover Changes due to Anthropogenic Activities

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553	ROHAN SHAW	Global Forest Cover Changes due to Anthropogenic Activities
554	ROHIT KUMAR PANDEY	Global Forest Cover Changes due to Anthropogenic Activities
555	ROHIT SHAW	Effects of Cyclone on Human Health
556	RONIT SHARMA	Global Forest Cover Changes due to Anthropogenic Activities
557	ROSHAN AGARWAL	Global Forest Cover Changes due to Anthropogenic Activities
558	ROSHAN SINGH	Effects of Cyclone on Human Health
559	ROUSHAN PRAKASH	Global Forest Cover Changes due to Anthropogenic Activities
560	RUDRA PRATAP SINGH	Global Forest Cover Changes due to Anthropogenic Activities
561	RUDRAMANI CHOUBEY	Global Forest Cover Changes due to Anthropogenic Activities
562	SACHIN AGARWAL	Global Forest Cover Changes due to Anthropogenic Activities
563	SACHIN GUPTA	Global Forest Cover Changes due to Anthropogenic Activities
564	SACHIN YADAV	Global Forest Cover Changes due to Anthropogenic Activities
565	SAGAR DARUKA	Effects of Cyclone on Human Health
566	SAGNIK DEB	Global Forest Cover Changes due to Anthropogenic Activities
567	SAHIL CHOUDHARY	Effects of Cyclone on Human Health
568	SAHIL DAS	Global Forest Cover Changes due to Anthropogenic Activities

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569	SAHIL JAIN	Global Forest Cover Changes due to Anthropogenic Activities
570	SAHIL JAISWAL	Effects of Cyclone on Human Health
571	SAHIL JAISWAL	Global Forest Cover Changes due to Anthropogenic Activities
572	SAHIL SAHA	Effects of Cyclone on Human Health
573	SAHIL SINGH	Global Forest Cover Changes due to Anthropogenic Activities
574	SAILESH RAM	Global Forest Cover Changes due to Anthropogenic Activities
575	SAKCHAM GUPTA	Global Forest Cover Changes due to Anthropogenic Activities
576	SAMIR BHAGAT	Global Forest Cover Changes due to Anthropogenic Activities
577	SAMRIDH JOSHI	Global Forest Cover Changes due to Anthropogenic Activities
578	SANKALP BHOOT	Global Forest Cover Changes due to Anthropogenic Activities
579	SANKALP SETH	Global Forest Cover Changes due to Anthropogenic Activities
580	SANU PASWAN	Global Forest Cover Changes due to Anthropogenic Activities
581	SATYAM SHARMA	Global Forest Cover Changes due to Anthropogenic Activities
582	SAUTIK CHATTERJEE	Effects of Cyclone on Human Health
583	SAVITENDRA KUMAR	Effects of Cyclone on Human Health
584	SAYAK PAUL	Global Forest Cover Changes due to Anthropogenic Activities

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585	SAYAN SAHA	Global Forest Cover Changes due to Anthropogenic Activities
586	SAYANTAN GHOSH	Effects of Cyclone on Human Health
587	SAYED MD KASIF IMAM	Global Forest Cover Changes due to Anthropogenic Activities
588	SHAHNAWAZ AHMED LODI	Global Forest Cover Changes due to Anthropogenic Activities
589	SHAIL JALAN	Global Forest Cover Changes due to Anthropogenic Activities
590	SHASWAT	Effects of Cyclone on Human Health
591	SHEKHAR MAURYA	Global Forest Cover Changes due to Anthropogenic Activities
592	SHEKHAR SINGH	Global Forest Cover Changes due to Anthropogenic Activities
593	SHISHIR KUMAR	Global Forest Cover Changes due to Anthropogenic Activities
594	SHIVAM CHOUDHARY	Global Forest Cover Changes due to Anthropogenic Activities
595	SHIVAM GUPTA	Effects of Cyclone on Human Health
596	SHIVAM JAISWAL	Global Forest Cover Changes due to Anthropogenic Activities
597	SHIVAM KUMAR SHAW	Effects of Cyclone on Human Health
598	SHIVAM KUMAR TIWARI	Global Forest Cover Changes due to Anthropogenic Activities
599	SHIVAM SINGH	Global Forest Cover Changes due to Anthropogenic Activities
600	SHIVANS KUMAR SINGH	Effects of Cyclone on Human Health



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601	SHIVANSHU MUNDHRA	Global Forest Cover Changes due to Anthropogenic Activities
602	SHIVM SINHA	Global Forest Cover Changes due to Anthropogenic Activities
603	SHOBHIT SHARMA	Global Forest Cover Changes due to Anthropogenic Activities
604	SHREYAN GHOSH	Effects of Cyclone on Human Health
605	SHUBHAM BORAR	Global Forest Cover Changes due to Anthropogenic Activities
606	SHUBHAM KUMAR	Effects of Cyclone on Human Health
607	SHUBHAM KUMAR	Effects of Cyclone on Human Health
608	SHYAM SUNDAR SINGH	Effects of Cyclone on Human Health
609	SIDDHARTH BARETH	Effects of Cyclone on Human Health
610	SIDDHARTHA SUR	Effects of Cyclone on Human Health
611	SMARANIK GHOSH	We Are Losing the savior- The Mangrove
612	SOHAM MAJIE	Effects of Cyclone on Human Health
613	SONU KUMAR	We Are Losing the savior- The Mangrove
614	SONU MAJHI	We Are Losing the savior- The Mangrove
615	SOUGATA HALDER	Effects of Cyclone on Human Health
616	SOUMIK BERA	Effects of Cyclone on Human Health
617	SOUMODEEP DAS	Effects of Cyclone on Human Health
618	SOUMYADEEP SAHA	Effects of Cyclone on Human Health
619	SOURAV PAREEK	We Are Losing the savior- The Mangrove
620	SOURAV SARKAR	We Are Losing the savior- The Mangrove
621	SOURIK GHOSH	Effects of Cyclone on Human Health
622	SOUVIK MAJI	Effects of Cyclone on Human Health
623	SOVON SAHA	We Are Losing the savior- The Mangrove
624	SRIJON KARMAKAR	We Are Losing the savior- The Mangrove
625	SUBHAJIT GHOSH	Effects of Cyclone on Human Health

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626	SUBHAM SHARMA	We Are Losing the savior- The Mangrove
627	SUBHANIL SAHA	Effects of Cyclone on Human Health
628	SUBHASH CHANDRA	Effects of Cyclone on Human Health
629	SUBHRAJIT PAUL	We Are Losing the savior- The Mangrove
630	SUJAL SONKAR	Effects of Cyclone on Human Health
631	SUJAL GUPTA	We Are Losing the Savior-The Mangrove
632	SUJAL KUMAR AGRAWAL	We Are Losing the savior- The Mangrove
633	SUMIT PATHAK	We Are Losing the savior- The Mangrove
634	SURAJ CHAUDHARY	Effects of Cyclone on Human Health
635	SWARNAVO BASAK	We Are Losing the savior- The Mangrove
636	SWASTIK MONDAL	Plastic pollution in Kolkata
637	SWAYAM JHUNJHUNWALA	We Are Losing the savior- The Mangrove
638	TANISHQ ARORA	We Are Losing the savior- The Mangrove
639	TANISHQ JAISWAL	Effects of Cyclone on Human Health
640	TANMOY SAHA	Effects of Cyclone on Human Health
641	TAPAS KR BARIK	We Are Losing the savior- The Mangrove
642	TEJ MANDAN	We Are Losing the savior- The Mangrove
643	TILAK RAJ DAGA	We Are Losing the savior- The Mangrove
644	TUSHAR SINGH	We Are Losing the savior- The Mangrove
645	TUSSHAR AGARWAL	We Are Losing the savior- The Mangrove
646	UJJAWAL AGARWAL	We Are Losing the savior- The Mangrove
647	UJJWAL AGRAHARI	We Are Losing the savior- The Mangrove
648	UJJWAL SINGH	We Are Losing the savior- The Mangrove
649	UMA SHANKAR SONI	We Are Losing the savior- The Mangrove
650	UTSAB MITRA	We Are Losing the savior- The Mangrove
651	UTSAV KUMAR JAIN	We Are Losing the savior- The Mangrove
652	VAIBHAV AGARWAL	We Are Losing the savior- The Mangrove
653	VANSH CHAWLA	We Are Losing the savior- The Mangrove
654	VANSH MOHATA	We Are Losing the savior- The Mangrove

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655	VANSH TANDON	We Are Losing the savior- The Mangrove
656	VENU GOPAL KIRADOO	We Are Losing the savior- The Mangrove
657	VICKY KUMAR SINGH	Effects of Cyclone on Human Health
658	VIKASH CHURIWAL	We Are Losing the savior- The Mangrove
659	VISHAL PANDEY	We Are Losing the savior- The Mangrove
660	VIVEK KESHAN	We Are Losing the savior- The Mangrove
661	VIVEK KUMAR SHAW	We Are Losing the savior- The Mangrove
662	VIVEK MAJI	Effects of Cyclone on Human Health
663	VIVEK MALLICK	Effects of Cyclone on Human Health
664	YASH GUPTA	We Are Losing the savior- The Mangrove
665	YASH SHAW	We Are Losing the savior- The Mangrove
666	YASH SINGHANIA	We Are Losing the savior- The Mangrove
667	YOJIT SHARMA	We Are Losing the savior- The Mangrove
668	YOUSUF KHAN	We Are Losing the savior- The Mangrove
669	YUG KALUNDIA	We Are Losing the savior- The Mangrove
670	YUVRAJ SINGH	Effects of Cyclone on Human Health
671	YUVRAJ SINGH	We Are Losing the savior- The Mangrove

➤ **Sem II students of B.Sc. Honors in Botany:**

Sr. No.	Name of the student	Title of the Project
1	ANUSHKA BHATTACHARJEE	Flora and Fauna of West Bengal
2	KHUSHI PATHAK	Flora and Fauna of West Bengal
3	PAYAL	Flora and Fauna of West Bengal
4	RISHEEKA SAMANTA	Flora and Fauna of West Bengal
5	SAILUADA TANVI	Flora and Fauna of West Bengal

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➤ Sem II students of B.Sc. Honors in Computer Science

Sr. No.	Name of the student	Title of the Project
1	ABHISHEK SHARMA	Plastic Pollution in Kolkata
2	ADITYA SHARMA	Plastic Pollution in Kolkata
3	AISHIK BISWAS	Plastic Pollution in Kolkata
4	AKSHAT RAY	Plastic Pollution in Kolkata
5	AMAN PRASAD ROUTH	Plastic Pollution in Kolkata
6	BIRJU GOPAL BHAGAT	Plastic Pollution in Kolkata
7	HARISHIT PANDEY	Plastic Pollution in Kolkata
8	JASWANT SINGH	Plastic Pollution in Kolkata
9	MD. DILSHAD ALAM	Plastic Pollution in Kolkata
10	RISHAV JHA	Plastic Pollution in Kolkata
11	RITAM CHAKRABORTY	Plastic Pollution in Kolkata
12	SOHAM ROY	Plastic Pollution in Kolkata
13	SOURAV PANDEY	Plastic Pollution in Kolkata

➤ Sem II students of B.Sc. Honors in English

Sr. No.	Name of the student	Title of the Project
1	Aastha Shukla	Human Population is the Root of All Environmental Degradation
2	Ananya Neogi	Human Population is the Root of All Environmental Degradation
3	Anchal Jaiswal	Human Population is the Root of All Environmental Degradation
4	Anjali Singh	Human Population is the Root of All Environmental Degradation

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5	Ankita Banerjee	Human Population is the Root of All Environmental Degradation
6	Anwesha Dutta	Human Population is the Root of All Environmental Degradation
7	Rajita Sadhukhan	Human Population is the Root of All Environmental Degradation
8	Bimala Mahapatra	Human Population is the Root of All Environmental Degradation
9	Disha Ghosal	Human Population is the Root of All Environmental Degradation
10	Eshita Basak	Human Population is the Root of All Environmental Degradation
11	Kajal Tiwary	Human Population is the Root of All Environmental Degradation
12	Kasish Shah	Human Population is the Root of All Environmental Degradation
13	Khushboo Shaw	Human Population is the Root of All Environmental Degradation
14	Naina Narsaria	Human Population is the Root of All Environmental Degradation
15	Nasim Bano	Human Population is the Root of All Environmental Degradation
16	Riddhi Agarwal	Human Population is the Root of All Environmental Degradation
17	Rishika Jaiswal	Human Population is the Root of All Environmental Degradation
18	Roshni Singh	Human Population is the Root of All Environmental Degradation
19	Sakshi Jaiswal	Human Population is the Root of All Environmental Degradation
20	Sanjana Maskara	Human Population is the Root of All Environmental Degradation
21	Shraddha Tiwari	Human Population is the Root of All Environmental Degradation

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22	Shreya Singh	Human Population is the Root of All Environmental Degradation
23	Simran Gupta	Human Population is the Root of All Environmental Degradation
24	Sonali Das	Human Population is the Root of All Environmental Degradation
25	Sonia Kumari	Human Population is the Root of All Environmental Degradation
26	Suhashini Singh	Human Population is the Root of All Environmental Degradation
27	Swastika Choudhury	Human Population is the Root of All Environmental Degradation
28	Sweta Singh	Human Population is the Root of All Environmental Degradation
29	Varsha Thakur	Human Population is the Root of All Environmental Degradation
30	Vidisha Singhi	Human Population is the Root of All Environmental Degradation
31	Vijeta Bharti Singh	Human Population is the Root of All Environmental Degradation
32	Yashika Pandey	Human Population is the Root of All Environmental Degradation
33	Adrita Choudhury	Human Population is the Root of All Environmental Degradation
34	Bhumica Banthia	Human Population is the Root of All Environmental Degradation
35	Shreyashi Misha Singh	Human Population is the Root of All Environmental Degradation
36	Komal Choudhary	Human Population is the Root of All Environmental Degradation
37	Reetika Kumari Kuril	Human Population is the Root of All Environmental Degradation
38	Shreyashi Biswas	Human Population is the Root of All Environmental Degradation

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39	Snehanka Das	Human Population is the Root of All Environmental Degradation
40	Srijita Ray	Human Population is the Root of All Environmental Degradation
41	Tanushree Karmakar	Human Population is the Root of All Environmental Degradation
42	Aditya Karmakar	Human Population is the Root of All Environmental Degradation
43	Ankit Singh	Human Population is the Root of All Environmental Degradation
44	Arpan Bose	Human Population is the Root of All Environmental Degradation
45	Manish Tulsyan	Human Population is the Root of All Environmental Degradation
46	Md Ali	Human Population is the Root of All Environmental Degradation
47	Md Arib Ali	Human Population is the Root of All Environmental Degradation
48	Rupam Chakraborty	Human Population is the Root of All Environmental Degradation
49	Sohan Rodrick	Human Population is the Root of All Environmental Degradation
50	Souvik Karar	Human Population is the Root of All Environmental Degradation
51	Suvam Banerjee	Human Population is the Root of All Environmental Degradation
52	Tabish Mumtaz	Human Population is the Root of All Environmental Degradation
53	Sayandeep Mandal	Human Population is the Root of All Environmental Degradation
54	Abdul Kirash	Human Population is the Root of All Environmental Degradation

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➤ Sem II students of B.Sc. Honors in Food & Nutrition:

Sr. No.	Name of the student	Title of the Project
1	DEBLINA MAHAJAN	Effects of Packaged food on our Health
2	LUCKY RAM	Effects of Packaged food on our Health
3	RAJSHREE KULTHIA	Effects of Packaged food on our Health
4	RIVA GUPTA	Effects of Packaged food on our Health
5	MEDHANSH CHATTERJEE	Effects of Packaged food on our Health
6	R. BISHVAJEETH	Effects of Packaged food on our Health
7	SABUJ DUTTA	Effects of Packaged food on our Health

➤ Sem II students of B.Sc. Honors in Geography:

Sr. No.	Name of the student	Title of the Project
1	ABHISHIKHA ROY	Effects of Chemical Fertilizer in Indian agricultural Field
2	AFSHAN QUAMAR	Effects of Chemical Fertilizer in Indian agricultural Field
3	ARPITA KUNDU	Effects of Chemical Fertilizer in Indian agricultural Field
4	KEYA DEYATI	Effects of Chemical Fertilizer in Indian agricultural Field
5	MANISHA PRASAD	Effects of Chemical Fertilizer in Indian agricultural Field
6	OINDREELA MAJUMDER	Effects of Chemical Fertilizer in Indian agricultural Field
7	SAIMA PARVEEN	Effects of Chemical Fertilizer in Indian agricultural Field
8	SHANIYA NASIB	Effects of Chemical Fertilizer in Indian agricultural Field
9	SONALI MISHRA	Effects of Chemical Fertilizer in Indian agricultural Field
10	AKASH JOYDHAR	Effects of Chemical Fertilizer in Indian agricultural Field
11	SAURAV KUMAR RAY	Effects of Chemical Fertilizer in Indian agricultural Field

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12	SOUMODEEP GHOSH	Effects of Chemical Fertilizer in Indian agricultural Field
13	SUDIPTO SARKAR	Effects of Chemical Fertilizer in Indian agricultural Field

➤ Sem II students of B.A. Honors in Hindi

Sr. No.	Name of the student	Title of the Project
1	ARITRO ROY	Decline of Forest resources in India and it's Probable Impact
2	ANSHIKA JAISWAR	Decline of Forest resources in India and it's Probable Impact
3	ANJALI YADAV	Decline of Forest resources in India and it's Probable Impact
4	GOURAV YADAV	Decline of Forest resources in India and it's Probable Impact
5	JOY KUMAR RAY	Decline of Forest resources in India and it's Probable Impact
6	KUSUM SINGH	Decline of Forest resources in India and it's Probable Impact
7	MUSKAAN ROUTH	Decline of Forest resources in India and it's Probable Impact
8	RENUKA KUMARI	Decline of Forest resources in India and it's Probable Impact
9	SHRUTI HELA	Decline of Forest resources in India and it's Probable Impact
10	SHREYA SHAW	Decline of Forest resources in India and it's Probable Impact
11	KHUSHI JAIN	Decline of Forest resources in India and it's Probable Impact

➤ Sem II students of B.A. Honors in Journalism & Mass Communication

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	SHARDA MISHRA	Cancer Comes via Our Environment
2	NIKITA BAGUI	Cancer Comes via Our Environment
3	AASTHA SINHA	Cancer Comes via Our Environment
4	ROHIT SINGH	Cancer Comes via Our Environment
5	ADITI TIWARI	Cancer Comes via Our Environment
6	ANUSHKA JAISWAL	Cancer Comes via Our Environment

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7	SAMBIT PAUL	Cancer Comes via Our Environment
8	SUJOY PRAMANICK	Cancer Comes via Our Environment
9	SAKSHI SINGHANIA	Cancer Comes via Our Environment
10	IVY BANIK	Cancer Comes via Our Environment
11	SOUMABHO SAHA	Cancer Comes via Our Environment
12	SUVADEEP MUKHERJEE	Cancer Comes via Our Environment
13	KHUSHI SINGH	Cancer Comes via Our Environment
14	RAUNAK KUMAR BANGRWA	Cancer Comes via Our Environment
15	DISHA SHARMA	Cancer Comes via Our Environment
16	ISHANI MUKHERJEE	Cancer Comes via Our Environment
17	SNEHA SETT	Cancer Comes via Our Environment
18	SWASTIK CHAKRABORTY	Cancer Comes via Our Environment
19	SRUTI DEY	Cancer Comes via Our Environment
20	SANJANA SONI	Cancer Comes via Our Environment
21	DEBADITYA MUSTAFI	Cancer Comes via Our Environment
22	FATEMA KHATUN	Cancer Comes via Our Environment
23	ESHAN LAL	Cancer Comes via Our Environment
24	HARPREET KAUR	Cancer Comes via Our Environment
25	DEBLEENA SARKHEL	Cancer Comes via Our Environment
26	ARNAB SAHA	Cancer Comes via Our Environment
27	AYAN SAHA	Cancer Comes via Our Environment
28	SRIJATA DEY	Cancer Comes via Our Environment
29	SK SAHIL	Cancer Comes via Our Environment
30	SWARNASHREE DAS	Cancer Comes via Our Environment
31	SANSKRITI JAISWAL	Cancer Comes via Our Environment
32	SUBHADEEP DAM	Cancer Comes via Our Environment
33	PRAKRITI DUBEY	Cancer Comes via Our Environment
34	PAYEL KUMARI JHA	Cancer Comes via Our Environment
35	JHILAM KHANNA	Cancer Comes via Our Environment
36	TANIYA SHAW	Cancer Comes via Our Environment

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37	ANKUR BISWAS	Cancer Comes via Our Environment
38	HARSH RAO	Cancer Comes via Our Environment

➤ Sem II students of B.Sc. Honors in Microbiology

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	ALKA JHA	Solid Waste Management in Kolkata Municipal corporation
2	ARITRI DAS	Solid Waste Management in Kolkata Municipal corporation
3	ARPITA SINGH	Solid Waste Management in Kolkata Municipal corporation
4	BAISHANI RUDRA	Solid Waste Management in Kolkata Municipal corporation
5	DEBANGI DEB	Solid Waste Management in Kolkata Municipal corporation
6	DOYITA PODDAR	Solid Waste Management in Kolkata Municipal corporation
7	JAYSHA BASU CHOWDHURY	Solid Waste Management in Kolkata Municipal corporation
8	JOYSREE SEN	Solid Waste Management in Kolkata Municipal corporation
9	KHUSHBOO MISHRA	Solid Waste Management in Kolkata Municipal corporation
10	MEGHASREE MANDAL	Solid Waste Management in Kolkata Municipal corporation
11	MONIDIPA ADHIKARI	Solid Waste Management in Kolkata Municipal corporation
12	NEHA SHARMA	Solid Waste Management in Kolkata Municipal corporation
13	PRIYANSHI SHAW	Solid Waste Management in Kolkata Municipal corporation
14	RIDDHI CHAKRABORTY	Solid Waste Management in Kolkata Municipal corporation
15	SAKSHI TIWARI	Solid Waste Management in Kolkata Municipal corporation
16	SANSKRITI SHAW	Solid Waste Management in Kolkata Municipal corporation
17	SHREYA SINHA	Solid Waste Management in Kolkata Municipal corporation

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18	SHREYOSI SARKAR	Solid Waste Management in Kolkata Municipal corporation
19	SHRISTY JAISWAL	Solid Waste Management in Kolkata Municipal corporation
20	SNEHA SHAW	Solid Waste Management in Kolkata Municipal corporation
21	SREYASHI KUNDU	Solid Waste Management in Kolkata Municipal corporation
22	SRIYA RANI LIMA	Solid Waste Management in Kolkata Municipal corporation
23	SWASTIKA BASAK	Solid Waste Management in Kolkata Municipal corporation
24	VASUDHA BHAGAT	Solid Waste Management in Kolkata Municipal corporation
25	SAYANTANI KANGSA BANIK	Solid Waste Management in Kolkata Municipal corporation
26	RANI BHAGAT	Solid Waste Management in Kolkata Municipal corporation
27	ARKADEEP KAR	Solid Waste Management in Kolkata Municipal corporation
28	ARNESH GHOSH	Solid Waste Management in Kolkata Municipal corporation
29	RAZIN ROUF	Solid Waste Management in Kolkata Municipal corporation
30	Samrat Ghosh	Solid Waste Management in Kolkata Municipal corporation
31	SOHAM BANERJEE	Solid Waste Management in Kolkata Municipal corporation
32	SOHAM CHAKRABORTY	Solid Waste Management in Kolkata Municipal corporation
33	NITESH KUMAR MAHATO	Solid Waste Management in Kolkata Municipal corporation

➤ Sem II students of B.Sc. Honors in Zoology

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	ABHIRUPA BHATTACHARYA	Animal Biodiversity in West Bengal
2	ISHA TEWARY	Animal Biodiversity in West Bengal
3	KOMAL JAISWAL	Animal Biodiversity in West Bengal
4	SHRUTI SIKHWAL	Animal Biodiversity in West Bengal

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5	RAJ PREM SINGH	Animal Biodiversity in West Bengal
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➤ Sem II students of B.A. (General)

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	AASHI PRASAD	Changes in the Polar Region and Impact on its Biodiversity
2	ADITYA JAISWAL	Changes in the Polar Region and Impact on its Biodiversity
3	ANUSHKA GUPTA	Changes in the Polar Region and Impact on its Biodiversity
4	BISHEK KUMAR CHOUDHURY	Changes in the Polar Region and Impact on its Biodiversity
5	DEBRAJ GHANTY	Changes in the Polar Region and Impact on its Biodiversity
6	DONA KUNDU	Changes in the Polar Region and Impact on its Biodiversity
7	EKTA SONI	Changes in the Polar Region and Impact on its Biodiversity
8	HIMANI VERMA	Changes in the Polar Region and Impact on its Biodiversity
9	HARSITA SHARMA	Changes in the Polar Region and Impact on its Biodiversity
10	ISHA JAISWAL	Changes in the Polar Region and Impact on its Biodiversity
11	JAGREETI SINGH	Changes in the Polar Region and Impact on its Biodiversity
12	KARTIK KUMAR	Changes in the Polar Region and Impact on its Biodiversity
13	MADIHA AFZAL	Changes in the Polar Region and Impact on its Biodiversity
14	PROSENJIT BANERJEE	Changes in the Polar Region and Impact on its Biodiversity
15	PREETI SHARMA	Changes in the Polar Region and Impact on its Biodiversity
16	PAYEL MAJUMDER	Changes in the Polar Region and Impact on its Biodiversity
17	PRERANA RAY	Changes in the Polar Region and Impact on its Biodiversity
18	RISHI SHAW	Changes in the Polar Region and Impact on its Biodiversity

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19	RIYA SHARMA	Changes in the Polar Region and Impact on its Biodiversity
20	SAKCHI SINGH	Changes in the Polar Region and Impact on its Biodiversity
21	SUKANT SINGH PARMAR	Changes in the Polar Region and Impact on its Biodiversity
22	SADIYA JABBAR	Changes in the Polar Region and Impact on its Biodiversity
23	SANDEEP RAI	Changes in the Polar Region and Impact on its Biodiversity
24	SANUFA NAHAR	Changes in the Polar Region and Impact on its Biodiversity
25	SUKHBIR SINGH	Changes in the Polar Region and Impact on its Biodiversity
26	TANNU SHARMA	Changes in the Polar Region and Impact on its Biodiversity
27	SHREEMA ROY	Changes in the Polar Region and Impact on its Biodiversity
28	PRIYANSHU SARKAR	Changes in the Polar Region and Impact on its Biodiversity
29	MUSKAN KHATUN	Changes in the Polar Region and Impact on its Biodiversity
30	SHIMRAN KUMARI BALMIKI	Changes in the Polar Region and Impact on its Biodiversity

➤ **Sem II students of B.Com (General):**

Sr. No.	Name of the student	Title of the Project
1	ADITI TIWARY	Our Food is our Poison-A Global Scenario.
2	ASHIKA AGARWAL	Our Food is our Poison-A Global Scenario.
3	GARIMA MOHATA	Our Food is our Poison-A Global Scenario.
4	NIKHAT PARVEEN	Our Food is our Poison-A Global Scenario.
5	PARIDHI JALAN	Our Food is our Poison-A Global Scenario.
6	PRAGYA BUKALSARIA	Our Food is our Poison-A Global Scenario.
7	SHALU MISHRA	Our Food is our Poison-A Global Scenario.
8	TRISHA SAHA	Our Food is our Poison-A Global Scenario.

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9	VANSHIKA SHAW	Our Food is our Poison-A Global Scenario.
10	ABHISHEK GUPTA	Polar Animals and their vulnerability.
11	AMAN JAISWAL	Polar Animals and their vulnerability.
12	ANISH JAISWAL	Polar Animals and their vulnerability.
13	ANKIT JAISWAL	Polar Animals and their vulnerability.
14	ARNOB SAHA	Polar Animals and their vulnerability.
15	ASHID MUMTAZ	Polar Animals and their vulnerability.
16	AYUSH KR CHOWDHURY	Polar Animals and their vulnerability.
17	BAIBHAW JAISWAL	Polar Animals and their vulnerability.
18	DEBOPRIYO GHOSH	Polar Animals and their vulnerability.
19	DEV KUMAR GUPTA	Polar Animals and their vulnerability.
20	GOURAV SHAW	Polar Animals and their vulnerability.
21	HARSH PANDEY	Polar Animals and their vulnerability.
22	HARSH YADAV	Polar Animals and their vulnerability.
23	HARSIT DIDWANIA	Polar Animals and their vulnerability.
24	KESHAV GUPTA	Polar Animals and their vulnerability.
25	MD DANISH SHAH	Polar Animals and their vulnerability.
26	RISHAV JAISWAL	Polar Animals and their vulnerability.
27	SAHIL GOUR	Polar Animals and their vulnerability.
28	SAKSHAM JAISWAL	Polar Animals and their vulnerability.
29	SANTANU MONDAL	Polar Animals and their vulnerability.
30	SHIVAM KHANDELWAL	Polar Animals and their vulnerability.
31	SOUMYADEEP BOSE	Polar Animals and their vulnerability.
32	SUNNY KUMAR BISWAL	Polar Animals and their vulnerability.
33	TUSHAR CHOWDHURY	Polar Animals and their vulnerability.
34	UMANG KUMAR	Polar Animals and their vulnerability.

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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT



THK Jain College

Certificate of Completion

This is to certify that a total of 979 students of semester II of the Department of Business Administration, Commerce, Botany, Computer Science, English, Food and Nutrition, Hindi, Journalism & Mass Communication, Microbiology and Zoology have completed their Project in respect of AECC2 in the session 2022-23 (as per list attached).

Subject/Dept	No. of students
BBA (H)	65
B.Com (H)	671
B.Sc. Honors in Botany	5
B.Sc. Honors in Computer Science	13
B.A. Honors in English	54
B.Sc. Honors in Food & Nutrition	7
B.Sc. Honors in Geography	13
B. A. Honors in Hindi	11
B.A. Honors in Journalism & Mass Communication	38
B.Sc. Honors in Microbiology	33
B.Sc. Honors in Zoology	5
B.A. (General)	30
B.Com (General)	34
Total	979

Ananya Kundu Dey

Supervisor

Date: 09/04/2024



Dr. Mausumi Singh

Principal
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BBA (Honors)

- **Sem IV students of course BBAA405SE2 (Summer Internship):**
(This is an elective paper and the list has the name of students who opted for Summer Internship)

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	Akamksha Premkumar	Digital Marketing
2	Samriddha Chakraborty	Unleashing the Power of Woards: Crafting Compelling Content for Impactful Engagement
3	Shifa Khatun	Project Report on Content Writing and Brand Marketing Internship with Stratsmith.co
4	Simran Singh	Enhancing Employ Engagement through Communication strategies
5	Sonam Prasad	Brand Promotion of Viral Fission
6	Aman Agarwala	Digital Marketing of Pharmacy
7	Aman Jain	Digital Marketing Agency of Digital Mitro
8	Anurag Seth	Marketing of WOW's new product recovered carbon black and Pyro Oil
9	Harsh Shaw	Report on Audit
10	Karan Yadav	Project on Digital Marketing
11	Mukul Singh	Enhancing Employ Engagement through Communication strategies
12	Pankaj Jha	Enhancing Employ Engagement through Communication strategies
13	Rahul Kumar Dubey	Project on Digital Marketing
14	Rahul Shaw	Marketing of WOW's new product recovered carbon black and Pyro Oil

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15	Rohit Agarwala	Study on Social Media Marketing and Customer Review
16	Rohit Singh	Ed Tech Platforms and online Learning
17	Shivam Shaw	Study on Human Resource Management
18	Shubham Kumar	Social Media Marketing Plan for Hamari Pahchan NGO
19	Sk Moinul Amin	Sales and Marketing Strategies of Younity Pvt. Ltd
20	Syed Faraz Hussain	Web sales and Marketing of Digital Mitro
21	Vishal Pasi	Project on Digital Marketing
22	Niraj Mishra	Enhancing Employ Engagement through Communication strategies

➤ **Sem VI students of course BBAA603DSE4C (Research project):**
(The students elected to do either field work or project work)

Sr. No.	NAME OF THE STUDENT	TYPE OF ACTIVITY	TITLE OF THE PROJECT
1	Anwesha Saha	Project Work	A study on the effects of products, online buying preferences of college students in Kolkata in reference with amazaon.in
2	Anisha Gupta	Project Work	Comparison of overall financial view between TCS and Wipro for FY 2021-22
3	Aparna Harnandka	Field Work	Innovation in Tourism : Homestays a community based tourism uniting people ECHHEGAON, Kalimpong
4	Deba Priya Roy	Field Work	Homestay- a new avenue of Tourism services a case study in the district of Kalimpong
5	Debosmita Karmakar	Project Work	Employee engagement and development in the new era of work from home
6	Dipti Yadav	Project Work	Consumer brand prospective: A case study of L'OREAL PARIS in India
7	Fiza Firdous	Project Work	Role of woman entrepreneurs in India
8	Isha Choudhury	Project Work	Employee development activities or initiatives undertaken by the telecom companies of India
9	Megha Samaddar	Field Work	Workers engagement in Tea Garden in North Bengal
10	Muskan Gupta	Field Work	Project on Financial Viability in Tourism Industry- a analysis on the Homestays in ECHEGAON

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11	Muskan Kumari	Field Work	Impact on Travel and Tourism now a days and upcoming years
12	Nicky Sahu	Project Work	Impact of Mergers and acquisition on financial performances CANARA Bank and Syndicate Bank
13	Prabha Shaw	Field Work	Financial Model :- an In depth analysis of Homestay industry in ECHEGAON
14	Riya Kumari	Field Work	Financial analysis- Case study of Homestay Industry
15	Rumela Basak	Field Work	A brief analysis on the livelihood of The Tea Garden workers in DOOARS
16	Sanskriti Thakur	Project Work	A brief analysis on Employee Engagement of Nestle India
17	Sneha Ghosh	Project Work	Impact of Motivation in the enhancement of Job performance: A study on the junior managers in MAX Healthcare Ltd
18	Sneha Lahiri	Project Work	Impact of Digitalization in Education: A case study of BYJU's in Kolkata
19	Sweta Sharma	Project Work	Liquidity Analysis: A case on SBI
20	Trisha Paul	Project Work	Project report on Role on Performance appraisal on Employees Loyalty and Moral(TCS)
21	Aadarsh Jaiswal	Project Work	How ITC dominated the FMCG Sector
22	Adarsh Kumar Singh	Project Work	A study on Impacts of Ecommerce on Retail Stores
23	Aman Singh	Project Work	Consumer Behavior and satisfaction on Maggie Noodles- NESTLE India
24	Anish Biswas	Project Work	Analysis on Mutual Fund
25	Ankit Singh	Project Work	Analysis of How brands exploit impulsive buying
26	Ankush Auddy	Field Work	Economic contribution of Homestays of ICCHEGAON towards Tourism Industry
27	Anwar Hussain	Project Work	A Comparative study on Reliance JIO and AIRTEL
28	Ayush Gupta	Field Work	Analysis of Social Media Platform for Digital Marketing Campaigns of ZOMATO
29	Farhan Kauser	Field Work	Marketing and business strategies of AMUL and Creambell
30	Guryash Singh	Field Work	A study on perception of Online grocery shopping among consumers in Kolkata
31	Karan Jaiswal	Project Work	A financial analysis of Power storage Batteries manufacturing MSME's in India
32	Koushal Verma	Field Work	Enriching experience: Exploring the potential of Homestay in sustainable Tourism
33	Kunal Kishor	Field Work	A study on Marketing strategies of PAYTM and Google Pay



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34	Kunal Sonkar	Project Work	A Comparative study on BOAT and JBL
35	Kushal Singhi	Project Work	How ITC become leader of FMCG sector
36	Navneet Jha	Project Work	Marketing strategy on Cadbury
37	Nitin Choudhary	Project Work	Marketing strategy of Pharmaceutical Industry
38	Omkar Goswami	Project Work	Impact of Covid 19 on E commerce industry
39	Puspendra Singh	Project Work	A study on consumer Behavior in different time
40	Rajdeep Chakraborty	Field Work	Financial overview an impact of Homestays in Kalingpong district towards Tourism industry
41	Rishav Singh	Project Work	Marketing strategies of Hero MotoCorp
42	Roushan Kumar	Field Work	Analysing the impact of online reviews on Homestay accommodation business
43	Rupankar Chakraborty	Project Work	Impact of social media on consumer Behavior
44	Sandeep Kumar	Project Work	Project report on DOMINOS
45	Shoaib Fazal	Project Work	Project report on Employment development in unorganized sector in West Bengal
46	Sk Wasim Ahamed	Project Work	Role of product packaging on consumer Behavior
47	Subhadeep Poddar	Field Work	Project report on unleashing the marketing strategies on Hindustan unilever
48	Vishal Ram	Project Work	Impact on green marketing for sustainable development in corporate world
49	Mahammad Sohail Khan	Field Work	Role of homestays in promoting rural tourism and its impact on human capital

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE


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(A self-financed Govt. approved Minority Institution run under the auspices of Shree S.S. Jain Sabha)

6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002
TEL.: 033 25326056 Mob: 9831378911/9831368911

PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT

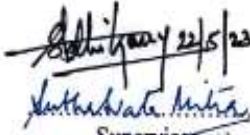
- Sem IV




THK Jain College
Department of Business Administration

Certificate of Completion

This is to certify that **22 (Twenty-two)** students of semester **IV** of the **Department of Business Administration** have completed their **Summer Internship Project** in respect of Paper **BBAA405SE2** in the session 2022-23.



Supervisor 22/5/23



Head, Dept of Business Administration
H.O.D.
Dept. of Business Administration
THK JAIN College
Cossipore, Kol- 02

Date: 22.05.23

- Internship certificates of students



CERTIFICATE OF EXCELLENCE

Proudly presented to :

Akamksha Prem Kumar

For completing an internship as a Digital Marketer Under
Sarp Infotech Solutions Pvt. Ltd. for a duration of 2 months
ending on April 14, 2023

Rahul Jaiswal

Rahul Jaiswal
Mentor

Knack Ardour.

Internship Certificate

THIS CERTIFICATE IS AWARDED TO

Samriddha Chakraborty

a student of BBA (H) at Tara Devi Harakh Chand Kankaria Jain College on completion of her internship
from March 10, 2023, to June 25, 2023

During the Internship, Samriddha has managed different content tasks and taken care of content delivery.
She has contributed the best of her efforts to projects throughout her tenure. We wish her all the best for
the future.

Date: 26.06.2023



.....
Aayush Verma
Managing Head

Stratsmith

STRATSMITH PRIVATE LIMITED

09/03/2023

Dear Shifa Khatun,

This is in reference to your resignation email dated 09/02/2023, you are hereby relieved from your duties, 09/03/2023 being your last working day. We confirm that you have worked with Stratsmith Private Limited, as a Content Writer intern from 12/09/2022 to 09/03/2023

We would like to thank you for your contribution to Stratsmith Private Limited during your tenure and wish you the best for all your future endeavors.

Regards,


Boudhaditya Sanyal
Project Manager - Content Strategy
Stratsmith Private Limited

Certificate:



25-Apr-23

To Whomsoever It May Concern

This is to certify that **Simran Singh**, a student from **THK Jain College**. She has successfully completed Internship Program & Project from **13-Mar-23 to 12-Apr-23** at **TeamLease Services Ltd., Kolkata**.

She has worked in **Financial Services Department** & has successfully completed the project.

Project Name: HR Recruiter

The project summary was presented in detail to the team. During the period of his Internship program, her conduct and performance was good.

We wish **Simran Singh** all the best in future endeavors.

for **TeamLease Services Ltd.**

A handwritten signature in cursive script, appearing to read 'Padmini'.

Padmini Vinay
Assistant Vice President – Human Resources

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TeamLease Services Limited, CIN No: L74140KA2000PLC118395

Registered Office: 315 Work Avenue Campus, #77, Ascent Building, Koramangala Industrial Layout, Jyothi Nivas
College Road, Koramangala, Bangalore - 560095

This is to certify that

Sonam Prasad

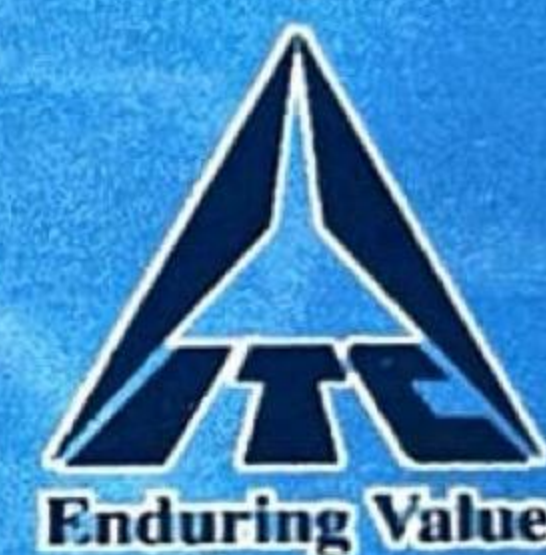
has successfully been a part of the VF Project
for **ENGAGE by ITC Campaign**
period : May 2023


Authorized Signatory



ENGAGE

X



This is to certify that

Sonam Prasad

has successfully been a part of the VF Project
for **Snapchat's Spotlight Campaign**
period : February 2023




Authorized Signatory





To Whom It May Concern

This is to certify that **Mr. Aman Agarwala**, a second year student of **BBA (HONS) in Marketing** at Tara Devi Harakh Chand Kankaria Jain College, Kolkata has been associated as **Affiliate Partner at Pharmeasy**, with term sheet of 12 months starting from **01.11.2022 to 31.10.2023** both days inclusive during which he has shown excellence and has fully utilized the company's budget allocated to him since past five months under the guidance of **Mr. Rushikesh Ibrampurkar, Assistant Manager- Marketing**.

Our company hereby looks forward to work with him in upcoming projects and also refer him for future marketing programs on the basis of his merit and experience with us.

We wish him success for the future.

A handwritten signature in black ink, appearing to read "Rushikesh".

Assistant Manager – Marketing
rushikesh.ibrampurkar@pharmeasy.in
7678001845
Date 05.04.2023

THREPSI SOLUTIONS PRIVATE LIMITED

Telephone - +9102267-080181, E-mail : care@pharmeasy.in Website: www.pharmeasy.in
Regd. Office: 301, B-Wing, Raheja Plaza 1, Opposite R City Mall, Lal Bahadur
Shastri Marg, Ghatkopar West, Mumbai, Maharashtra 400086.



Floor-13, Module-9B, Bengal ECO Intelligent Park Tower, 14, Sector V,
Bidhannagar, Kolkata, West Bengal 700091

Date: 04.05.2023

To Whomsoever It May Concern

This is to certify that Aman Jain, a student from THK Jain College, has successfully completed Internship Program from 08th March to 08th April in the Marketing department our organization.

He has worked in Web Sales & Marketing and has successfully completed the Web developer.

During the above period, he proved to be hardworking and highly productive for us.

During the period of his internship program, his conduct and performance were good.

We wish Aman Jain all the best in his future endeavors.

Best & Regards

Sincerely,

Ritu Mitra
HR Manager

Worth of Waste Pvt. Ltd.

Head Office: "Diamond Heritage" 6th Floor, Room No.619, 16, Strand Road, Kolkata-700 001, Ph No.033-3346043259,
Regd. Office: C5-403," Kamal Apartments-II, Station Road, Bani Park, Jaipur-302016, Rajasthan, Ph.No.0141-2205182

2nd May, 2023

To Whomsoever It May Concern

This is to certify that Anurag Seth, a student from THK Jain College, a student from THK Jain College completed Internship Program & Project from 15-Mar-23 to 15-Apr-23 at Worth of Waste23 at Worth of Wa Pvt. Ltd., Kolkata.

He has worked in Sales & Marketing and has successfully completed the project.

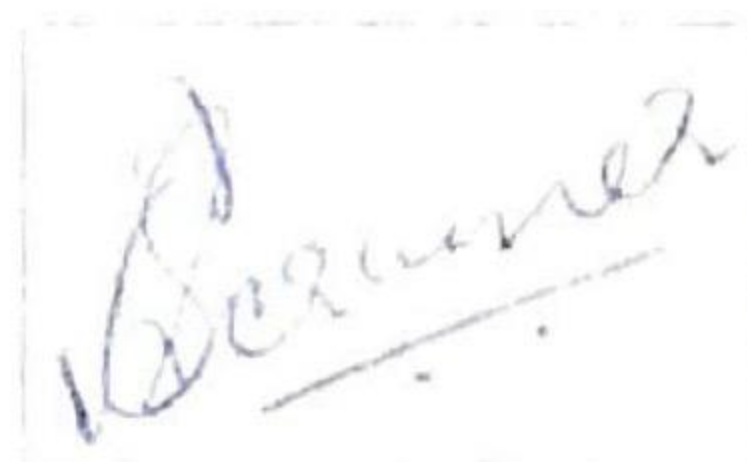
Project Name: Marketing of WoW's new product recovered Carbon Black & Pyro Oil

The project summary was presented in detail to the team. During the period of his internship program, his conduct and performance was good.

We wish Anurag Seth all the best in his future endeavours.

Best regards,

For Worth of Waste Pvt. Ltd.



Carmelita S Cramer Manager Marketing



Pramod S Gupta & Associates
Chartered Accountants

"CENTRAL PLAZA"

41, B. B. Ganguly Street, 5th Floor
Room No. 5E, Kolkata - 700 012
Phone : 033-4006 8794
E-mail : gupta.capramod@gmail

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Harsh Shaw, student of T.H.K Jain College, has successfully completed internship program from 5th April, 2023 to 9th May, 2023 at our Firm Pramod S Gupta & Associates.

He has worked in Audit & Accounts Department and successfully completed the given assignments.

During the training period, He was found to be very sincere and hardworking trainee.

We wish him all the best in his future endeavors.

With Best Regards,

For Pramod S Gupta & Associates

(CA. Pramod Kumar Gupta)

Place: Kolkata

Date: 15th May, 2023



Internship Certificate



2. Certificate



25-Apr-23

To Whomsoever It May Concern

This is to certify that Mukul Singh, a student from THK Jain College. He has successfully completed Internship Program & Project from 13-Mar-23 to 12-Apr-23 at TeamLease Services Ltd., Kolkata.

He has worked in Financial Services Department & has successfully completed the project.

Project Name: HR Recruiter

The project summary was presented in detail to the team. During the period of his Internship program, his conduct and performance was good.

We wish Mukul Singh all the best in future endeavors.

for TeamLease Services Ltd.

Padmini Vinay
Assistant Vice President – Human Resources

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TeamLease Services Limited, CIN No: L74140KA2000PLC118395

Registered Office: 315 Work Avenue Campus, #77, Ascent Building, Koramangala Industrial Layout, Jyothi Nivas
College Road, Koramangala, Bangalore - 560095

Certificate

25-Apr-23

To Whomsoever It May Concern

This is to certify that Pankaj Jha, a student from THK Jain College. He has successfully completed Internship Program & Project from 13-Mar-23 to 12-Apr-23 at TeamLease Services Ltd., Kolkata.

He has worked in Financial Services Department & has successfully completed the project.

Project Name: HR Recruiter

The project summary was presented in detail to the team. During the period of his Internship program, his conduct and performance was good.

We wish Pankaj Jha all the best in future endeavors.

for TeamLease Services Ltd.

Padmini Vinay
Assistant Vice President – Human Resources

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College Road, Koramangala, Bangalore - 560095

INTERNSHIP CERTIFICATE

Page | 9



CERTIFICATE OF EXCELLENCE

Proudly presented to :

Rahul Kumar Dubey

For completing an internship as a Digital Marketer Under
Sarp Infotech Solutions Pvt. Ltd. for a duration of 2 months
ending on April 14, 2023

Rahul Jaiswal

Rahul Jaiswal
Mentor

Worth of Waste Pvt. Ltd.

Head Office: "Diamond Heritage" 6th Floor, Room No.619, 16, Strand Road, Kolkata-700 001, Ph No.033-3346043259,
Regd. Office: C5-403," Kamal Apartments-II, Station Road, Bani Park, Jaipur-302016, Rajasthan, Ph.No.0141-2205182

2nd May, 2023

To Whomsoever It May Concern

This is to certify that Rahul Shaw, a student from THK Jain College, a student from THK Jain College completed Internship Program & Project from 15-Mar-23 to 15-Apr-23 at Worth of Waste23 at Worth of Wa Pvt. Ltd., Kolkata.

He has worked in Sales & Marketing and has successfully completed the project.

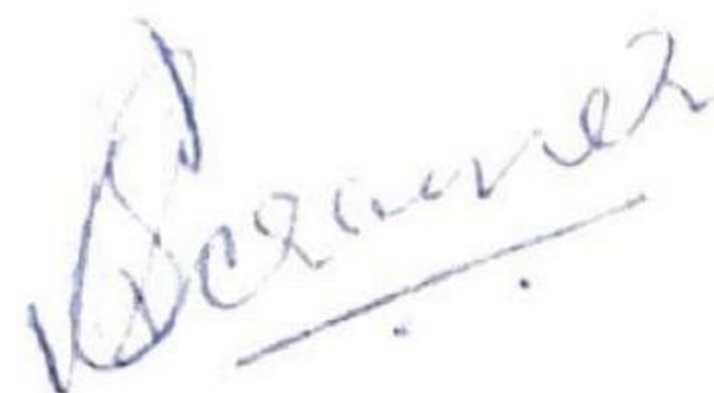
Project Name: Marketing of WoW's new product recovered Carbon Black & Pyro Oil

The project summary was presented in detail to the team. During the period of his internship program, his conduct and performance was good.

We wish Rahul Shaw all the best in his future endeavours.

Best regards,

For Worth of Waste Pvt. Ltd.



Carmelita S Cramer Manager Marketing

INTERNSHIP CERTIFICATE
ToWhomItMayConcern

This is to certify that **Mr. Rohit Agarwala**, a second-year student of **BBA(HONS) in Marketing** at Tara Devi Harakh Chand Kankaria Jain College, Kolkata has been associated as an **Management Trainee in the Social Media Marketing and Sales** with **ANKUXI INDIA**, with term sheet of 2 months starting from **15.02.2023 to 30.04.2023** both days inclusive during which he has shown excellence and has fully utilized the company's budget allocated to him since past two months under the guidance of **Mr. Prithwish Deb, Manager**.

Our company hereby looks forward to work with him in upcoming projects and also refer him for future marketing programs on the basis of his merit and experience with us.

We wish him success for the future.

ANKUXI INDIA

Authorized Signature

Manager – Marketing

info@ankuxi.com

7479039090

Date 01-05-2023

INTERNSHIP CERTIFICATE




Certificate of Excellence

This Certificate is proudly presented to

Rohit Singh

for completing an internship as a **Youth Influencer**
under ULead, an initiative by Unschool, for a duration of 2
months ending on April 13, 2023




Rahul Varma
Chief Executive Officer



Internship Completion Certificate

INTERNSHIP CERTIFICATE
ToWhomItMayConcern

This is to certify that **Mr. Shivam Shaw**, a second-year student of **BBA(HONS) in Marketing** at Tara Devi Harakh Chand Kankaria Jain College, Kolkata has been associated as an **Management Trainee in the Social Media Marketing and HR** with **ANKUXI INDIA**, with term sheet of 2 months starting from **15.02.2023 to 30.04.2023** both days inclusive during which he has shown excellence and has fully utilized the company's budget allocated to him since past two months under the guidance of **Mr. Prithwish Deb, Manager**.

Our company hereby looks forward to work with him in upcoming projects and also refer him for future marketing programs on the basis of his merit and experience with us.

We wish him success for the future.

ANKUXI INDIA

Authorized Signature

Manager – Marketing

info@ankuxi.com

7479039090

Date 01-05-2023



Certificate of Selection

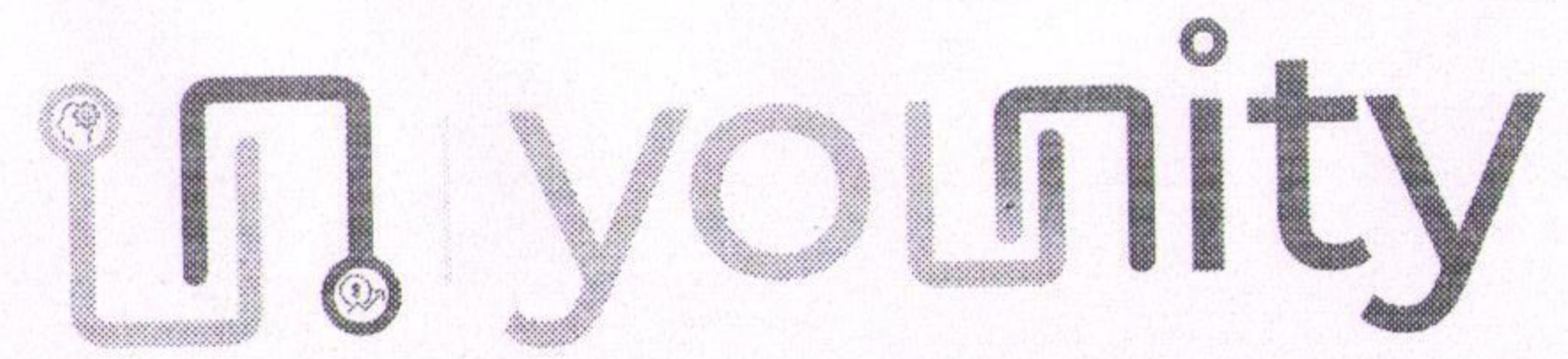
Shubham Kumar

from **THK Jain College** has successfully secured **Social Entrepreneurship**
internship at **Hamari Pahchan NGO** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: May 10, 2023

Certificate Number: 61121c3f11_
For certificate authentication please visit https://internshala.com/verify_certificate



Registered Under

#startupindia

CERTIFICATE OF COMPLETION

This is to Certify that

SK MOINUL AMIN

Has completed the Internship Program at **Younity.in** as the **Sales Executive intern** for the period starting from **1st April, 2023** to **15th May, 2023**. During the period of internship you were found to be punctual, hardworking and inquisitive.

We wish you all the best for your future endeavours!



MR. PRAFFUL GARG
FOUNDER & CEO
YOUNITY.IN



**Floor-13, Module-9B, Bengal ECO Intelligent Park Tower, 14,
Sector V,
Bidhannagar, Kolkata, West Bengal 700091**

Date: 04.05.2023

To Whomsoever It May Concern

This is to certify that Syed Faiaz Hussain, a student from I^{THK} Jain College, has successfully completed Internship Program from 08th March to 08th April in the Marketing department of our organization.

He has worked in Web Sales & Marketing and has successfully completed the Web development.

During the above period, he proved to be hardworking and highly productive for us. During the period of his internship program, his conduct and performance were good.

We wish Syed Faiaz Hussain all the best in his future endeavours.

Best & Regards

Sincerely,

Ritu Mitra

HR Manager

Internship Certificate



CERTIFICATE OF EXCELLENCE

Proudly presented to :

Vishal Pasi

For completing an internship as a Digital Marketer Under
Sarp Infotech Solutions Pvt. Ltd. for a duration of 2 months
ending on April 14, 2023

A handwritten signature in black ink, reading 'Rahul Jaiswal', positioned above a horizontal line.

Rahul Jaiswal
Mentor

Certificate**25-Apr-23****To Whomsoever It May Concern**

This is to certify that **Niraj Mishra**, a student from **THK Jain College**. He has successfully completed Internship Program & Project from **13-Mar-23 to 12-Apr-23** at **TeamLease Services Ltd., Kolkata**.

He has worked in **Financial Services Department** & has successfully completed the project.

Project Name: HR Recruiter

The project summary was presented in detail to the team. During the period of his Internship program, his conduct and performance was good.

We wish **Niraj Mishra** all the best in future endeavors.

for **TeamLease Services Ltd.**

A handwritten signature in blue ink that reads 'Padmini'.

Padmini Vinay
Assistant Vice President – Human Resources

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TeamLease Services Limited, CIN No: L74140KA2000PLC118395

**Registered Office: 315 Work Avenue Campus, #77, Ascent Building, Koramangala Industrial Layout, Jyothi Nivas
College Road, Koramangala, Bangalore - 560095**



**TARA DEVI HARAKH CHAND KANKARIA
JAIN COLLEGE**

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TEL.: 033 25326056 Mob: 9831378911/9831368911


• Sem VI



THK Jain College
Department of Business Administration

Certificate of Completion

This is to certify that **49 (Forty-Nine)** students of semester **VI** of the **Department of Business Administration** have completed their **Research Project** in respect of Paper **BBAA604DSE1/2/3** in the session 2022-23.


22/5/23
Supervisor


22/5/23
Head, Dept of Business Administration
H.O.D.
Dept. of Business Administration
THK JAIN College
Cossipore, Kol-02

Date: 22.05.23



Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



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TEL.: 033 25326056 Mob: 9831378911/9831368911

B. Com (Honors)

➤ Sem VI students of B.Com (Honors)- Project work : CC6.1 Ch

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	SAKCHI MODI	Consumer Perception on Online Banking
2	TANNU SHAW	Advertising Effectiveness of Mobile Phone Industry
3	PRIYA JAISWAL	Growth of E-Commerce- A case study on Amazon
4	AAYUSHI JAIN	A STUDY ON CONSUMER SATISFACTION OF NESTLE PRODUCTS
5	YAMINI RATHI	Consumer behavior on Britannia
6	ANSHIKA GUPTA	Corporate Governance
7	SAMRIDDHI GOENKA	the march of Influencers in changing the shape of marketing
8	YASHIKA MISHRA	Rise of E-Commerce the success story of Paytm and online shopping
9	RASHMI PRASAD	financial statement on Wipro Ltd
10	SNEHA PAUL	Consumer Behavior- A study on flipkart.com
11	RITIKA CHORARIA	THE GROWTH OF electronic INDUSTRY IN INDIA
12	AAYUSHI LUNIA	A STUDY ON CUSTOMER SATISFACTION TOWARDS FLIPKART.
13	KRITIKA BAID	customer service satisfaction on JIO and AIRTEL
14	ISHITA BHOWMICK	A case study on two online food markets- 'Zomato and Swiggy'
15	KHUSHI CHURORIA	brand Repositioning a study on Maggi noodles
16	TAMANNA JAISWAL	marketing and promotional strategies
17	SOUMYA SHAW	Myntra
18	SHREYA SHAW	Impact of GST On service Sector
19	PRASANSHA JAISWAL	Consumer behavior towards SBI'S online banking
20	SANJANA DUBEY	A study on consumer marketing



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21	SWEETY DHAR DUBEY	fin-tech start-ups in India; a comparative study between Phone-Pe & Paytm
22	AYUSHI SANCHETI	Study on credit rating agencies
23	ISHIKA CHOUBEY	Sree Leathers an emerging footwear of India
24	ESHA KAUR	Consumer awareness
25	PALKO AGARWAL	Consumer Behavior on street food of Kolkata
26	NEHA SHAW (PCS)	Topic :- Online Banking - An analysis from various perspectives and comparison between SBI and INDIAN BANK
27	SAKSHI LAKHANI (MKL)	E commerce
28	NISHU SONAR	Project on cybercrime and cyber law
29	SAKSHI AGARWAL	Can India Emerge as a cashless economy an analytical study
30	YOGITA AGARWAL	Project on e-commerce (Meesho)
31	NARGIS ALI	Topic-E- Commerce, Flipkart
32	CHANCHAL GUPTA	Business model and marketing strategies of Netflix
33	KHUSHI SINGH	Customer Relationship Management with special reference to Spencer
34	BALJIT KAUR	Marketing strategy of Cadbury
35	RISHU PANDIT	Rise of E-Commerce in India
36	SNEHA MAJI	A Study on perception of Online Grocery Shopping among Consumers in Kolkata
37	VARSHA TULSHYAN	Consumer Behavior with Reference to Street Food of Kolkata
38	ARTI SHAW	E-Pharmacy before and after Covid
39	SHERNAL ROY	Effectiveness of Advertising
40	ANCHAL SONKAR	A Study on consumer Preference with special reference to classmate notebook
41	MEGHA AGARWAL	A comparative study on corporate social responsibility of Bharti Airtel and Tata Steel
42	SAHINA PARVEEN	Customer Perception on Online Banking
43	AKANCHA GUPTA	Analysis of Pre Merger and Post Merger of VI
44	KANISKA SINGH	DIGITAL PAYMENT



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45	SANA KHATOON	E-COMMERCE IN FLIPKART
46	SAMA PARVEEN	ONLINE BANKING OF SBI
47	ANISHA RAWAT	Corporate Frauds
48	SHRUTI DAGA	ONLINE BANKING
49	RISHITA CHORARIA	CONSUMER AWARENESS ON AMUL PRODUCTS
50	AAKRITI BOTHRA	CONSUMER BEHAVIOR AND SATISFACTION TOWARDS MAGGI NOODLES- NESTLE IN INDIA
51	PRIYANKA SHARMA	A STUDY ON ONLINE CONSUMER BEHAVIOR
52	MAMATA SAHA	Analysis on Mutual Funds
53	ADITI BISWAS	Study of Aviation Sector in India
54	KAJOL SARAF	STARTUP BUSINESS
55	JANVI JAISWAL	NPA- THE COMPARISON BETWEEN SBI & PNB
56	AMISHA DOSAD	IS ATTRACTIVE PACKAGING REALLY A NECESSITY OR EYEWASH? A STUDY ON PACKAGING OF SOME SELECTED COMPANIES
57	RIYA JAISWAL	EFFECTIVENESS OF ADVERTISEMENT ON CONSUMER BUYING BEHAVIOR
58	SONAM PRASAD	A STUDY ON CURRENT SNACK FOOD MARKET: CONSUMER BEHAVIOR TOWARDS SNACK FOODS
59	KANCHAN TEWARI	CUSTOMER SATISFACTION TOWARDS BISLERI PACKAGE DRINKS WATER
60	SAKSHI NAHATA	WORKING CAPITAL MANAGEMENT ON STEEL AUTHORITY OF INDIA LIMITED
61	ANKITA SHAW	ONLINE SHOPPING VS OFFLINE SHOPPING
62	KAHKASHA NAAZ	RATIO ANALYSIS A STUDY OF SHREE CEMENT AND AMBUJA CEMENT
63	SWASTI SAHA	Consumer Behavior
64	RASHI AGARWAL	Growth and consumer preference on online grocery shopping(A case study on Blinkit)
65	PARUL KAWTIA	Online banking (A survey on consumer satisfaction of SBI)
66	SARGAM KAPOOR	Factor affecting the shift of consumer towards E- Pharmacies

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



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TEL : 033 25326056 Mob: 9831378911/9831368911

67	SRISHTI SHARMA	the insurance company in India
68	SHRISTI SINGH	Role of social media on consumer Behavior and our daily life
69	RAVDEEP KAUR	marketing strategy of skincare & haircare (Mamaearth & wow)
70	PREKSHA JAIN	Analysis of Mutual Funds on Axis Bank
71	PALAK OJHA	Consumer behavior upon Cadbury & Amul product
72	SAKSHI AGARWAL	Goods and Service Tax
73	SAKSHI LAKHANI (SL)	A study on- e commerce(Meesho)
74	TANISHA GOUR	online shopping vs offline shopping
75	ANUSHIKA PRASAD	An empirical study of consumer perception towards Digital marketing in Kolkata
76	APARUPA MAJUMDER	Study of Aviation sector in India
77	HARSHITA RATHI	a case study on corporate & financial frauds in India
78	NITISHA GIRI	Study of NPA
79	FARHEENFATMA	A theoretical study of CSR activities in Reliance Industry Limited
80	MAHJABEEN FATMA	Working Capital Management-A study on Infosys
81	NEHA VISHWAKARMA	Branding- a case study on Peter England
82	ARISHAKHAN	Corporate Social Responsibilities (CSR) -Initiatives taken by Tata Steel
83	ISHA SINGH	Working capital management- analysis of HUL
84	MUSKAN SINGH	Marketing strategies of Reebok Shoes
85	NIKITA AGARWAL	Online Reputation Management
86	ANISHA SAHAY	Online Banking in India
87	ROSHNI YADAV	Analysis on Marketing and Promotional Strategies of Dabur India Limited
88	JANVI MEHTA	Consumer Behavior Regarding Clothing Industry
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92	Satakshi Mishra	Working capital Management -An analysis of Hindustan Unilever Limited
93	SONAL RAJ	An overview of Mutual Funds
94	RASHI BHUTORIA	Study on Financial Statement Analysis of Adani Wilmar Limited
95	ISHIKA SONKAR	Consumer Behavior towards Reliance Trends and Reliance Fresh
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105	PRATIMAYADAV	Consumer preference on sugar cosmetics
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110	SANJANA CHHETRI	case study on OTT platforms
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112	JANVI SHARMA	Trend and Scenario of India's Import and Export items & Balance of Trade: A Study through the Secondary Data
113	PAYAL CHATURVEDI	Consumers' Perception with regard to Unified Payments Interface (UPI)



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116	DIVYA SUGLA	Marketing & promotional Strategy of Nyka
117	TASHIKA ROY	Consumer behavior
118	RAJNANDINI GUPTA	Performance of Commercial Banks in India: A Study through the Secondary Data
119	NAVPREET KAUR	Inflation in India: A State Wise Analysis through the Secondary Data
120	KOMAL SHAW	Comparative study between Airtel and Jio
121	MANSHI SHARMA	Financial ratio Analysis: A Comparative Study between HUL & ITC Limited
122	JIYA SHAW	Financial Ratio Analysis: A Comparative Study Between SBI & HDFC Banks
123	KRITI JAISWAL	Trend & Scenario of NPA in Indian Banks: A Study through the Secondary Data
124	KALYANI KUMARI	Working Capital Management(Hero Motocorp Vs Bajaj Auto Comparison)
125	NISA PRASAD	Financial Statement Analysis of Infosys Limited
126	NAYANIKA CHOUDHURY	Assessment of Fiscal Performance of Major Indian States: A Study
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128	NISHA BAID	Cash Management
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132	Arshisha Das	Study of Economic Growth and Customer Preference in Aviation Sector with Special Reference to INDIGO And SPICE JET
133	AVANTIKA BOSE	Financial Ratio Analysis of SBI Bank and HDFC Bank
134	Issika Gupta	Online Marketing Strategies of Myntra
135	RIYA SHAW	Non-Performing Asset in Public Sector Banks



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137	Pragya Shaw	Effectiveness of Advertisement on Consumer Buying Behavior of Urban Clap (Service Sector)
138	Sonam Shaw	A Case Study on Customer's Perception and Satisfaction : Comparative Study on Toothpaste Colgate Palmolive Ltd. and Paatanjali Ayurveda Kendra Pvt. Ltd.
139	SIDDHI AGARWAL	A study of Consumer preference towards Cadbury chocolates in India
140	MAMPI PRASAD	Role of women in corporate sector
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142	SAKSHI SHAW (SKS)	Comparative study between online booking cabs: Ola and Uber
143	VIDHI PERIWAL	Working Capital Management with Respect to Sejal Glass Limited
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145	ANINDITA SARKAR	Risk Management
146	ISHIKA SARDAR	Marketing strategy of Byjus
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148	RAJKUMARI SHAW	CUSTOMER RELATIONSHIP MANAGEMENT : INOX
149	TANUSHREE BINANI	ANALYSING THE PATTERN OF INVESTMENT IN STATE BANK OF INDIA'S MUTUL FUND
150	NIKITA KUMARI SHARMA	NPA MANAGEMENT IN STATE BANK OF INDIA
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154	ESHA CHAKRABORTY	IS ATTRACTIVE PACKING REALLY A NECESSITY OR AN EYEWASH: A STUDY ON PACKING OF MINISO
155	DEVYANI NIGAM	CORPORATE SOCIAL RESPONSIBILITIES ON TCS
156	SNEHALI DEY	BRAND POSTING STRATEGY OF MAGGI

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158	NEHA CHAUDHARY	CONSUMER SATISFACTION TOWARDS E-BANKING SERVICES OF AXIS BANK
159	NEHA SHAW (SS)	CONSUMER BEHAVIOR ON LAKME PRODUCTS
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184	NANDANI SHARMA	Analysis of life insurance policy in India
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187	MANJULA SONI	CORPORATE SOCIALRESPONSIBILITY (COMPARATIVE ANALYSIS BETWEEN TCS AND IBM)
188	SNEHA GUPTA (TNG)	EFFECTIVENESS OF ONLINE ADVERTISING OF ELECTRONIC PRODUCT IN KOLKATA
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207	Sakshi Pandey	Consumer Behavior and Satisfaction of Maggi Noodles- Nestle of India
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209	SHREYASHI MONDAL	E-commerce
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350	ZAFAR ALI SHAIKH	Study of Marketing Strategy of KIA Motor
351	NIHAL UPADHYAY	Working Capital Management on Steel Authority of India Limited
352	Divyanshu Kumar	Consumer Behavior and Satisfaction of Maggi Noodles- Nestle in India
353	KESHAV KHAITAN	A case study on Meesho
354	Ayush Jaiswal	Consumer Perception on Royal Enfield Bikes
355	NIRAJ MISHRA	Impact of GST on Various Construction Project
356	CHIRANJEET JIISWAL	Ratio Analysis-- A Comparative Study of Shree Cement & Ambuja Cement
357	ROHIT SINGH	Digital Marketing-- A Case Study on Infosys
358	ANSHU SHAH	Growth of E-Commerce-- A Comparative Study in Between Flipcart & Amazon
359	VIVEK MUNDHRA	E-Commerce, shoppers stop
360	NAMAN TIGRANIA	A study on capital Markets

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361	ABID RAHAMAN	Marketing & Promotional Strategy of Flipkart
362	SHUBHAM JAISWAL	Consumer Protection & Awareness
363	VAIBHAV TAPARIA	Impact of Automation & AI on the job work environment in the future
364	HARSH HAKIM	Factors affecting Investment in Mutual Funds
365	HARSH PRASAPATI	Analysis of Insurance Sector in India
366	SOURAV JOHARI	Study on Rural & agricultural Banking in India
367	MANAS KUMAR	Credit rating Services in India
368	NAYAN TULSYAN	Carbon Credit & Carbon tax: cases around the globe
369	PREM JAIN	Effectiveness of Advertising on cold drinks
370	YASH JALAN	Study on Aviation on Sector of India-- Indigo Airlines
371	SAYAN BANERJEE	Ratio Analysis
372	ADITYA CHOURASIA	Consumer Awareness-- A Case Study on Shoe Sector
373	SATYAM GUPTA	Awareness & perception of cryptocurrency amongst the people of Kolkata
374	ADITYA PAUL	Cash or Liquidity Management--A Case study on State Bank of India (SBI)
375	PRIYANSHU GUPTA	A Study on Online Banking in India
376	AMAN SONKAR	E-Commerce (a comparative analysis of OLA and UBER)
377	PRAKHAR ANAND	COMMERCIALIZATION OF SPORTS IN INDIA
378	AMAN KUMAR PANDEY	Effectiveness of advertisement in consumer's buying Behavior
379	SHUBHAM KESAN	Online banking to financial statement analysis
380	VINEET RATHI	MUTUAL FUND ANALYSIS
381	KARTIK JAISWAL	Online Banking
382	SHASHWAT GHOSH	Comparative analysis of mutual fund in India

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383	AVINASH KUMAR JHA	Goods & Service Tax (GST)
384	NIKHIL MAROTHI	Online Banking
385	SUJOY DAS	Marketing & Promotional Strategies of Different Textile Industries
386	RISHAV TATER	E- Commerce
387	ANIKET GUPTA	Green marketing
388	RITANKAR DAS	NPA MANAGEMENT
389	MD ZAIN	GST- A NEW HORIZON
390	SOURAV GHOSHAL	DIGITAL MARKETING & ADVERTISING
391	ABHISHEK SHUKLA	GROWTH OF E-COMMERCE.CASE STUDY ON AMAZON.
392	MANAV BAID	Corporate Social Responsibility
393	RAJ KHARGAHA	ONLINE BANKING
394	KHUSHAL GARG	Goods & Service Tax (GST)
395	VISHESH SINGH	E- Commerce
396	YASH DIXIT	Investor's perception towards mutual fund
397	ROHIT SHAW	IMPACT OF CHAT GPT ON THE EDUCATION SYSTEM
398	PRATHAM CHATURVEDI	CORPORATE FRAUDS
399	YASH AGRAWAL	IMPACT OF TOURISM - PRE AND POST COVID-19
400	VARUN KUMAR ROHILLA	ANALYSING THE DIFFERENCE IN CONSUMER PERCEPTION TOWARDS DSLR'S AND SMARTPHONE CAMERA.
401	SHASWATA GHOSH	A study on Kanyashree Prakalpa
402	AMAN SHARMA	Growth and Evaluation of E-sports in India
403	SUVANKAR DEBNATH	Digital financial inclusion: a gener-wise analysis of BRICS countries
404	ISHAAN JAISWAL	A STUDY ON CUSTOMER PERCEPTION TOWARD E- BANKING

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405	ANKIT SINGH	Consumer Behavior and satisfaction of Maggi Noodles-Nestle in India
406	ARKADIP KARMAKAR	Artificial Intelligence in E-commerce
407	CHIRANJIT KAR	Trend in Banking sector of India
408	SOUGATA GHOSH	Health Insurance
409	ABHISHEK LALA	TELECOMMUNICATION IN INDIA
410	RISHAV AGARWAL	AN OVERVIEW OF MUTUAL FUNDS
411	NITESH SHAW	The Rise of E-commerce in India: An analysis of the driving factors
412	SUNIKET RAI	Digital payments in India: A state-wise analysis with the impact of Covid-19
413	AKASH TEWARI	Working capital management of Mahindra & Mahindra Ltd.
414	SHASHANKSHAW	Corporate Social Responsibility
415	AARYANSHARMA	Financial Statement Analysis of Toyota Motor Corporation & Mitsubishi Motors
416	RITTIK PUGLIA	MARKT STRUCTURE AND DEMAND ANALYSIS OF HINDUSTAN UNILEVER
417	AYUSH GUPTA	EFFECTS OF INFLATION ON NATIONAL SAVINGS IN INDIA
418	VIKASH BHUWANIA	E-COMMERCE: A CASE STUDY ON CONSUMER PREFERENCES - FLIPKART VS. AMAZON
419	SABYASACHI BOSE	A study on online Banking in India
420	SUDWAIPAYAN GHOSH	Consumers Behavior analysis of online shopping an offline shopping
421	JAIKISHAN SONI	IMPACT OF GOODS AND SERVICE TAX (GST) ON AUTOMOBILE INDUSTRY
422	SANKALPKASERA	E- Commerce Business on Myntra
423	RITHIK AGARWAL	CONSUMER BEHAVIOR ON VIDEO STREAMING APPS
424	SIDDHARTH SINGH	Marketing Strategy of Amul Product
425	AMAN KANUNGO	STARTUP IN KOLKATA- AGROWTH PHASE
426	ROHIT AGARWAL	IMPACT OF CHAT GPT IN EDUCATION SYSTEM
427	BISRAMBHA MONDAL	THE WEB3 REVOLUTION. INDIA AT CROSSROADS.

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428	TAMONASH CHATTERJEE	AN IMPORTANT ASPECT OF MARKETING
429	AYUSH AGARWAL	working Capital- A study with special reference to manufacturing companies
430	VINAYKH AWAS	working Capital- A study with special reference to manufacturing companies
431	Rishav Ghosh	effectiveness of advertisement(Amul)
432	AKSHAT KESHRI	THE RISE OF EDTECH INDUSTRY- COVID 19 EFFECT
433	MAYANK KESARWANI	Importance of Advertising in the Cold Drink Industry
434	Aryan Shaw	White collar fraud in reference of Stayam scandal
435	Rohan Shaw	packing and its importance (Horlicks)
436	KUNAL BAGRI	A COMPARATIVE STUDY ON ONLINE BOOKING CAB: OLA & UBER
437	Abhishek Das	Analysis of ITC products classmate
438	TUSHAL SHAW	EQUITY ANALYSIS OF BANKING SECTOR
439	Harsh Changoiwal	Role of MSME in Indian economic development
440	ADITYA JAJODIA	Commercialization of Sports Leagues & Its Impacts
441	Musidur Rahaman	comparative analysis of NPA
442	SUBHAM JAISWAL	CASH MANAGEMENT
443	SAHIL KHEMKA	Brand repositioning
444	MOHIT SINGH	Comparative analysis between JIO and Airtel
445	AMAN KUMAR SHAW	Case study on Merger Acquisition of PVR INOX
446	GOURAV SONI	Comparative study of banking system in India with reference to SBI and HDFC bank
447	SOUMARGHYA BOSE	Goods and Service Tax(GST)
448	Subhradip Kar	E-COMMERCE in Flipkart & Snap deal
449	ANKIT SEN	Consumer perception on Astrology
450	VIVEK SHAW	A STUDY ON CONSUMER SATISFACTION ABOUT THE SERVICE
451	Kumarjeet Das	FSA of Boat lifestyle ltd

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452	ADARSH DUBEY	Rise of E- Commerce
453	Gourav Sharma	Consumer satisfaction in online vs offline shopping
454	ABHISHEK SAHA	CORPORATE FRAUD /WHITE-COLLAR CRIMES Case study on: 1. ABG SHIPYARD FRAUD CASE 2. NIRAV MODI FRAUD CASES
455	ARKAPRAVO KRISHNA ROY	Cybercrime and cyber law
456	BHAVYA JAIN	Growth of E-Commerce in India
457	SUBHADEEP ROY	A Study On Online Banking In India
458	AMIR SOHEL	“COMPARATIVE ANALYSIS OF NON-PERFORMING ASSETS BETWEEN SBI AND PNB”
459	MAHAVIR SHAW	marketing and promotional strategies of NYKAA
460	FRANCIS MAJUMDER	STUDY OF AVIATION SECTOR IN INDIA
461	SOURAV RAJ	E-Commerce – A STUDY ON THE IMPACT OF ONLINE RETAILING ON THE SECTOR A CASE ON FLIPKART
462	ROUNAK NANDY	Economic Development in West Bengal Post Independence
463	SATYAM SHARMA	impact of COVID 19 on Travel and Tourism
464	AJOY TOSNIWAL	commercialization of sports in India
465	HIMANSHU GUPTA	effectiveness of advertisement on consumer buying behavior
466	SHUBHAM JAISWAL	emergence and future of OTT platforms in India
467	SHASHANK JAISWAL	can India emerge as a cashless economy an analytical study
468	TOFIQUE SOLANKI	Flipkart digital marketing strategy and advertising campaigns
469	YASH PANIA	effectiveness of advertisement on consumer buying behavior
470	MD SAJID ALAM	Impact of online banking on customer satisfaction
471	SIDDHARTH KUMAR AGRAHARI	Future scope of OTT platforms and consumers preference towards it
472	ROSHAN CHAUDHARY	Analyzing the pattern of investment in mutual funds by people



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473	PRAKASH KUMAR SHAW	Working capital management- a study of CEAT company ltd
474	ANKIT AGARWAL	Marketing and promotional strategies of Horlicks and analysis through primary data
475	BHANU SINGH	A comparative study of selective mutual fund in India
476	ASHISH MISHRA	A study of factors affecting consumers' willingness to buy counterfeit product
477	YASH SONI	Effective marketing strategies of airline and Air India operating in India
478	GAUTAM GUPTA	A STUDY OF FINANCIAL PERFORMANCE OF TCS LTD
479	MD WAQAR YOUNUS	Topic: online shopping of Amazon
480	SHUBHAM KUMAR	Growth and Development of Hospital Industry in India: A Case Study on Apollo Hospitals
481	ANIK DUTTA	Topic - Merger & Acquisition. Company- Vodafone Idea (Vi)
482	ROHAN KUMAR RAI	Study of GST on construction Industry
483	SUKALYAN GHOSH	Topic - Effectiveness of Chocolate Advertisement Towards its Sales-Company Name - Amul Ltd.
484	ABHISHEK KUMAR SHAW	Topic: A Study on Impact of COVID-19 Pandemic on Education Sector of India
485	YASH AGARWAL	Topic - A STUDY ON GREEN ECONOMY BOOST IN THE POST PANDEMIC WORLD
486	ARIJIT MAITY	Project on Working capital Management (CEAT Company)
487	MANAV GOENKA	Topic - Financial Statement Analysis of Tata Motors
488	ARJUN GOEL	Topic - An Empirical Study on the Perception of Investors towards Derivatives in Kolkata
489	SHIVAM GOND	Marketing strategy of e-pharmacies in India.
490	MOHD SADIQ ABBAS	online banking [A study on IDBI bank)
491	BISHAL YADAV	Topic: A Study On Marketing Strategy Of Kia Motors
492	YOGESH SONI	Topic- Effective Marketing Strategies of Airline and Air India operating in India.
493	AYUSH JAISWAL	E-commerce Company name- Zomato
494	AADARSH SINGH	Telecommunication Industry in India
495	ANAND KUMAR	online marketing strategy of MYNTRA



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496	UMANG MAHANSARIA	A comparative study on Customer Relationship Management of Rapido Bike and Uber Moto
497	AKASH PRASAD	A comparative study of selected Mutual Funds in India
498	AKSHAY PANDEY	Rural Banking in India
499	ANKIT TIWARI	Ratio Analysis Study of Shree Cement and Ambuja Cement
500	AMAN SINGH	Study on Consumer Behavior Towards Digitalization of Payments in India
501	SOURAV SONI	Religion and Tourism in India: a relationship
502	ANISH PATEL	Study of Effectiveness of Tata Motors Advertisement
503	RAMJI PRASAD	Customer Perception on Sugar Cosmetics
504	AKASH KAR	working capital management - a case study of MRF company Ltd.
505	AVISEK TIBREWALA	Service and Quality Study of Domino's Pizza
506	AKASH RAHA	Electric Vehicle's Market and its Future Prospects
507	VAIBHAV CHURORIA	Consumer Awareness on Necessity Goods
508	ANSHUL SHARMA	Consumer Behavior and Satisfaction on Maggi instant Noodles Nestle in India
509	RATUL SAHA	Consumer's Perspective on Branding and Packaging
510	AYUSH KABRA	Financial statement analysis of Reliance Jio Infocom limited
511	OM PODDAR	Growth and Consumer response on online Grocery Shopping
512	HARSH SHARMA	A study report on Marketing and Promotional strategies of One plus
513	NITISH KUMAR DAS	Goods and Service Tax
514	JAYESH AGARWAL	Online Marketing Strategies of Myntra
515	KUNAL JAISWAL	Study of Automobile Industry
516	AMAN SAHANI	A comparative study of selected Mutual funds in India
517	MD SHAQUIB KHAN	Study of NPA management in Banks

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518	ANKIT JAISWAL	E- Commerce (Amazon)
519	DINESH AGARWAL	Marketing strategy of E-Pharmacies in India
520	DHRROOV LOHIA	Effectiveness of advertising (Cadbury)
521	RITIK VERMA	Business model and marketing strategies of NETFLIX
522	FAISAL AHMED	working capital Management (An analysis of Hindustan Uniliver limited)
523	ROSHAN KUMAR KANTI	Digital payment
524	RISHI SHAW	Importance of Advertising in the Cold Drink Industry
525	MANISH SURANA	ELECTRIC VEHICLES
526	YASH Kumar BHAGAT	Impact of GST on Public
527	CHANDAN SAHU	EFFECTIVENESS OF ADVERTISEMENT ON CONSUMER BUYING BEHAVIOR
528	ADRISH DAS	ONLINE SHOPPING VS OFFLINE SHOPPING
529	ABHISHEK SHAW	FINANCIAL STATEMENT OF RELIANCE INDUSTRIES LTD & TATA MOTORS - ACOMPARATIVE ANALYSIS
530	V IVEK MAHMIA	STUDY ON HOW TO INVEST IN FINANCIAL MARKET
531	MD AFFAN ABEDIN	FINANCIAL PERFORMANCE ANALYSIS ON ADANI ENTERPRISE
532	NIRAJ RATHI	MARKETING STRATEGY OF E_ PHARMACIES IN INDIA
533	PRATHAM BAGLA	BRAND REPOSITIONS STRATEGY OF TITAN WATCHES
534	AKASH CHAUDHURY	BEHAVIORAL FINANCE AND PORTFOLIO INVESTMENT DECISIONS : A STUDY IN KOLKATA
535	PRAVEEN KEJRIWAL	E- COMMERCE
536	NAMAN SINGHANIA	A STUDY ON THE EFFECT OF TERRORISM ON TOURISM INDUSTRY
537	SURAJ PRATAP TEWARI	CUSTOMER SATISFACTION IN ONLINE BANKING OF ICICI BANK
538	CHIRAG GUPTA	PERCEPTION AND ANALYSIS OF LIFE INSURANCE POLICIES IN KOLKATA
539	ROHIT KUMAR SHAW	MARKETING STRATEGIES OF FMCG COMPANIES- HUL VS ITC

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540	AVIJIT GOMES	APOLLO TYRES WORKING CAPITAL MANAGEMENT A CASE STUDY OF APOLLO TYRES LTD
541	SUBHADIP DEY	CUSTOMER SATISFACTION TOWARDS MARUTI SUZUKI
542	CHIRAG SHAW	IMPACT OF FRAMING EFFECT AND STUDY OF EFFECTIVENESS OF VARIOUS KINDS OF FRAMING EFFECTS
543	RAGHAV MOHATA	MARKETING AND STRATEGIC PLANNING AMUL
544	VINAY DALMIYA	OPTIONS TRADING IN INDIA
545	SOURAV SEWAK	ONLINE BANKING
546	SAURAV AGARWAL	E- BANKING CASE OF STATE BANK OF INDIA
547	RITIK SHUBHAM CHOUDHARY	EFFECT OF COVID 19 ON STOCK MARKET
548	RIZWAN HUSSAIN ANSARI	WORKING CAPITAL MANAGEMENT AN ANALYSIS OF HINDUSTAN UNILEVER LIMITED
549	NIRAJ KUMAR	ONLINE SHOPPING - FLIPKART
550	ASHMIT ABHAY	E- COMMERCE CASE STUDY ON UBER INCORPORATION
551	KESHAV KUMAR	MARKETING & PROMOTIONAL STRATEGY OF RAYMOND & RELIANCE TRENDS
552	MD SHAHZAD ALAM	Case Study on Standard of Living of “Rickshaw puller”
553	EKANSH JAIN	ONLINE SHOPPING - AMAZON
554	SANDIP KUMAR SHAW	ROLE OF MICRO SMALL AND MEDIUM ENTERPRISES IN INDIAN ECONOMY
555	KUNAL GUPTA	CONSUMER BEHAVIOR TOWARDS SBI'S ONLINE BANKING
556	SUMIT PAUL	CONSUMER PREFERENCES & IMPACT OF ADVERTISEMENT OF AMUL & NESTLE
557	YESH KUMAR SETHIA	“Pre and Post – GST Scenario in India”
558	ROHIT KUMAR GUPTA	“STOCK MARKET IN INDIA”
559	RAHUL YADAV	A COMPARATIVE STUDY OF CUSTOMER SATISFACTION AMONG MYNTRA MEESHO AND URBANIC

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560	JASH BANG	Corporate Frauds
561	ARKA DAS	Aviation Sector in India
562	SURYA RAJBANSHI	Effectiveness of Advertisement: MAMAEARTH and WOW
563	ADITYA KORI	CAPITAL MARKET
564	DEEP SHANKAR DAS	A Case Study on e-pharmacy : TATA 1MG and PHARMEASY
565	SHRIKANT ROY	“A STUDY ON CUSTOMER SATISFACTION ON AFTERSALES SERVICE OF SAMSUNG COMPANY”
566	SNEHASISH BISWAS	AFTERSALES SERVICE OF SAMSUNG COMPANY”
567	SAHIL SAHA	CONSUMER AWARENESS ON GREEN MARKETING
568	MANISH KUMAR SHAW	The Subprime Prime
569	WILLIAM SOM TSHERING LEPCHA	Analysis of Consumer Behavior towards CADBURY and AMUL CHOCOLATES
570	SIDDARTH BHAGAT	CONSUMER BEHAVIOR ON ONLINE VS OFFLINE SHOPPING
571	HRITHWIK MONDAL	“Non-Performing Asset Management”
572	SAHIL LAL	Human resource accounting in Indian companies
573	HASNAIN ZIA	Working capital management
574	IFTIKHAR ALTAMASH	After sales services of Samsung company
575	IZAZ AHMED	Consumer perception about online banking
576	SAURAV KUMAR	Comparative Study on CADBURY AND NESTLE
577	ANKIT KUMAR	Industrial Marketing Vs Consumer Marketing
578	HARSH KHETTRY	Corporate Social responsibilities of an Indian company
579	PRAKASH KUMAR	GST and Its Impact on Various Sector
580	ADITYA KUMAR YADAV	Financial Inclusion- Jan Dhan Yojna
581	RAJ GUPTA	Digital Payment on Phone Pe-Empowering the Cashless Revaluation

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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT


THK Jain College
Department Of Commerce

Certificate of Completion

This is to certify that 581 Students of semester-VI of the Department of Commerce have completed their Project work in respect of CC6.1CH in the session 2022-2023.

Akhil Mahapatra
Project Coordinator

A Mondal 28.06.2023
In-Charge (Commerce)
Dr. Asit Kumar Mondal
Dept. Of Commerce Ph. 2.
T. H. K. JAIN COLLEGE
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Botany Honors

- Sem III/IV students of B.Sc. (Honors) in Botany (BOT-A-CC3-7-P, BOT-A-CC4-8-P and BOT-A-CC-4-9-P)

(Note: The same students submitted all the projects/field reports in semester III and IV)

Sr. No.	NAME OF THE STUDENT	COURSE NAME AND CODE	TITLE OF PROJECT / FIELD REPORT
1	Adarsh Gupta	Plant Systematics (BOT-A-CC-3-7-P)	3 Field reports on excursions to Mankudu, Bhirkhanda, & Indian Botanic Garden (Sem III)
		Plant Geography, Ecology and Evolution (BOT-A-CC4-8-P)	Project report on study of vegetation of Sunderban (Sem IV)
		Economic Botany (BOT-A-CC-4-9-P)	Field Report on excursion about cultivation of a crop (Sem IV)
2	Guriya Kumari	Plant Systematics (BOT-A-CC-3-7-P)	3 Field reports on excursions to Mankudu, Bhirkhanda, & Indian Botanic Garden (Sem III)
		Plant Geography, Ecology and Evolution (BOT-A-CC4-8-P)	Project report on study of different unique flora of Sunderban (Sem IV)
		Economic Botany (BOT-A-CC-4-9-P)	Field Report on excursion about cultivation of a crop (Sem IV)

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**TARA DEVI HARAKH CHAND KANKARIA
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Affiliated to University of Calcutta & Accredited by NAAC (2016)
[Recognized under section 2(f) of UGC Act 1956]

(A self-financed Govt. approved Minority Institution run under the auspices of Shree S.S. Jain Sabha)

6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002

TEL.: 033 25326056 Mob: 9831378911/9831368911

PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT



THK Jain College

Department of Botany

Certificate of Completion

This is to certify that 2 students of semester 3 & 4 of the
Department of Botany have completed their Project in respect of
Paper C.C.8: Plant Geography, Ecology & Evolution (BOTA-CC-8-F)
Field work (2 excursions) in respect of
Paper C.C.7: Plant Systematics (BOTA-CC-3-7-F)
Paper C.C.9: Economic Botany (BOTA-CC-4-9-F)
in the session 2022-23

Soumitra Bose

Supervisor

Date: 22/05/2023

Rimidatta

Head, Dept of Botany

H.O.D.
Department of Botany
T.H.K. Jain College
Cossipore, Kol-02

Dr. Mausumi Singh

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



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6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002
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Computer Science Honors

➤ Sem V students of B.Sc. (Honors) in Computer science- CMS-A-CC-6-14-P

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	MEHULI SEN	Face Recognition Attendance System
2	SWASTIKA BASAK	Gesture Controlled Robotic Car
3	SWARNALI CHAKRABORTY	Gesture Controlled Robotic Car
4	PUJA SHAW	E-Commerce Website For 2 nd Hand Books
5	SONAL PRAJAPATI	Pass Narrator
6	TRISITA DEY	Hostel Management System
7	PRIYANKA DHAR	An app connecting pets with their owners for optimal care.
8	KOMAL AGARWAL	Online Voting System
9	SRIJONA BHATTACHARYYA	Hostel Management System
10	ATRI GHOSH	An app connecting pets with their owners for optimal care.
11	TANNU GUPTA	E-Commerce Website For 2 nd Hand Books
12	RAJATABHA DAS	An app connecting pets with their owners for optimal care.
13	ANIKET JHA	Face Recognition Attendance System
14	MANAS RANJAN GUPTA	Online Voting System
15	RAHUL ROY	Surveillance Robot Project Using ESP 32 Cam
16	ADITYA CHOWDHURY	Pass Narrator
17	BISWAJIT KUMAR HASDA	E-Commerce Website For 2 nd Hand Books

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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18	AKASH SHARMA	Surveillance Robot Project Using ESP 32 Cam
19	AADHARSH KUMAR SINGH	Gesture Controlled Robotic Car
20	BIBHA AGARWALA	Hostel Management System
21	RICHA PODDER	Online Voting System


PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT



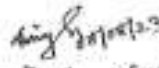
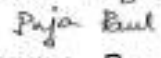
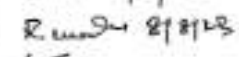

TARA DEVI HARAKH CHAND KANKARIA
JAIN COLLEGE
Department of Computer Science

Certificate of Completion

This is to certify that 21 students of semester VI of the Department of Computer Science have completed their Project in respect of CS-14-P in the session 2022-2023


8/8/2023
Head, Dept of Computer Science

Supervisors Name:

1. DEBASHIS SINGHA 
2. PUJA PAUL 
3. RITUPARNA KUNDU 
4. SUVADIP DAS 

Date: 08.08.2023



TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

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6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA – 700 002
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Food and Nutrition Honors

➤ **Sem III students of B.Sc. (Honors) in Food & Nutrition CMS-A-CC-6-14-P**

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECTS
1	JYOTI KUMARI	Anthropometric Measurement of infant- Length, Weight, Circumference of chest, mid-upper arm circumference, precautions to be taken AND Clinical assessment and signs of nutrient deficiencies specially PEMI, vitamin A deficiencies, Anaemia, Rickets, B- Complex deficiencies
2	KHUSHI MANEK	
3	MONA ACHARJEE	
4	PROTTOYA GANGULY	
5	RISHA CHAKRABORTY	
6	RUPSA MODAK	
7	SANA HAROON	
8	SHRADDHA SINGH	
9	SHREYA SEAL	
10	SNIGDHA PAUL	
11	SRIPARNA SAHA	
12	STUTI BASAK	
13	DEBSHAKI DEB	
14	TANU JAISWAL	
15	ANWESHA DUTTA	
16	UPABITI ADGIRI	
17	AHONA BANERJEE	
18	MUNIBA KHAN	
19	SWETA AGARWALA	

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT



THE JAIN COLLEGE
(AFFILIATED TO UNIVERSITY OF CALCUTTA)
6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA - 700002

DEPARTMENT OF FOOD AND NUTRITION

Certificate of Completion

This is to certify that 19 students of Semester-3 of the Department of Food and Nutrition have completed their Field Work in respect of CC-6-COMMUNITY NUTRITION in the session 2022-23.



MS. SULAGNA HATAI
Supervisor

Date: 02/01/2023.



DR. DEBASREE DEB (GHOSH)
Head
Dept of Food and Nutrition
THE JAIN COLLEGE
COSSIPORE, KOLKATA-2



Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



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➤ Sem V/VI students of B.Sc. (Honors) in Food & Nutrition

Note: Same students did both Field visit (DSE A1) in Sem V and Internship (DSE A3 papers) in Sem VI

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECTS
1	DILNASHEEN PARVEEN	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
2	ANANNA PODDER	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
3	PRIYANKA HELA	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
4	MADHURIMA CHATTERJEE	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
5	SHRUTI MAJHI	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
6	RICHA AGARWAL	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
7	SWETA AGARWAL	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
8	SALEHA AMIN	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.)

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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		(Sem V) Hospital Internship Programme (Sem VI)
9	SHAGUFTA NASRIN	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
10	SUSHMITA SAHA	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
11	ANUSHKA BARNWAL	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
12	ANKITA KARMAKAR	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
13	BIDIPTA CHAKRABARTY	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes
14	SAMADRITA GHOSH	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
15	RUHITA LODH CHOWDHURY	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)
16	PRERONA GHOSH	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
17	ALAFIA AZHAR	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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18	ANKITA DAS	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
19	RUPESH KUMAR PATHAK	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Hospital Internship Programme (Sem VI)
20	SWAPNASIS CHATTERJEE	Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.) (Sem V) Visit to old-age homes (Sem VI)

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT


THK JAIN COLLEGE
[AFFILIATED TO UNIVERSITY OF CALCUTTA]
6, RAM GOPAL GHOSH ROAD, COSSIPORE, KOLKATA - 700002
DEPARTMENT OF FOOD AND NUTRITION

Certificate of Completion

This is to certify that 20 students of Semester-5 of the Department of Food and Nutrition have completed their Field Work in respect of DSE-A1-PUBLIC HEALTH and Project Work in respect of DSE-B1-FOOD SAFETY AND QUALITY CONTROL in the session 2022-23.


MS. DEBOSMITA DE
Supervisor


DR. DEBASREE DEB (GHOSH)
Supervisor and Head
Dept of Food and Nutrition
Date: 05/01/2023
Dept. of Food & Nutrition
THK JAIN COLLEGE
Kankaria-2

Internship certificates of 12 students who did Hospital Internship Program


Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss Dilnasheer Pasveer.....

*Enrollment No. Has successfully completed on
job training in the Department of Clinical Dietetics & Community Nutrition at*

KPC Medical College and Hospital, under our guidance and supervision from

15/02/2023..... To 06/03/2023.....

*During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation was Good.....*

I wish the candidate success in all the future endeavors.

Date: 24.05.2023

*DR. RANJINI DATTA
CHIEF DIETITIAN
KPC MEDICAL COLLEGE & HOSPITAL*

Ranjini Datta
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss *Madhurima Chatterjee*
Enrollment No. Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from
.....15/02/2023.... To06/03/2023.....

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation wasGood.....

I wish the candidate success in all the future endeavors.

Date: 24.05.2023

Ranjini Datta
DR. Ranjini Datta
HOD,
Clinical Dietetics & Community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss *Richa Agaswal*

Enrollment No. Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from

15/02/2023 To *06/03/2023*

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/*her* Hospital duties and performance in
evaluation was *Good*

I wish the candidate success in all the future endeavors.

Date: *24.05.2023*

Ranjini Datta
HOD,

Clinical Dietetics & community Nutrition
KPC Medical College & Hospital




**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss ✓ *Sweta Agaswala*
Enrollment No. — Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from
..... *15/02/2023* To *06/03/2023*

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her ✓ Hospital duties and performance in
evaluation was *Good*

I wish the candidate success in all the future endeavors.

Date: 24.05.2023



Rajni Datta
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**


This is to certify that the candidate Mr/Mrs/Miss *Saleha... Amin*

Enrollment No. Has successfully completed on
job training in the Department of Clinical Dietetics & Community Nutrition at
KPC Medical College and Hospital, under our guidance and supervision from
15/02/2023 To *06/03/2023*

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation was *Good*

I wish the candidate success in all the future endeavors.

Date: *24.05.2023*



Ranjit Datta
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss ✓ *Shagufta Nasrin*...

Enrollment No. ✓ Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from

..... *15/02/2023* To *06/03/2023*

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/✓ Her Hospital duties and performance in
evaluation was *good*

I wish the candidate success in all the future endeavors.

Date: *24.05.2023*

DR. *RANJINI DATTA*
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

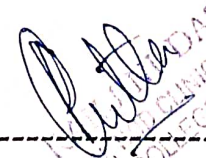
This is to certify that the candidate Mr/Mrs/Miss [✓].....Anushka..Barnwal..

Enrollment No. Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from
.....15/02/2023..... To ...06/03/2023.....

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation wasGood.....

I wish the candidate success in all the future endeavors.

Date: 24.05.2023


Ranjini Datta
HOD,
Clinical Dietetics & Community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss Aukita Karmakar ..

Enrollment No. Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC

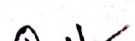
Medical College and Hospital, under our guidance and supervision from

15/02/2023 To 06/03/2023

During this period the candidate has participated in indoor patient's diet planning and Special Diet preparations. His/her Hospital duties and performance in evaluation was Good

I wish the candidate success in all the future endeavors.

Date: 24.05.2023


DR. RANJINI DATTA
HEAD, DEPARTMENT OF CLINICAL DIETETICS
JEC Medical College & Hospital

Ranjini Datta
HOD,

Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss Prerona Ghosh

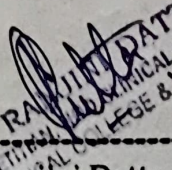
Enrollment No. Has successfully completed the
internship in the Department of Clinical Dietetics & Community Nutrition at KPC
Medical College and Hospital, under our guidance and supervision from

..... 15/02/2023 To 06/03/2023

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/^{her} Hospital duties and performance in
evaluation was Good

I wish the candidate success in all the future endeavors.

Date: 24.05.2023 ,


DR. RAJINI DATTA
CHIEF OF CLINICAL DIETETICS
KPC MEDICAL COLLEGE & HOSPITAL
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate Mr/Mrs/Miss Alia Azhas.....

Enrollment No. Has successfully completed on
job training in the Department of Clinical Dietetics & Community Nutrition at

KPC Medical College and Hospital, under our guidance and supervision from

15/02/2023 To 06/03/2023

During this period the candidate has participated in indoor patient's diet planning and Special Diet preparations. His/her Hospital duties and performance in evaluation was Good

I wish the candidate success in all the future endeavors.

Date: 24.05.2023

Ranjini Datta
HOD,

Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**


This is to certify that the candidate Mr/Mrs/Miss Ankita Das

Enrollment No. Has successfully completed on
job training in the Department of Clinical Dietetics & Community Nutrition at
KPC Medical College and Hospital, under our guidance and supervision from
15/02/2023 To 06/03/2023

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation was Good

I wish the candidate success in all the future endeavors.

Date: 24.05.2023



DR. Ranjini Datta
HOD,
Clinical Dietetics & community Nutrition
KPC Medical College & Hospital



**KPC MEDICAL COLLEGE & HOSPITAL,
JADAVPUR**

This is to certify that the candidate *Mr/Mrs/Miss ..Rupesh..Kumar..Pat. Lak*
Enrollment No.-..... Has successfully completed on
job training in the Department of Clinical Dietetics & Community Nutrition at
KPC Medical College and Hospital, under our guidance and supervision from
..15/02/2023..... To ..06/03/2023.....

During this period the candidate has participated in indoor patient's diet planning
and Special Diet preparations. His/her Hospital duties and performance in
evaluation wasGood.....

I wish the candidate success in all the future endeavors.

Date: 24.05.2023

Ranjini Datta
HOD,

Clinical Dietetics & community Nutrition
KPC Medical College & Hospital

DR. RANJINI DATTA
CHIEF DIETITIAN, HOD CLINICAL DIETETICS
KPC MEDICAL COLLEGE & HOSPITAL



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Geography Honors

➤ Sem V/VI students of B.Sc. (Honors) in Geography

Note: same students did both the projects in GEO-A-CC-5-11P (in Sem V)
and CMS-A-CC-6-14-P in Sem VI

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	SWAITA SHAW	Geomorphic Dynamicity and its impact on Livelihood of Inhabitants: An Analytical Case Study on Ghoramara Island (Sem V)
2	PAYEL BISWAS	
3	ANWESHA SAHA	
4	KAUSHIKI KUNDU	
5	RUCHIRA DAS	
6	ANUSHKA SAHA	
7	ALIVA ADHIKARY	
8	AMEESHA MAHAPATRA	
9	AVINANDITA MUKHERJEE	
10	NAINA HELA	
11	ADRITA BHATTACHARYA	AND Review on Selected Aspect of Road Accident in Kolkata police Area. (Sem VI)
12	SHRADDHA TEWARI	
13	KUMARI DEEPIKA MARNDI	
14	RASMITA MAHARANA	
15	ANIMA SHOME	
16	SUBHANJON GOSWAMI	
17	RAJDEEP MAITY	
18	SATISH SHAW	

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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19	SOUMYAJIT GHOSH	
20	JITU SHAW	
21	PRAVAT KUMAR NAYAK	
22	ANAND KUMAR RAM	
23	SHIBNATH HANSDA	
24	SRIJAN MAHAPATRA	

PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT


T.H.K. JAIN COLLEGE
DEPARTMENT OF GEOGRAPHY

Certificate of Completion

This is to certify that 24 students of semester V and VI of the Department of Geography have completed their Field Work and Project, in respect of CC 11 and CC 14 of B.A./B.C. Honours Course, respectively in the session 2022-2023.

Supervisors Department of Geography
T. H. K. Jain College
Date: 23.08.2023 Cossipore, Kol.

Head, Dept of Geography
T. H. K. Jain College



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Journalism & Mass Communication Honors

- **Sem VI students of B.Sc. (Honors) in Journalism & Mass Communication:**
JORA-DSE-A-6-3

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	PUJA YADAV	CHANGING PATTERN OF NEWS CONSUMPTION: A STUDY ON TIMES OF INDIA NEWSPAPER AND TIMES OF INDIA DIGITAL
2	SUDHA BARUI	DISCOURSE ANALYSIS ON HOW CHILDREN ARE REPRESENTED IN BOLLYWOOD FILMS
3	SATADAL DEY	A STUDY ON CHANGING PATTERN OF RADIO CONSUMPTION
4	ARPITA BHATTACHARYYA	ONLINE CONTENT AND ONLINE ADVERTISING: A COMPARATIVE STUDY ON CADBURY AND OPPO
5	ANAMIKA PODDAR	CROSS CULTURE PRESENTATION: DISCOURSE ANALYSIS ON POKEMON AND CHHOTA BHEEM
6	KHAYATI MISHRA	ADVERTISING THROUGH AESTHETICS: A TEXTUAL ANALYSIS
7	SOUMYA DIXIT	REPRESENTATION OF HINDU NARRATIVE IN CONTEMPORARY BOLLYWOOD FILMS: A CASE STUDY
8	AKANSHA KHEDWAL	STEREOTYPING MALE THROUGH BOLLYWOOD FILMS: A DISCOURSE ANALYSIS
9	DIVYA AGARWAL	STUDY ON ONLINE ADVERTISEMENT AND PROMOTION OF FAST FASHION
10	SAPTAPARNI ROY	REPRESENTATION OF CULTURAL COHERENCE THROUGH CARTOONS: A DISCOURSE ANALYSIS

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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11	SALONI JAIN	FASHION AND CROSS-CULTURAL IDENTITY IN TWO K-DRAMAS: A STUDY ON TRUE BEAUTY
12	HIMIKA BHATTACHARYA	REPRESENTATION OF WOMEN IN MIRA NAIR'S FILMS
13	SHREYA MUKHERJEE	STRUGGLE OF QUEER COMMUNITY AS PROJECTED IN BENGALI FILMS
14	SUDIPTA MAKAL	STUDY ON EFFECTS OF MODERNIZATION ON THE CONTENT OF BHARATNATYAM CLASSICAL DANCE FORM
15	URBOSHREE BANERJEE	STUDY ON THE USE OF CARTOON CHARACTERS FOR BUILDING OF SOCIAL AWARENESS - CASE STUDY OF GPAL BHAR
16	DEBOPRIYA DUTTA	CHANGING TRENDS OF REPRESENTATION OF WOMEN ON OTT CONTENTS – COMPARATIVE STUDY
17	KOUSHAMBI GHOSH	STUDY ON THE PERSUASION TECHNIQUES USED IN ADVERTISEMENTS BY BRANDS TO INFLUENCE CONSUMER BEHAVIOR
18	SUDESHNA DAS	SOCIAL MESSAGES CONVEYED IN FILMS OF WINDOWS PRODUCTION
19	ABHISHEK DAS	DEPICTION OF STRUGGLE OF STUDENT LIFE IN BOLLYWOOD FILMS - 3 IDIOTS VS STUDENT OF THE YEAR
20	AMAN AGARWAL	COMPARATIVE STUDY OF PRINT MEDIA COVERAGE OF CRICKET WITH OTHER SPORT NEWS
21	SHIVAM KUMAR AGARWAL	STUDY ON EMERGENCY OF JAPANESE ANIME AMONG INDIAN YOUTHS AND IT'S CULTURAL IMPACTS
22	ROHAN JAISWAL	FOOD SYMBOLISM IN CHILD FILMS – CASE STUDY ON “STANLEY KA DABBA AND SOHOJ PATHER GOPPO”
23	HARSHIT ROY	RESENT TRENDS OF SPORTS NEWS REPORTING: A COMPARATIVE STUDY OF HINDI NEWSPAPERS



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24	AKASH SINGH	HOW SOCIAL MEDIA HAS CAUSED MENTAL HEALTH ISSUES AMONG YOUTH.
25	MD ASIF IQUEBAL ANSARI	THE DISCOURSE ANALYSIS OF REALITY SHOWS IN CONSTRUCTING REALITY FOR YOUTH: A SPECIAL REFERENCE TO BIG BOSS.
26	SOUMYADEEP PATRA	TELEVISION VS. OTT: WHY THE AUDIENCE CHOOSE ONE OVER THE OTHER? A RECENT COMPARATIVE CASE STUDY.
27	SAHIL SINGH	PORTRAYAL OF SPORTS IN BOLLYWOOD: AN OBSERVATION ON RECENT TRENDS.
28	RISHAVNIL BOSE	THE DISCOURSE ANALYSIS OF POPULAR PRIME-TIME BENGALI TV SERIALS IN POPULAR BENGALI TV CHANNELS.
29	AAYUS SHARMA	THE ROLE OF INDIAN SOCIALLY INFORMATIVE VLOGS PUBLISHED ON YOUTUBE AS A SOURCE OF INFORMATION: A CASE STUDY ON AUDIENCE OPINION BUILDING.
30	AGNICK MUKHERJEE	FEMINISM OR MEN VS. WOMEN AS RECENT TRENDS ON SOCIAL MEDIA.
31	MANISH PRASAD	COMEDY COMMERCIAL IN MASS MEDIA AND THEIR IMPACT ON CONSUMPTION BEHAVIOR AMONG THE AUDIENCE
32	SOUMADIP GHOSH	ROLE OF TRAVEL AND TOURISM ADVERTISEMENTS PUBLISHED IN INDIAN DAILY ENGLISH LANGUAGE NEWSPAPERS: AN AUDIENCE DECISION MAKING ANALYSIS.
33	AYUSH ANAND	THE ROLE OF ONLINE NEWS PORTALS IN REPORTING FINANCIAL SCAMS, FRAUDS AND ITS IMPACT ON USER AWARENESS.

Principal
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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT


THK Jain College
DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

Certificate of Completion

This is to certify that 33 students of Semester -VI of the Department of Journalism & Mass Communication have completed their Research Projects in respect of JORA-DSE-A-6-3 Dissertation with Presentation of B.A (Honours) in Journalism & Mass Communication in the session 2022-2023.

Liddhartha Chatterjee
30.03.23
Asst. Charge
Dept. of Journalism
& Mass Communication
T.H.K. Jain College
(Affiliated to C. U.) Kol-2
Supervisors
Date- 30/3/2023

Jamnik Chatterjee
30/3/23
HEAD
Dept. of Journalism
& Mass Communication
T.H.K. Jain College
(Affiliated to C. U.) Kol-2

Dr. Mausumi Singh

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kol-2
(Affiliated to C.U.)



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Microbiology Honors

➤ Sem VI students of B.Sc. (Honors) in Microbiology: MCB-A-CC-5-12-P

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	Baridhi Pal	A visit to educational institute/industry to see an industrial fermenter, and other downstream processing operations
2	Trisha Kar	
3	Divya Tripathi	
4	Debashri Bose	
5	Sanjana Khattry	
6	Abhipsa Kundu	
7	Sharmilee Mitra	
8	Aliviya Dey	
9	Supriti Sanki	
10	Sushmita Shaw	
11	Sneha Kumari Singh	
12	Joyeeta Kundu	
13	Sweta Ghosh	
14	Sudipa Ghosh	
15	Nandini Jaiswal	
16	Tanni Datta	
17	Aishani Dhali	
18	Ishhika Ghosh	
19	Anoushka Roy	
20	Kajal Mishra	

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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21	Garima Bhattacharjee	A visit to educational institute/industry to see an industrial fermenter, and other downstream processing operations
22	Neha Agarwal	
23	Tanega Sarkar	
24	Swati Agarwal	
25	Rima Mondal	
26	Sattika Kundu	
27	Sanchari Tapadar	
28	Shreya Saha	
29	Ayesha Jahan	
30	Arindam Saha	
31	Harsh Chandra Roy	
32	Subhajit Khan	
33	Sandipan Acharjee	
34	Rajdeep Boral	
35	Subhranil Saha	
36	Sarthak Kundu	
37	Sagnik Pal	
38	Ankit Pathak	
39	Pritam Pal	
40	Aryan Saha	
41	Avinab Paul	

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PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT



THK Jain College
Department of Microbiology

Certificate of Completion

This is to certify that 41 students of semester V of the Department of Microbiology have completed their Project in respect of MCBA-CC12-Practical paper (Core Course name: Industrial Microbiology) in the session 2022-2023.

Anomika Ghatak

Supervisor

Suchismita Das

Head, Dept. of Microbiology

3/1/23

Date: 03/01/2023

Department of Microbiology
T. H. K. Jain College
Cossipore, Kol-4

Department of Microbiology
T. H. K. Jain College
Cossipore, Kol-4

Principal

Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
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Zoology Honors

- **Sem V/VI students of B.Sc. (Honors) in zoology:** ZOOA-CC5-11-P, ZOOA-DSE(A)-6-2-P

[Note: Same students did both the projects in ZOOA-CC5-11-P (Sem V) and ZOOA-DSE (A)-6-2-P (Sem VI)]

Sr. No.	NAME OF THE STUDENT	TITLE OF THE PROJECT
1	Khushi Agarwala	Report on a visit to a National Park (Sem V) AND Animal Cloning and Its Ethical issues (Sem VI)
2	Srijita Modak	
3	Ritika Saha	
4	Rashmi Tiwari	
5	Shilpa Nahar	
6	Debanjali Sen	
7	Lubaba Iram	
8	Sanjana Chauhan	
9	Rima Dey	
10	Moumita Basu	
11	Anyesha Saha	
12	Manvika Kumari	
13	Unnati Pandey	
14	Shristi Prasad	
15	Garima Dey	
16	Puspita Chatterjee	
17	Hamdosh Rafa Khan	
18	Soumyajit Das	

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE


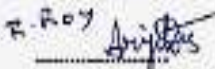
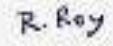
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19	Abhijit Narayan Choudhary	Report on a visit to a National Park (Sem V) AND Animal Cloning and Its Ethical issues (Sem VI)
20	Arka Kumar Akuli	
21	Manish Jaiswara	
22	Meghadri Ray	

PROJECT COMPLETION CERTIFICATE FROM THE DEPARTMENT

	
T.H.K. JAIN COLLEGE DEPARTMENT OF ZOOLOGY	
<u>Certificate of Completion</u>	
This is to certify that 22 students of semester V & VI of the Department of ZOOLOGY, have completed their Project on (i) ZOOA-DSE(A)-6-2-P (Animal Cloning and Its Ethical issues), (ii) ZOOA-DSE(B)-6-1-P (Study of circadian functions in humans), and Field Work on (i) ZOOA-CCS-11-P (Report on a visit to a National Park) (ii) ZOOA-DSE(B)-6-1-P (Visit to a National Park to study behavioral activities of animals), in the session 2022-2023.	
 Supervisor	 Head, Dept of <u>Zoology</u>
Date: 21-3-23	H.O.D. Department of Zoology T. H. K. Jain College Cossipore, Kol-2



Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
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**COURSE OBJECTIVES, TYPE OF ACTIVITY (PROJECT
WORK/FIELD WORK/INTERNSHIPS) AND DURATION OF
ALL COURSES**

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
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	Program Name	Seme ster	Course name and code	Objective of the project	Type of Activit y	Duratio n
1	Offered to Sem II students of all programs	II	Ability Enhance Compulsory Courses AECC-2 Environm ental Studies	The project aims to sensitize students to the importance of the environment, foster appreciation for natural world and develop a sense of responsibility towards conserving and protecting it. Field work also ensure efficient use of environmental resources in the sense of reduction in their use per unit of economic output and to minimize adverse environmental impacts on society.	Project	15 days
2	BBA (Honors)	IV	BBAA405S E2	The objective includes students to get real -world work experience. Internship gives exposure to new tasks and experience with industry professionals	Interns hip	2 months
3		VI	BBAA603 DSE4C	The objective includes taking up a research problem and analysing It with the tools taught in the curriculum and make a case	Field Work/ Project Work	2 months
4	B.Com (Honors)	VI	Project work - CC6.1 Ch	To understand meaning and scope of business research To bring into the light with research terminologies and various types of research design To get an insight into various scaling techniques and sources of data collection To get up to date with various techniques of data analysis and its implications To obtain basic learning of analytics in business.	Project work	4 weeks

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5	B.Sc. Honors in Botany	III	Plant Systematics BOT-A-CC3- 7-P	To familiarize students with natural habitats & morphology of angiosperms and to collect & preserve herbarium specimens for submission	3 (Three) Field visits	4 months
6		IV	Plant Geography, Ecology and Evolution – BOT-A-CC4- 8-P	To study the vegetation and various local flora along with their ecological parameters of different phytogeographical region of India	Project	4 months
7		IV	Economic Botany BOT-A- CC4-9-P	To learn about the cultivation, harvesting and post-harvest processing of any economically important crop species.	Field visit	3 months
8	B.Sc. Honors in Computer Science	VI	Project Work CMS-A-CC- 6-14-P	Analyzing a complex computing problem and using the principle of computing along with relevant disciplines to design, implement, evaluate and develop the understanding in a new way to address and solve it using suitable computational technology.	In-House Project	4 Months
9	B.Sc. Honors in Food & Nutrition	III	CC6 (COMMU NITY NUTRITIO N)	To get adequate knowledge about lifestyles related to food consumption patterns in order to improve the quality of life and contribute to health promotion of the population in the community where programs and services are delivered.	Visit to Angan wadi Centre	1 Day
10		V	DSE A1 (PUBLIC HEALTH)	To understand the functioning of the Primary Health Centre (PHC) & Community Health Centre (CHC) about the facilities and services provided by them to a communities.	V	1 day
11		VI	DSE A4 (GERIATRIC NUTRITION) OR	To know the how service and facilities provided to them and to sensitize the students about the problems faced by the elderly, learn how to respect them, care for them and their nutritional and disease status.	VI	1 day

(Signature)

Principal
Dr. Mausumi Singh (Sengupta)
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			DSE A-3 - Diet Counselling (Hospital Internship Program)	OR Internships provide interpersonal skill and professional development opportunities to the interns. This enables the interns to be able to analyze patient diets according to their diseases, symptoms and derive the best way to approach their problem. For instance, quick and accurate decisions are required especially in emergency situations.		7-10 days
12		V	Research methodology and Fieldwork Lab - GEO-A-CC-5-11P	Learn the significance of field work in geographical studies. Understand the meaning of the field and identify the case study. Know about different types of field techniques.	Field visit	2 months
13	B.Sc. Honors in Geography	VI	Hazard Management Lab - GEO-A-CC-6-14-P	Understand the definition, classification of hazards and disasters. Gain knowledge about approaches to hazard study. Assess risk, perception, and vulnerability with respect to hazards. Prepare hazard zonation maps. Assessing the nature, impact, and management of major natural and man-made hazards affecting the Indian subcontinent.	Field visit	2 months
14	B.A. Honors in Journalism & Mass Communication	VI	Research Project - JORA-DSE-A-6-3 Dissertation with Presentation	To train students to perform detailed research work on communication related topics and issues. This research work helps in developing a research orientation among the students, which will help in their future academic development.	Research Project	3 Months
15	B.Sc. Honors in Microbiology	V	CC12: Industrial	To acquaint students with basic concepts of the physiology and metabolic processes of industrially important microorganisms.		1 day

Handwritten signature

Principal
Dr. Mausumi Singh (Sengupta)
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			Microbiology (Practical) MCB-A- CC-5-12-P	To understand the basics of fermentation technology, screening techniques, microbial culture preservation techniques, use of bioreactors, etc. iii. To know the detailed downstream processing/ extraction of important microbial products after fermentation and their applications.	Field visit	
16	B.Sc. Honors in Zoology	V	Ecology Lab, ZOOA-CC5- 11-P Report on a visit to National Park.	To learn about the ecosystem and biodiversity as well as instill in students the importance of conservation. Hands on experience in data/sample collection from field, determine population density by quadrature method. Study nearby aquatic ecosystem, determine parameters such as salinity, pH, COD & free CO ₂ of the same.	Field visit	7 days
17	B.Sc. Honors in Zoology	VI	Animal Biotechnology Lab, ZOOA- DSE(A)-6-2- P Animal Cloning and Its Ethical issues.	To understand the pros & cons of Cloning methods. Its utilization to create disease resistant varieties of livestock & enhance the commercially important products.	Project	2 weeks

SAMPLE COPIES OF SOME OF THE PROJECT REPORTS OF STUDENTS

Principal
Dr. Mausumi Singh (Sengupta)
Tara Devi Harakh Chand Kankaria
Jain College, Kolkata
(Affiliated to C.U.)

AECC2 project

A Project Report on

STREET FOOD POISONING ON HUMAN HEALTH



PRESENTED BY :-

NAME – Aditya Ray

CU ROLL NO. – 221235-21-0305

CU REGISTRATION NO. – 235-1111-0699-22

DEPARTMENT - COMMERCE

ACKNOWLEDGEMENT

I feel elated in thanking my supervisor “Anjali Gupta” HEAD OF DEPARTMENT of Commerce, T.H.K JAIN COLLEGE for his valuable suggestion and skilled supervision to carry out this research work. It is a great pleasure in thanking him for the patience he has shown in listening to all my problems regarding this project and for his excellent guidance.

I would like to express my deep sense of gratitude to my Parents and friends for going some extra mile to help me. That include a big thank you to “ Ananya Kundu Dey” my EVS Teacher for going out of her way to extend me. I appreciate that so much because it's helped me to get complete this Project.

At last but not the least I want to thank all my teacher who treasured me for my hard work and encouraged me, where they all exchanged their own interesting ideas, thoughts and made this possible to complete my project with all accurate information.

A.K. Dey
31/10/23 -

Ananya Ray
SIGNATURE

22.06.2023

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5.	BIBLIOGRAPHY	21

ABSTRACT

Food poisoning is the pathological condition when a person gets sick after consuming a particular foodstuff which is mostly contaminated with either pathogenic bacteria or any other pathogen or virus. In food poisoning, person suffers from vomiting, abdominal cramps and diarrhoea. Food poisoning, a type of foodborne illness, is a sickness people get from something they ate or drank. The causes are germs or other harmful things in the food or beverage. When germs that cause food poisoning get into our systems, they can release toxins. These toxins are poisons (the reason for the name "food poisoning") and can cause diarrhea and vomiting. Usually, doctors use "food poisoning" to describe an illness that comes on quickly after eating contaminated food. Food poisoning is encountered throughout the world. Many of the toxins responsible for specific food poisoning syndromes are no longer limited to isolated geographic locations. With increased travel and the ease of transporting food products, it is likely that a patient may present to any emergency department with the clinical effects of food poisoning. Recognizing specific food poisoning syndromes allows emergency health care providers not only to initiate appropriate treatment rapidly but also to notify health departments early and thereby prevent further poisoning cases. This article reviews several potential foodborne poisons and describes each agent's mechanism of toxicity, expected clinical presentation, and currently accepted treatment.

INTRODUCTION

WHAT IS FOOD?

Food is a basic necessity of life, providing energy and nutrients to maintain the human body's physiological and metabolic functions. The definition of food is broad, as it encompasses all substances that humans, plants, and animals can consume. Food can be defined as any material that provides nourishment for the growth and maintenance of life, including repairing tissues, producing hormones, and regulating body temperature. Food can be classified into several categories based on its composition: carbohydrates, proteins, fats, vitamins, minerals, and water. These food components are essential for maintaining health, as they play critical roles in the human body. Carbohydrates provide the body with energy, proteins are essential for growth and repair, fats are a source of energy and help to absorb and transport fat-soluble vitamins, vitamins are essential for maintaining good health, and minerals help regulate metabolic processes.



VALUE OF FOOD

The first reason for food waste in our rich countries is the loss of value of food. One can throw something that has low value. But you'll hardly find someone wasting high value things.

Food waste we can see everywhere (households, restaurants, supermarkets, industry...) is only a consequence of this low value given to food.

We are talking about two values:

- economic value: the food has never been as cheap as today. Average households nowadays spend 12% of their incomes in food, though it was 30% in the 60's

- moral value: today, most of the actors who waste food assume it. It's globally accepted when it should be a shame. That's good news for the food suppliers, which fills their pockets every time we re-buy them a product we already had bought before...for the bin.

So, why has food lost so much value for us?

The principle of supply and demand gives the answer: the supply is too high. We produce a lot, and we buy a lot from all over the world, so consequently, we have a lot more than we need.

1/ We produce a lot:

To maintain agriculture in our countries, we have to make sure that the farmers earn enough here.

The farmer's income is composed of: the crops they sell + a lot of subsidies, especially from Europe (Common Agricultural Policy, CAP).

The help from CAP is combined with an efficient industrialized and polluting agriculture – machines + GMO + inputs (pesticides, fertilizers). From this follow overproductions, to a point where now, in addition to set aside a huge part of the crops for agro-carburants, Europe must take care of limiting the production to avoid the prices to decrease too much.

2/ We buy a lot:

As rich countries in a globalized economy, we can extract pretty much as much as we want from the world markets. It means a lot of food for us, and higher prices for the poorer countries (when we reduce the supply on the market, the remaining part gets more expensive).

As a result of all this (here shortly summarized), we have that much food in our countries that we are now accustomed to 1/excessive choice 2/crazy uniformity 3/incredible affordability, and in that sea of cheap food, we can waste a lot without being hungry.

IMPORTANCE OF FOOD

Food is one of the basic necessities of life. Food contains nutrients—substances essential for the growth, repair, and maintenance of body tissues and for the regulation of vital processes. Nutrients provide the energy our bodies need to function. The energy in food is measured in units called calories.

Importance Of Food

- It helps for proper functioning of every internal and external organs of the body.
- It gives nutrients to the body for growth and development.
- It makes the bod to function properly.
- It gives energy to the body.
- It provides the body with vitamins and minerals.
- It makes the body to be health and active.



STREET FOOD DEFINITION AND EXAMPLE

Street food refers to food or drinks sold by a hawker or vendor on a street or at other public places, such as markets, fairs, and parks. It is often sold from a portable food booth, food cart, or food truck and is meant for immediate consumption. Some street foods are regional, but many have spread beyond their regions of origin. Most street foods are classified as both finger food and fast food and are typically cheaper than restaurant meals.

Few examples of a popular street food dish from West Bengal:

1. **Puchka:** Also known as Gol Gappas and Pani Puri, this tangy, minty street food dish is the best solution for all your mood swings. Crazy loved by the Indian Women, puchkas taste the best when eaten from a roadside stall.
2. **Ghugni Chaat:** Boiled yellow dal tossed in some lemon juice and spices makes a go-to snack while you are in the market. Moreover, as it is a dish made from pulses you can eat it and continue your diet regime. You'll hardly find any street in the state having no Ghugni chaat vendor.

3. Jhal Muri: It has an array of crisps like puffed rice, sev, peanuts, fried lentils, fried peas, chanachur, puri etc., and stuff like finely chopped onions, tomatoes, green chillies, coriander leaves, coconut shavings and some boiled potatoes as well. With various kinds of spices like salt, black salt, chaat masala, red chili powder, cumin powder, dry mango powder etc., and a dash of lemon juice on top, all of it is mixed to create this delicious spicy snack.



EFFECTS OF STREET FOOD

1. Cardiovascular problems

One of the major detrimental side effects of junk food consumption is increased cardiovascular disease risk. A large Harvard study showed that eating high amounts of red meat and sugary treats may trigger inflammation, increasing the risk of heart disease and stroke. However, a diet rich in vegetables, fruits, and other anti-inflammatory foods can reduce the risk while promoting cardiovascular health.

2. High cholesterol

Diets high in saturated fat can raise the levels of low-density lipoprotein (LDL) cholesterol, or 'bad' cholesterol. Avoid or limit the intake of junk food and other unhealthy high-cholesterol foods to reduce your risk while creating a more favourable LDL-to-HDL ratio. High-density lipoproteins (HDL), also known as 'good' cholesterol, helps remove other types of cholesterol from your bloodstream.

3. Diabetes

Research has shown that junk food may raise the risk of developing diabetes in various ways. For instance, foods that are high in calories and low in nutrients break down quickly in the body, which causes a rapid rise in blood sugar levels. Regularly eating junk food may lead to weight gain and excess body fat, which are major risk factors for developing type 2 diabetes. Junk foods are usually high in added salt, which can contribute to high blood pressure linked to an increased risk of type 2 diabetes.

4. Kidney damage


Eating junk and processed foods can take a huge toll on your kidney health. Researchers reported in a 2016 study published

in the journal *Experimental Physiology* that eating junk food can cause damage to your kidneys as much as diabetes. Maintain a healthy diet and lifestyle to promote and protect your kidney health.

6. Liver disease

Diet plays a major role in the development and progression of liver disease. Several studies have shown that excessive consumption of foods that are loaded with unhealthy fats, proteins from meat, refined carbs, and sugar, can cause non-alcoholic fatty liver disease. Unhealthy foods such as junk food combined with a sedentary lifestyle can cause liver damage, leading to cirrhosis and increasing the risk of liver cancer.

HARMFUL EFFECTS OF FAST FOOD



- Obesity
- Respiratory problems
- High blood pressure
- Heart diseases, Stroke
- Type 2 Diabetes
- Hormonal problems
- Digestive system problems
- Depression
- Hair, Nails, Skin problems
- Bone loss

**WHOLESOME
LIFESTYLE**
BY S.A

CONTAMINATION FROM STREET FOOD

Street food is often prepared and served in open-air environments, making it more susceptible to contamination from dust, pollution, insects, and unclean utensils. Lack of proper refrigeration and temperature control can lead to the growth of bacteria.

Unhealthy Ingredients and Cooking Methods: Some street food vendors may use low-quality ingredients, excessive amounts of oil or unhealthy fats, and additives to enhance flavor or prolong shelf life. Consuming such street food regularly can contribute to an unhealthy diet, leading to weight gain, high cholesterol levels.

Lack of Nutritional Balance: While street food can be tasty and filling, it may lack balanced nutrition. Many street food options tend to be high in carbohydrates, unhealthy fats, and sodium, while lacking adequate amounts of fruits, vegetables, and other essential nutrients.



OBJECTIVES OF THE STUDY

The aim of the study is to try to prevent the spread of illness within the community and to try and establish possible causes.

- To recognise the seriousness of food poisoning.
- To know the common symptoms of food poisoning (stomach pains vomiting, diarrhoea)
- To recognise common bacteria involved in food poisoning.
- To try to prevent the spread of illness within the community and to try and establish possible causes.
- To determine the causes of food poisoning due to the consumption of junk food.
- To give examples of bacteria that causes food poisoning (*Campylobacter*, *E. coli*, *salmonella*).
- To describe the optimum conditions for the growth of bacteria (warmth, moisture, food source).
- To identify methods of shopping safely to prevent food poisoning.
- To describe the health impacts of nutritional deficiencies.
- To define and illustrate the difference between food poisoning and food borne infection.
- To summarize different types of food contaminants, the source of these contaminants, and their potential health impacts.

Kolkata is located in the eastern part of India. It has spread linearly along the banks of Hooghly River. The Kolkata Municipal Corporation has an area of 205 square kilometres. The city is near sea level, with the average elevation being 17 feet. The whole area is in the Ganges Delta which starts within 100 km south to the city. Most of the city was originally marshy wetlands, remnants of which can still be found especially towards the eastern parts of the city.

Kolkata has a Tropical wet-and-dry climate, with summer monsoons. The annual mean temperature is 26.8 °C (80 °F); monthly mean temperatures range from 19 °C to 30 °C (67 °F to 86 °F) and maximum temperatures can often exceed 40 °C (104 °F) during May–June. Winter tends to last from December to early-February, with the lowest temperatures hovering in the 12 °C — 14 °C range during December and January. The highest recorded temperature is 43 °C (111 °F) and the lowest is 5 °C (41 °F).

Monsoon is the most notable phenomenon in the climate of the city. Maximum rainfall occurs during the monsoon in August (306 mm) and the average annual total is 1,582 mm. Early morning mists and evening smog occur often due to temperature inversions. Summer is dominated by strong southwesterly monsoon winds. The city's total duration of sunshine is 2,528 hours per annum, with the maximum insolation occurring in March. Often during early summer, spells of thunderstorm and heavy rains lashes the city, bringing some relief from the heat and intolerable humidity. These thunderstorms are locally known as *Kalbaishakhi* (North-west). According to a United Nations Development Programme report, its wind and cyclone zone is "very high damage risk".

METHODOLOGY

We are taking data from secondary sources.

RESULT AND DISCUSSION

PLACE	STREET FOOD	CONSUMPTION RATE	DISEASES
Kolkata	Phuchka	80%	Typhoid.
Chennai	Bhajji	76%	Coronary artery disease.
Mumbai	Pav bhaji	88%	Gastroenteritis.
Delhi	Momo	85%	Contamination and Foodborne Illness.
Gujarat	Dabeli	70%	High Calorie and Fat Content.

Plastic: Plastics are typically organic polymers of high molecular mass and often contain other substances. They are usually synthetic, most commonly derived from petrochemicals, however, an array of variants is made from renewable materials such as polylactic acid from corn or cellulose from cotton linters. **USES OF PLASTICS:** Plastics are widely used in: Packaging industry, Construction industry, Disposable cutlery, Storage, etc.

CAUSES FOR MORE PLASTICS USE: As plastic is less expensive, it is overused. In developed economies, about a third of plastic is used in packaging and roughly the same in building in application such as piping, plumbing or vinyl siding. Other uses include automobiles (up to 20% plastic), furniture, and toys. Plastics have many uses in the medical field.

Plastic Pollution in Kolkata and Its Surrounding Areas: In India approximately, 12 million tonnes plastic products are consumed every year, which is expected to rise further. As per study conducted by CPCB

in collaboration with CIPET, Ahmedabad on Qualification and Characterisation of Plastic Waste Generation in 60 major cities (2010-12) in the country, the percentage of plastic wastes present in the municipal solid waste (MSW) of the cities is ranging from 3.10% to 12.47%.

PLASTIC CARRY BAGS Status of use of plastic carry bags and impact of imposition of Bags: M/s Toxicslink conducted a study in Kolkata to review the thickness) as per Plastic Waste Management Rules 2011. The status of implementation of ban on use of plastic carry bags (less than 40 sample size was 940 people (630 consumers and 310 vendors) from different parts of the city.

BIBLIOGRAPHY

- M. Ackah, E. T. Gyamfi, A. K. Anim, J. Osei, J. K. Hasnsen, and O. Agyemang, "Socioeconomic profile, knowledge of hygiene and food safety practices among street-food vendors in some parts of Accra-Ghana," *Internet Journal of Food Safety*, vol. 13, pp. 191–197, 2011
- Ackah, M., Gyamfi, E.T., Anim, A.K., Osei, J., Hansen, J.K., & Agyemang, O. (2011). Socio-Economic profile, knowledge of hygiene and food safety practices among street-food vendors in some parts of Accra-Ghana. *Internet Journal of Food Safety*, 13: 191-197
- Street foods. Rome: FAO; 1997.
- DeSousa CP. The impact of food manufacturing practices on food borne diseases. *Braz Arch Biol Technol*.
- Bryan FL. Risks of practices, procedures and processes that lead to outbreaks of food borne diseases. *J Food Prot*.
- Bawa IH, Tchamba GB, Bagré TS, Bouda SC, Konaté A, Bako E, et al. antimicrobial susceptibility of *Salmonella enterica* strains isolated from raw beef, mutton and intestines sold in Ouagadougou, Burkina Faso. *J Appl Biosci*.

BBA report

Project Report

(Submitted for the Summer Internship Project in BBA Hons.
under the University of Calcutta)

TITLE OF THE PROJECT:

INTERNSHIP PROJECT ON DIGITAL MARKETING



SUBMITTED BY:

NAME OF THE STUDENT: KARAN YADAV

UNIVERSITY REGISTRATION NO: 235-1111-0885-21

UNIVERSITY ROLL NO: 235-BBAS-21-2-2021

SUPERVISED BY:

NAME OF THE SUPERVISOR: PROF SOUMYATANU ADHIKARY

MONTH AND YEAR OF SUBMISSION

JUNE 2023

NAME OF THE COLLEGE:

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

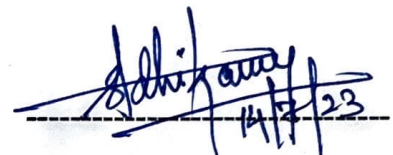
Pranav
14.7.23

Supervisor's Certificate

This is to certify that the work titled 'Digital Marketing' as part of the second year Major Research Project submitted by Karan Yadav under the guidance of Professor Soumyatanu Adhikary, T H K Jain College. This original work and has not been submitted anywhere else for the award of any credits/ degree whatsoever. The project is submitted to THK Jain College, Calcutta University in partial fulfilment of the requirement for the award of the degree of Bachelor of Business Administration.

Date: 30/06/2023

Place: Kolkata

A handwritten signature in blue ink, appearing to read 'Soumyatanu Adhikary', is written over a horizontal dashed line. To the right of the signature, the date '14/7/23' is handwritten.

Name of The Supervisor

Designation: Faculty of BBA

THK Jain College

Project Report

(Submitted for the degree of BBA Honours under the
University of Calcutta)

Title Of the Project: -

“DIGITAL MARKETING”

Submitted by:

Name of the student: Vishal Pasi

University Registration no.: 235-1111-0921-21


University Roll No.: 235-BBAS-21-2-0049

Supervised by:

Name of the supervisor: Prof. Soumyatanu Adhikary

Month and year of submission:

29.06.2023

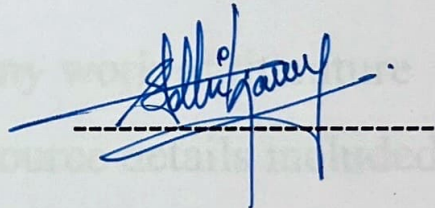

17/6/23

① Chong
14.7.23

Supervisor's Certificate

This is to certify that the work titled 'digital marketing' as part of the second year Project submitted by Vishal Pasi under the guidance of Prof. **Soumyatanu Adhikary**, Professor of T H K Jain College. This original work and has not been submitted anywhere else for the award of any credits/ degree whatsoever.

The project is submitted to THK Jain College, Calcutta University in partial fulfilment of the requirement for the award of the degree of Bachelor of Business Administration



Date: 29.06.2023

Prof. **Soumyatanu Adhikary**

Place: Kolkata

Designation: - Faculty

T H K Jain College

Project Report

(Submitted for the degree of BBA Honors under the University of Calcutta)

Title Of the Project: -

“DIGITAL MARKETING”

Submitted by:

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University Registration no.: 235-1211-0941-21

University Roll No.: 235-BBAS-21-1-0002

Supervised by:

Name of the supervisor: Prof. Soumyatanu Adhikary

Month and year of submission: 29.06.2023

Name of the college:

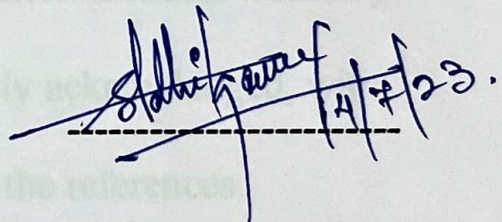
Tara Devi Harakh Chand Kankaria Jain

SUPERVISOR'S CERTIFICATE

STUDENT'S DECLARATION

This is to certify that the work titled 'digital marketing' as part of the second year Project submitted by Akamksha Prem Kumar under the guidance of Prof. **Soumyatanu Adhikary**, Professor of T H K Jain College. This original work and has not been submitted anywhere else for the award of any credits/ degree whatsoever.

The project is submitted to THK Jain College, Calcutta University in partial fulfilment of the requirement for the award of the degree of
Bachelor of Business Administration

 4/7/23.

Date: 29.06.2023

Prof. **Soumyatanu Adhikary**

Place: Kolkata

Designation: - Faculty

T H K Jain College

Project Report

**(Submitted for the degree of BBA Honors under the
University of Calcutta)**

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Title Of the Project: -

“DIGITAL MARKETING”

Submitted by:

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University Roll No.: 235-BBAS-21-2-0028


Supervised by:

Name of the supervisor: Prof. Soumyatanu Adhikary

Month and year of submission: 29.06.2023

Name of the college:

Tara Devi Harakh Chand Kankaria Jain

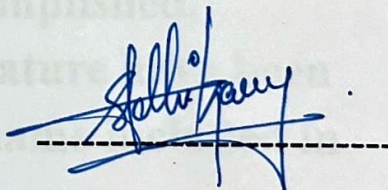

① Bharati
14.7.23

SUPERVISOR'S CERTIFICATE

Page | 2

This is to certify that the work titled 'digital marketing' as part of the second year Project submitted by Rahul kumar Dubey under the guidance of Prof. Soumyatanu Adhikary, Professor of T H K Jain College. This original work and has not been submitted anywhere else for the award of any credits/ degree whatsoever.

The project is submitted to THK Jain College, Calcutta University in partial fulfilment of the requirement for the award of the degree of Bachelor of Business Administration



Date: 29.06.2023

Prof. Soumyatanu Adhikary

Place: Kolkata

Designation: - Faculty

T H K Jain College

“ Study on Social media marketing & Customer review ”

A PROJECT REPORT

Submitted by

Rohit Agarwala



Company name – Anuxi India

Date of submission : 26.06.23


Pradya
14.7.23

INTERNSHIP CERTIFICATE
To Whom It May Concern

This is to certify that **Mr. Rohit Agarwala**, a second-year student of **BBA(HONS) in Marketing** at **Tara Devi Harakh Chand Kankaria Jain College, Kolkata** has been associated as an **Management Trainee in the Social Media Marketing and Sales** with **ANKUXI INDIA**, with term sheet of 2 months starting from **15.02.2023 to 30.04.2023** both days inclusive during which he has shown excellence and has fully utilized the company's budget allocated to him since past two months under the guidance of **Mr. Prithwish Deb, Manager**.

Our company hereby looks forward to work with him in upcoming projects and also refer him for future marketing programs on the basis of his merit and experience with us.

We wish him success for the future.

ANKUXI INDIA

Authorized Signature

Manager – Marketing

info@ankuxi.com

7479039090

Date 01-05-2023

PROJECT REPORT

(Submitted for the degree of BBA Honors under the University of Calcutta)

TITLE OF THE PROJECT

“Ed-Tech Platforms and Online Learning”



SUBMITTED BY:

Name of the Student: **ROHIT SINGH**
CU Registration No.: **235-1111-0898-21**
CU Roll No.: **235-BBAS-21-2-0034**

SUPERVISED BY:

Prof. Soumyatanu Adhikary

Name of the college:

Tara Devi Harakh Chand Kankaria Jain College

Date and year of submission: 29.06.2023

(Signature)

14.7.23

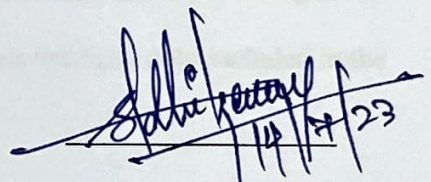
SUPERVISOR'S CERTIFICATE

This is to confirm that **Rohit Singh**, working under the direction of **Prof. Soumyatanu Adhikary**, a Professor at T H K Jain College, has submitted the paper titled "**Ed-Tech and Online Learning**" as a component of the second-year Internship Research Project. This unique work has never been submitted anywhere for the purpose of receiving any kind of credit or degree.

As a partial satisfaction of the criteria for the award of the degree of Bachelor of Business Administration(H), the project is submitted to THK Jain College, Calcutta University.

Date: 29.06.2023

Place: Kolkata



Signature

Prof. Soumyatanu Adhikary

Designation: HOD - BBA Department

T H K Jain College

Under

Calcutta University

“ Study on Human Resource Management ”

A PROJECT REPORT

Submitted by

SHIVAM SHAW




Company name – Anuxi India

Date of submission : 26.06.23

Shivam
14.7.23

CERTIFICATE

Certified that this project report "*Study on Human Resource Management*" is the bonafide work of "Shivam Shaw" who carried out the project work under my supervision.


Soumyatanu Adhikary
HOD

Dr. Mausumi Singh
Principal

Bachelors of Business Administration(BBA)

THK JAIN COLLEGE, KOLKATA

Under

CALCUTTA UNIVERSITY

B.Com Project

PROJECT REPORT

Submitted for the degree of B.com Honors in Accounting & Finance under the University of Calcutta

TITLE OF THE PROJECT:

Assessment of Fiscal Performance of Major Indian States: A Study

SUBMITTED BY

Name of the Candidate: Nayanika Choudhury

CU Registration Number: 235-1211-0606-20

CU Roll Number: 201235-11-0134

Name of the College: T.H.K Jain College

College Roll Number: 626

SUPERVISED BY

Name of the Supervisor: Prof. Neeloy Gupta

MONTH & YEAR OF SUBMISSION

June 2023

Annexure- IA

SUPERVISOR'S CERTIFICATE

This is to certify that Miss Nayanika Choudhury a student of B.Com. Honours in Accounting & Finance of "T.H.K JAIN College" under the University of Calcutta has worked under my supervision and guidance for his Project Work and prepared a Project Report with the title "**Assessment of Fiscal Performance of Major Indian States: A Study**" which he is submitting, is his genuine and original work to the best of my knowledge.

N. Gupta

NAME: NEELLOY GUPTA

DESIGNATION: HOD OF ECONOMICS

NAME OF THE COLLEGE: T.H.K. JAIN COLLEGE

DATE: 10. 6 . 23.

ACKNOWLEDGMENT

Words put on paper are mere link marks, but when they have a purpose there exists a thought behind them. Similarly, I have a purpose to express my gratitude towards those Individuals, without whose guidance the project would not have been possible. I would like to express my thanks to Prof. “Dr Mousumi Singh Sengupta” (Principal of our College) who has kindly provided me with the opportunity to pursue the project.

I am thankful to our Prof “Anjali Gupta” (HOD of the Commerce Department) and all the departmental professors for their kind support and guidance.

I also take this opportunity to express a great sense of gratitude towards Prof “Neeloy Gupta” (project supervisor), for providing me the vital inputs to co-relate the present project work and hence provide a sound base to the report structure.

I am very glad to work with the organization.

Work on this project has proved to an enlightening experience for me.

NAYANIKA CHOUDHURY

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Chapter 1

Introduction

1.1 Background of the study

The financial performance of several states in India is important for driving economic growth, addressing regional disparities, ensuring fiscal stability, delivering essential services, attracting investments, and guiding policy formulation. States play a crucial role in the country's overall economic development, and their financial health directly impacts the national GDP. Monitoring state finances helps identify regional imbalances and allows policymakers to allocate resources efficiently for inclusive growth. Strong financial management at the state level ensures fiscal stability and the ability to provide essential services. It also enhances the attractiveness of states to investors and informs policymakers in designing effective policies. Therefore, the financial performance of several Indian states holds significant importance for the overall development, stability of the country and overall macroeconomy performance of the economy. The RBI is also concerned about the financial performance of the states whose economic growth has deteriorated in the previous years. They are also worried about the disparity between the states whose economy growth is in good shape and the state whose economy growth has declined. Therefore, considering all such complications we have taken “**Assessment of Fiscal Performance of Major Indian States: A Study**” as our project topic to find remedies for such issues.

1.2 Need of the study

The financial performance of states in India, including West Bengal, varies based on a range of factors. Maharashtra and Gujarat have shown strong performance, driven by diverse economies and favorable business environments. Karnataka and Tamil Nadu have capitalized on technology and manufacturing sectors, attracting investments and achieving sound financial positions. Uttar Pradesh faces challenges but has made efforts in infrastructure development. West Bengal, while having a mixed performance, has recently focused on policy reforms and initiatives to enhance its financial position. It has diverse sectors, but attracting private investments and promoting industrial development remain areas for improvement. Continued monitoring and targeted measures are essential to drive sustainable growth in these states. Therefore, it is required for us to know the financial positions of the states so as to get a knowledge of how efficiently these states are working.

1.3 Literature Review

Saket Surya's (published 2021) report examines the financial position of Indian states and union territories, highlighting the challenges they face due to economic slowdown and COVID-19 pandemic. The reliance on borrowings to sustain expenditure has led to increased liabilities and higher deficits. Fiscal consolidation is identified as a crucial long-term goal, requiring expenditure recalibration and revenue enhancement.

1.4 Objective of the study

1. To focus on the basic concept of several fiscal indicators in the context of several Indian states.

2. To explore the fiscal performance of selected Indian states over the time period and
3. To explore the performance of several states in regard of revenue and fiscal deficit.

1.5 Data methodology

The entire data which has been used here is from the primary and secondary sources and the entire data has been collected from RBI's website and for this project we have taken eighteen major states which are segregated under the head of zones. The following table shows eighteen states under the head of their zones:

Zones	Selected States	Number of selected States
Eastern	Bihar West Bengal Odisha	3
North east	Assam Arunachal Pradesh Meghalaya	3
South	Tamil Nadu Karnataka Andhra Pradesh	3
North	Punjab NCT Delhi Uttar Pradesh Jammu & Kashmir	4
Central	Madhya Pradesh Chhattisgarh	2
West	Goa Gujarat Maharashtra	3
TOTAL		18

1.6 Limitation of the study

1. We have taken eighteen states as a whole but majorly focused on only six states due to time constraints.
2. We have not taken into consideration other fiscal parameters because of temporal constraint.

1.7 Chapter Planning

The rest of the project has been divided as per the following chapters

CHAPTER 2: This chapter aims to discuss about the concepts related to revenue and expenditure of the government.

CHAPTER 3: This chapter discusses data related to the income and expenditure of the state governments across India; along with that the position of the states in terms of their fiscal and revenue deficits have been incorporated.

CHAPTER 4: This chapter concludes the entire study and some suitable recommendations have been incorporated.

CHAPTER 2

Conceptual Framework

In this chapter we will explain all the concepts pertaining to this chapter.

Tax Revenue: Tax revenue is a vital source of funding for governments, collected through taxes imposed on individuals and businesses. It supports public services, infrastructure development, and social welfare programs. The effective management of tax revenue is crucial for economic growth, income redistribution, and fiscal sustainability. Governments strive to strike a balance between promoting economic activity and ensuring a fair and efficient tax system while addressing challenges like tax evasion. Overall, tax revenue plays a significant role in shaping a nation's financial health and its ability to meet the needs of its citizens.

Non-Tax Revenue: Non-tax revenue refers to income generated by governments from sources other than taxes. It includes revenue streams like fees, fines, licenses, permits, royalties, dividends, and proceeds from the sale of government assets. Non-tax revenue plays a crucial role in supplementing tax income, diversifying government revenue sources, and financing specific projects or services. It can be derived from various sectors, such as public utilities, natural resources, public enterprises, and investments, contributing to a more balanced and sustainable fiscal framework.

Capital Receipt: Capital receipts refer to the funds raised by the government through the sale of assets or loans, and they contribute to the country's capital formation. These receipts include disinvestment proceeds from the sale of government-owned shares, loans and borrowings from domestic and international sources, and recoveries of loans given by the government. Capital receipts play a vital role in financing developmental projects, reducing fiscal deficits, and facilitating investment in critical sectors of the economy, contributing to long-term growth and infrastructure development in the country.

Capital Expenditure: Capital expenditure refers to the funds allocated by governments or organizations for acquiring or upgrading long-term assets, such as buildings, infrastructure, equipment, or technology, with the aim of enhancing productivity, efficiency, and future growth. It represents investments made to improve or expand the productive capacity of an entity. Capital expenditures are essential for promoting economic development, stimulating employment, and enhancing the quality of public services, as they contribute to the long-term sustainability and progress of an organization or a nation.

Revenue Receipts: Revenue receipts encompass the funds received by the government through various sources other than borrowing or the sale of assets. They include tax revenue, non-tax revenue, and grants from external sources. Revenue receipts are crucial for meeting the day-to-day expenses of the government, such as salaries, maintenance costs, subsidies, and social welfare programs. These receipts provide a steady income stream that supports the functioning of the government, enables the provision of essential services, and helps maintain fiscal stability.

Revenue Expenditure: Revenue expenditure refers to the funds spent by governments or organizations on regular operational expenses and day-to-day activities, such as salaries, wages, maintenance costs, utilities, supplies, and subsidies. It does not involve the acquisition

or creation of long-term assets. Revenue expenditure is essential for sustaining the ongoing operations and services provided by an entity. It covers essential areas like education, healthcare, infrastructure maintenance, and administrative functions, ensuring the smooth functioning of the organization or government and meeting the immediate needs of the public.

Revenue Deficit/ Surplus: Revenue deficit occurs when a government's total revenue falls short of its total revenue expenditure, excluding borrowing. It indicates that the government is relying on borrowings or capital receipts to meet its day-to-day expenses. This situation can result in increased debt and fiscal imbalances. On the other hand, revenue surplus occurs when a government's total revenue exceeds its total revenue expenditure, indicating that it has generated a surplus in its regular operations. A revenue surplus can be used for debt repayment, investment in infrastructure, or building reserves, contributing to fiscal stability and future growth.

Fiscal Deficit/ Surplus: Fiscal deficit refers to the situation where a government's total expenditures exceed its total revenues, including both revenue and capital receipts. It indicates that the government is relying on borrowings or depleting its capital reserves to bridge the gap. A fiscal deficit can have implications such as increased debt, inflationary pressures, and limited fiscal flexibility. Conversely, a fiscal surplus occurs when a government's total revenues exceed its total expenditures. A fiscal surplus can enable debt reduction, create room for investments, and enhance economic stability by building reserves and reducing the dependency on borrowings.

Factors contributing to the rise in the revenue expenditure:

Several factors contribute to the rise in revenue expenditure in India. These include increasing salary and pension payments for the growing public sector workforce, subsidies and welfare programs aimed at social welfare, interest payments on loans and borrowings, administrative and operational expenses, grants to states and union territories, defence expenditure, and debt servicing. Balancing revenue expenditure with revenue generation, implementing subsidy reforms, controlling administrative costs, and enhancing revenue mobilization through taxation are essential to address the factors driving the increase in revenue expenditure and ensure fiscal sustainability.

Formula:

Revenue deficit/ surplus = Capital expenditure – Income

Chapter 3

Presentation of Data, Analysis and Framework

This chapter aims to focus on the performance of different states in terms of the secondary data.

Tax Revenue of Different states (in crores)

The following table shows the tax revenue from the year 2015-16 to 2020-21 of major eighteen states

State/Union Territory	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	1135	1545	1558	2186	2403	3507	4131	3700	7839
West Bengal	1918	2023	1627	1862	2950	3117	3658	3213	2466
Odisha	8078	8379	8071	8711	8043	8398	14277	14647	21000
Assam	2474	2705	2413	2742	4353	4072	8221	5539	4731
Arunachal Pradesh	284	405	458	392	545	366	609	651	615
Meghalaya	485	598	343	229	685	367	428	530	690
Tamil Nadu	6554	9343	8351	8918	9914	10764	14200	12888	12683
Karnataka	3966	4032	4688	5355	5795	6477	6773	7681	7730
Andhra Pradesh	15999	15473	10976	4920	5193	3814	4396	3315	3310
Punjab	2629	3191	2880	2650	5863	4318	7582	6654	4633
NCT Delhi	627	659	633	515	381	766	644	1097	1200
Uttar Pradesh	12970	16450	19935	23135	28944	19795	30101	81705	10812
Jammu & Kashmir	2160	2870	1978	3913	4072	4362	4349	4260	9793
Madhya Pradesh	7000	7705	10375	8569	9087	9061	13288	10350	9715
Chhattisgarh	4616	5101	4875	5215	5669	6340	7703	7934	8495
Goa	1833	1662	2326	2432	2712	3033	2874	2738	3820
Gujarat	6017	7018	9543	10194	13346	15074	13417	18104	12811
Maharashtra	9984	11352	12581	13423	12709	16680	15844	14297	15147

Table 1.1

Data Source: RBI

The following table and graph show the growth rate of tax revenue of different zones which is derived from the above table 1.1

Growth rate of Tax Revenue (in %)

State/Union Territory	Growth Rate (2013-2014)	Growth Rate (2014-2015)	Growth Rate (2015-2016)	Growth Rate (2016-2017)	Growth Rate (2017-2018)	Growth Rate (2018-2019)	Growth Rate (2019-2020)	Growth Rate (2020-2021)
Bihar	36.12	0.84	40.31	9.93	45.94	17.79	-10.43	111.86
West Bengal	5.47	-19.57	14.44	58.43	5.66	17.36	-12.17	-23.25
Odisha	3.72	-3.68	7.93	-7.67	4.41	70.00	2.59	43.37
Assam	9.33	-10.79	13.63	58.75	-6.46	101.89	-32.62	-14.59
Arunachal Pradesh	42.6	13.09	14.41	39.03	32.84	66.39	6.90	5.53
Meghalaya	23.29	-42.64	-33.24	199.13	-46.42	16.62	23.83	30.19
Tamil Nadu	42.55	-10.62	6.79	11.17	8.57	31.92	-9.24	-1.59
Karnataka	1.66	16.27	14.23	8.22	11.77	4.57	13.41	0.64
Andhra Pradesh	-3.28	-29.06	-55.17	5.55	-26.55	15.26	-24.59	-0.15
Punjab	21.37	-9.75	-7.99	121.25	-26.35	75.59	-12.24	-30.37
NCT Delhi	5.1	-3.95	-18.64	-26.02	101.05	-15.93	70.34	9.39
Uttar Pradesh	26.83	21.19	16.05	25.11	-31.61	52.06	171.44	-86.77
Jammu & Kashmir	32.87	-31.08	97.83	4.06	7.12	-0.30	-2.05	129.88
Madhya Pradesh	10.07	34.65	-17.41	6.05	-0.29	46.65	-22.11	-6.14
Chhattisgarh	10.5	-4.43	6.97	8.71	11.84	21.50	3.00	7.07
Goa	-9.32	39.95	4.56	11.51	11.84	-5.24	-4.73	39.52
Gujarat	16.63	35.98	6.82	30.92	12.95	-10.99	34.93	-29.24
Maharashtra	13.7	10.83	6.69	-5.32	31.25	-5.01	-9.76	5.95

Table 1.2

The author's calculation based on the data taken from the RBI

Here we tried to show the Average growth rate of different zones.

AVERAGE GROWTH RATE (in%) OF TAX REVENUE OF DIFFERENT ZONES

Eastern	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Bihar	9.93	45.94	17.79	-10.43	111.86
West Bengal	58.43	5.66	17.36	-12.17	-23.25
Odisha	-7.67	4.41	70.00	2.59	43.37
Average Growth Rate	20.23	18.67	35.05	-6.67	43.99

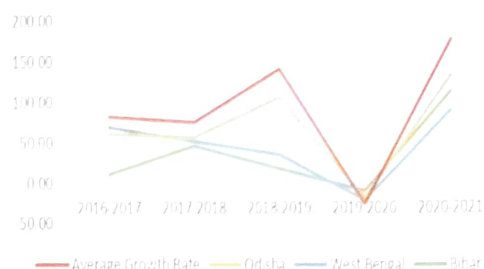


Table 1.3

The author's calculation based on the data taken from RBI

The growth rates indicate the performance of each state in the Eastern zone over the specified years. While Bihar and Odisha had a mix of positive and negative growth rates, West Bengal faced challenges with declining growth rates in recent years. However, Bihar's exceptional growth rate in 2020-2021 indicates a substantial improvement, while Odisha's high growth rate in 2018-2019 reflects a period of strong economic performance. The Eastern zone as a whole displayed a positive growth trajectory, with an average growth rate of 43.99%. This indicates a strong overall economic performance, driven by the growth rates of individual states within the zone. The Eastern zone experienced significant growth in certain years, offset by occasional declines in others.

North east	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Assam	58.75	-6.46	101.89	-32.62	-14.59
Arunachal Pradesh	39.03	-32.84	66.39	6.90	-5.53
Meghalaya	199.13	-46.42	16.62	23.83	30.19
Average Growth Rate	98.97	-28.57	61.63	-0.63	3.36

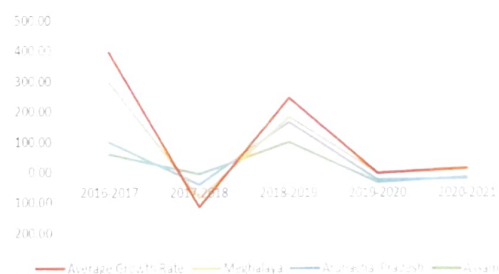


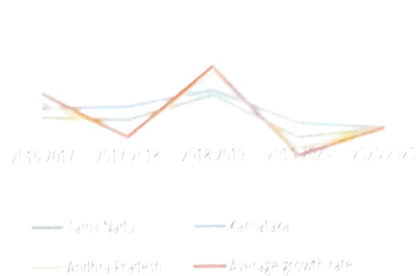
Table 1.4

The author's calculation based on the data taken from RBI

The North Eastern zone comprises three states with distinct economic performances. Assam showcased mixed growth rates, starting with a high growth rate of 58.75% in 2016-2017, but experiencing declines in subsequent years, particularly a significant dip of -32.62% in 2019-2020. Arunachal Pradesh demonstrated fluctuating growth, recovering from a decline in 2017-2018 with a growth rate of 66.39% in 2018-2019. Meghalaya experienced a remarkable growth rate of 199.13% in 2016-2017, followed by a steep decline in the next year. However, the state recovered in 2019-2020 and 2020-2021 with positive growth rates. The average growth rate for the North Eastern zone was 3.36%, indicating overall modest growth during the specified period.

South	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	100.00
Tamil Nadu	11.17	8.57	31.92	-9.24	-1.59	50.00
Karnataka	8.22	11.77	4.57	13.41	0.64	0.00
Andhra Pradesh	5.55	-26.55	15.26	-24.59	-0.15	50.00
<i>Average growth rate</i>	8.31	-2.07	7.25	-6.81	-0.37	50.00

table 1.5



The author’s calculation based on the data taken from RBI

The Southern zone consists of three states with varying growth patterns during the specified years. Tamil Nadu demonstrated a mixed performance, with positive growth rates in the initial years, such as 11.17% in 2016-2017 and 31.92% in 2018-2019. However, the state faced challenges in 2019-2020 and 2020-2021, recording negative growth rates of -9.24% and -1.59%, respectively. Karnataka displayed a relatively stable growth trajectory, with growth rates ranging from 4.57% to 13.41% over the years. Andhra Pradesh faced fluctuations, including negative growth rates of -26.55% and -24.59% in 2017-2018 and 2019-2020, respectively. The average growth rate for the Southern zone was -0.37%, indicating a slight overall decline during the specified period.

North	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	500.00
Punjab	121.25	-26.35	75.59	-12.24	-30.37	0.00
NCT Delhi	-26.02	101.05	-15.93	70.34	9.39	500.00
Uttar Pradesh	25.11	-31.61	52.06	171.44	-86.77	-500.00
Jammu & Kashmir	4.06	7.12	-0.30	-2.05	129.88	0.00
<i>Average Growth Rate</i>	31.10	12.55	27.86	56.87	5.53	0.00

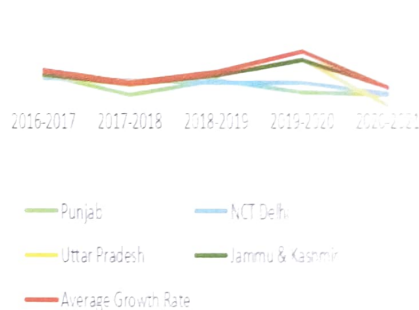


Table 1.6

The author’s calculation based on the data taken from RBI

The Northern zone consists of four states with varying economic performances. Punjab started with significant growth in 2016-2017 but faced declines in subsequent years. NCT Delhi exhibited fluctuating growth rates, including a remarkable increase in 2017-2018. Uttar Pradesh experienced fluctuations, with a notable growth rate in 2019-2020 but a sharp decline in 2020-2021. Jammu & Kashmir demonstrated modest growth overall, with notable growth in 2020-2021. The average growth rate for the Northern zone was 5.53%, indicating moderate overall growth during the specified period

Central	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Madhya Pradesh	6.05	-0.29	46.65	-	-6.14
Chhattisgarh	8.71	11.84	21.50	3.00	7.07
Average Growth Rate	7.38	5.77	34.07	-9.55	0.46

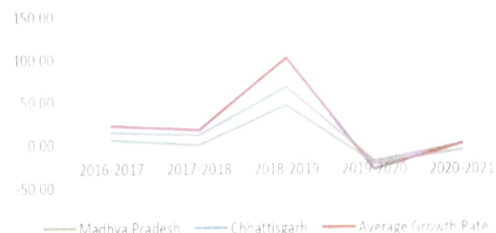


Table 1.7

The author's calculation based on the data taken from RBI

The Central zone consists of two states with distinct economic performances. Madhya Pradesh showcased moderate growth rates, with fluctuations throughout the specified years. It experienced notable growth in 2018-2019 but faced declines in 2019-2020 and 2020-2021. Chhattisgarh displayed relatively consistent growth, with positive growth rates in each year. The average growth rate for the Central zone was 0.46%, specified period. Despite variations in growth rates between the two states, both contributed to the modest average growth of the Central zone.

West	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Goa	11.51	11.84	-5.24	-4.73	39.52
Gujarat	30.92	12.95	-	34.93	-
Maharashtra	-5.32	31.25	-5.01	-9.76	5.95
Average growth rate	12.37	18.68	-7.08	6.81	5.07

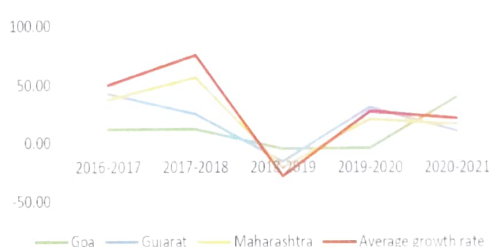


Table 1.8

The author's calculation based on the data taken from RBI

The Western zone comprises three states: Goa, Gujarat, and Maharashtra. Goa demonstrated overall positive growth, with notable growth rates in 2016-2017 and 2020-2021. Gujarat experienced fluctuations, with significant growth in 2016-2017 and 2017-2018 but declines in 2018-2019 and 2020-2021. Maharashtra displayed mixed results, with declines in 2016-2017 and 2019-2020 but notable growth in 2017-2018 and 2020-2021. The average growth rate for the Western zone was 5.07%, indicating moderate overall growth during the specified period. Despite variations, the Western zone maintained a positive average growth rate.

The following table shows the non-tax revenue of eighteen major states from the year 2015 – 16 to 2020 – 21.

NON - TAX REVENUE of different States (in crores Rs)

State/Union Territory	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	16253	19961	20750	25449	23742	29708	30858	30144	34750
West Bengal	32808	35831	39412	42492	45466	57701	61831	60669	59887
Odisha	15034	16892	19828	22527	22852	31070	31015	32315	32500
Assam	8250	8995	9450	10107	12080	15467	16422	16529	18678
Arunachal Pradesh	316	435	462	535	709	1747	1274	1229	1500
Meghalaya	848	949	939	1057	1186	1887	1890	1891	2377
Tamil Nadu	71254	73718	78657	80476	85941	96472	106138	107462	109969
Karnataka	53754	62604	70180	75550	82956	90335	97537	102363	94942
Andhra Pradesh	59875	64124	42618	39907	44181	52414	58677	57601	57359
Punjab	22588	24079	25570	26690	27747	31496	31811	29995	30409
NCT Delhi	23432	25919	26604	30225	31140	35717	36625	36566	29300
Uttar Pradesh	58098	66582	74172	81106	85966	109605	122816	122826	124867
Jammu & Kashmir	5832	6273	6334	7326	7819	10797	10104	9467	10837
Madhya Pradesh	30582	33552	36567	40214	44194	49943	52125	55824	53147
Chhattisgarh	13034	14343	15707	17075	18945	21989	21889	22118	22550
Goa	2940	3582	3896	3975	4261	4988	4871	4701	5164
Gujarat	53897	56372	61340	62649	64443	73646	80565	79008	83410
Maharashtra	103449	108598	115064	126608	136592	171686	188341	188945	184519

Table 2.1

Data source: RBI

The following table and graph show the growth rate of non-tax revenue of different zones which is derived from the above table 2.1

Growth Rate of NON-TAX REVENUE (in %)

State/Union Territory	Growth Rate (2013-2014)	Growth Rate (2014-2015)	Growth Rate (2015-2016)	Growth Rate (2016-2017)	Growth Rate (2017-2018)	Growth Rate (2018-2019)	Growth Rate (2019-2020)	Growth Rate (2020-2021)
Bihar	22.81	3.95	22.65	-6.71	25.13	3.87	-2.31	15.28
West Bengal	9.21	9.99	7.81	7.00	26.91	7.16	-1.88	-1.29
Odisha	12.36	17.38	13.61	1.44	35.96	-0.18	4.19	0.57
Assam	9.03	5.06	6.95	19.52	28.04	6.17	0.65	13.00
Arunachal Pradesh	37.66	6.21	15.80	32.52	146.40	27.07	3.53	22.05
Meghalaya	11.91	-1.05	12.57	12.20	59.11	0.16	0.05	25.70
Tamil Nadu	3.46	6.70	2.31	6.79	12.25	10.02	1.25	2.33
Karnataka	16.46	12.10	7.65	9.80	8.90	7.97	4.95	-7.25
Andhra Pradesh	7.10	-33.54	-6.36	10.71	18.63	11.95	-1.83	-0.42
Punjab	6.60	6.19	4.38	3.96	13.51	1.00	-5.71	1.38
NCT Delhi	10.61	2.64	13.61	3.03	14.70	2.54	-0.16	-19.87
Uttar Pradesh	14.60	11.40	9.35	5.99	27.50	12.05	0.01	1.66
Jammu & Kashmir	7.56	0.97	15.66	6.73	38.09	-6.42	-6.30	14.47
Madhya Pradesh	9.71	8.99	9.97	9.90	13.01	4.37	7.10	-4.80
Chhattisgarh	10.04	9.51	8.71	10.95	16.07	-0.45	1.05	1.95
Goa	21.84	8.77	2.03	7.19	17.06	-2.35	-3.49	9.85
Gujarat	4.59	8.81	2.13	2.86	14.28	9.39	-1.93	5.57
Maharashtra	4.98	5.95	10.03	7.89	25.69	9.70	0.32	-2.34

Table 2.2

The author 's calculation taken from the source RBI

The following graph and table show the average growth rate of different zones derived from the above table.

AVERAGE GROWTH RATE (in %) OF NON – TAX REVENUE OF DIFFERENT ZONES

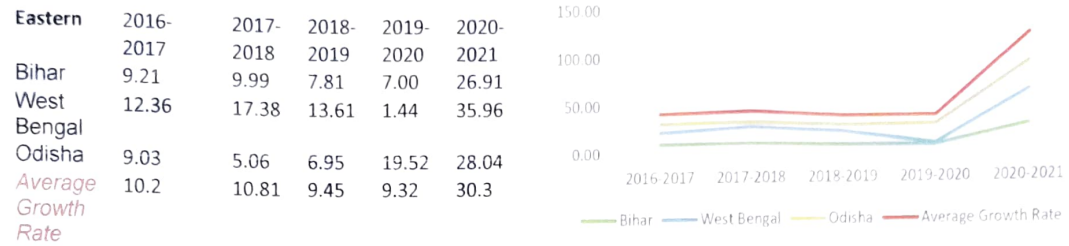


Table 2.3

The author’s calculation based on the data taken from RBI

The Eastern zone comprises Bihar, West Bengal, and Odisha. Bihar witnessed consistent growth, with positive rates each year. West Bengal displayed moderate growth, with notable rates in 2017-2018 and 2020-2021. Odisha showcased steady growth, with positive rates in all years. The average growth rate for the Eastern zone was 30.3%, indicating significant overall growth. Collectively, the states in the Eastern zone contributed the robust average growth rate.

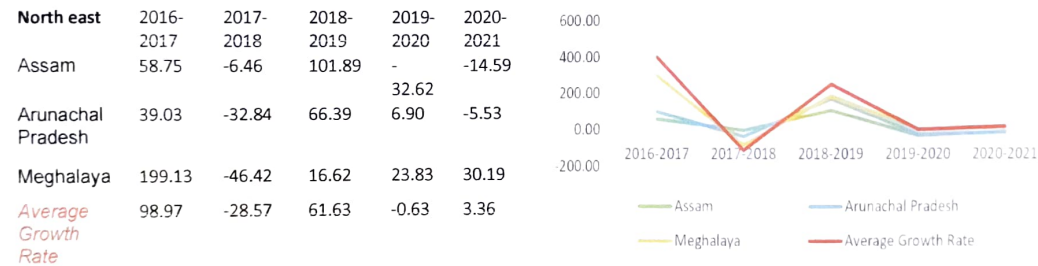


Table 2.4

The author’s calculation based on the data taken from RBI

The North-Eastern zone comprises Assam, Arunachal Pradesh, and Meghalaya. Assam experienced consistent growth with positive rates each year. Arunachal Pradesh and Meghalaya demonstrated stable growth with moderate rates. The average growth rate for the North-Eastern zone was 22.39%, indicating significant overall growth. These states collectively contributed to the robust average growth rate, highlighting the positive economic performance of the North-Eastern zone.

South	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Tamil Nadu	11.17	8.57	31.92	-9.24	-1.59
Karnataka	8.22	11.77	4.57	13.41	0.64
Andhra Pradesh	5.55	-26.55	15.26	-24.59	-0.15
Average growth rate	8.31	-2.07	7.25	-6.81	-0.37

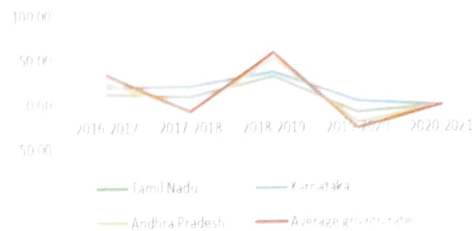


table 2.5

The author's calculation based on the data taken from RBI

The South zone encompasses Tamil Nadu, Karnataka, and Andhra Pradesh. Tamil Nadu exhibited steady growth throughout the period, while Karnataka experienced moderate growth with fluctuations. Andhra Pradesh showcased mixed results, with both positive and negative growth rates recorded. The average growth rate for the South zone was 1.45%, indicating relatively modest growth overall. The economic performance of these states contributed to the average growth rate of the South zone during the specified period.

North	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Punjab	121.25	-26.35	75.59	-12.24	-30.37
NCT Delhi	-26.02	101.05	-15.93	70.34	9.39
Uttar Pradesh	25.11	-31.61	52.06	171.44	-86.77
Jammu & Kashmir	4.06	7.12	-0.30	-2.05	129.88
Average Growth Rate	31.10	12.55	27.86	56.87	5.53

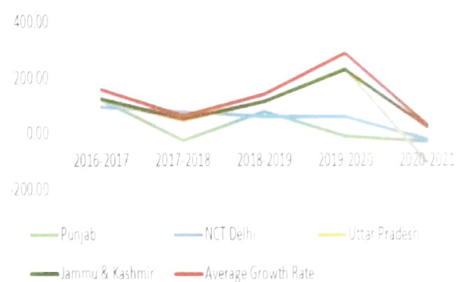


Table 2.6

The author's calculation based on the data taken from RBI

The North zone consists of Punjab, NCT Delhi, Uttar Pradesh, and Jammu & Kashmir. Punjab and NCT Delhi displayed moderate growth rates, while Uttar Pradesh experienced substantial growth initially but slowed down in later years. Jammu & Kashmir had a varied performance with periods of growth and contraction. The average growth rate for the North zone was -0.59%, indicating a marginal decline on average. The economic performance of these states contributed to the overall average growth rate for the North zone during the specified period.

Central	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Madhya Pradesh	6.05	-0.29	46.65	-	-6.14
Chhattisgarh	8.71	11.84	21.50	3.00	7.07
Average Growth Rate	7.38	5.77	34.07	-9.55	0.46

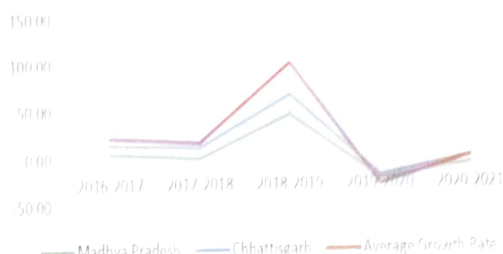


Table 2.7

The author's calculation based on the data taken from RBI

In the Central zone, Madhya Pradesh exhibited positive growth in the early years, followed by a slight decline in the final year. Chhattisgarh, on the other hand, displayed consistent growth throughout the given period. The average growth rate for the Central zone stood at -1.42%, indicating a modest decrease on average. Both states contributed to the overall growth of the Central zone, with their respective growth patterns and average growth rate shaping the zone's economic performance.

West	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
Goa	11.51	11.84	-5.24	-4.73	39.52
Gujarat	30.92	12.95	-	34.93	-
Maharashtra	-5.32	31.25	-5.01	-9.76	5.95
Average growth rate	12.37	18.68	-7.08	6.81	5.07

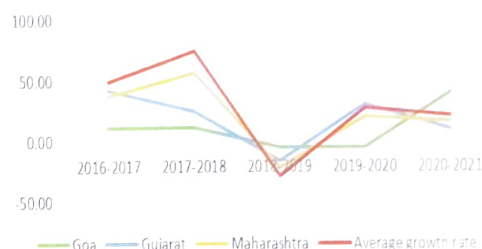


Table 2.8

The author's calculation based on the data taken from RBI

In the Western zone, Goa demonstrated a mix of positive and negative growth rates, indicating fluctuations in its economic performance. Gujarat showed a relatively stable growth pattern with consistent positive growth rates. Maharashtra experienced growth in the initial years but faced slight declines in recent years. On average, the Western zone had a moderate growth rate of 4.36%, reflecting a relatively steady economic trajectory. These states collectively contribute to the overall economic landscape of the Western zone, each with its unique growth patterns and contributions.

In the following table we showed the capital receipts of major eighteen states from the year 2015-16 to 2020-21.

CAPITAL RECEIPTS of Different States (IN LAKHS)

State/Union Territory	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	3,02,74,129.60	4,75,97,812.90	4,58,30,520.60	6,06,51,561.20	7,29,25,531.70	5,83,43,819.70
West Bengal	4,88,90,310.20	4,25,89,006.60	8,68,88,412.70	7,46,72,194.80	7,37,32,559.60	7,94,35,838.30
Odisha	1,79,55,463.70	1,71,98,490.20	3,78,60,913.20	3,66,52,507.50	3,70,48,167.20	4,19,21,286.50
Assam	4,14,79,565.00	2,34,84,353.60	1,84,04,829.30	1,75,16,397.50	1,89,25,445.50	1,66,20,541.70
Arunachal Pradesh	66,51,310.40	43,41,182.70	58,92,065.20	1,18,42,251.60	2,30,55,025.30	1,00,58,088.10
Meghalaya	23,09,825.40	24,33,639.90	36,85,332.80	41,94,932.60	26,75,458.00	22,84,899.00
Tamil Nadu	5,07,07,635.20	3,94,74,150.10	6,15,78,421.00	6,57,01,354.00	6,74,42,101.30	9,44,82,116.60
Karnataka	6,13,74,772.70	3,74,95,242.40	7,89,17,882.00	5,71,74,595.00	8,48,57,354.80	12,05,44,160.10
Andhra Pradesh	3,57,37,420.60	4,11,80,151.90	4,74,79,279.50	4,78,51,483.00	6,16,95,775.10	7,26,01,603.70
Punjab	2,39,73,508.90	2,00,51,410.90	1,01,55,684.60	1,35,66,836.90	1,60,54,952.80	1,73,84,137.10
NCT Delhi	2,32,645.40	3,57,550.30	2,59,676.00	4,52,390.20	5,58,825.30	15,99,648.50
Uttar Pradesh	9,80,81,681.90	5,04,98,529.10	14,94,31,039.60	19,88,99,310.70	19,72,54,025.60	18,95,14,094.70
Jammu & Kashmir	64,19,550.70	25,36,917.00	56,26,028.20	64,51,233.30	6387779	67,59,367.50
Madhya Pradesh	3,67,80,907.00	2,68,01,713.00	6,56,69,735.40	6,72,59,816.70	5,03,57,396.40	7,30,68,599.90
Chhattisgarh	1,06,78,374.60	1,04,29,335.80	1,95,77,896.70	2,09,33,289.80	2,10,37,511.10	2,05,56,836.80
Goa	16,99,516.10	22,33,300.00	22,21,729.60	23,18,864.60	23,80,617.50	24,28,148.50
Gujarat	2,86,83,527.00	1,87,63,665.80	5,28,08,912.30	4,56,09,288.20	4,79,13,087.70	24,28,148.50
Maharashtra	4,57,63,248.20	5,60,48,306.90	7,41,85,514.60	6,97,28,169.30	6,67,59,381.20	5,90,91,029.40

Table 3.1

Data source: RBI

In the following table we tried to show the growth rate of major eighteen states derived from the above table 3.1.

GROWTH RATE of Different States (IN %)

States / Union Territory	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	25.01	-16.83	-24.44	3.86	-36.40
West Bengal	-7.18	-0.08	17.94	-50.98	14.80
Odisha	-15.65	-1.07	3.30	-54.57	4.40
Assam	13.87	-7.45	5.07	27.60	76.63
Arunachal Pradesh	129.22	-48.63	-50.25	-26.32	53.21
Meghalaya	17.09	56.80	-12.15	-33.96	-5.09
Tamil Nadu	-28.62	-2.58	-6.28	-35.90	28.46
Karnataka	-29.60	-32.62	38.03	-52.49	63.69
Andhra Pradesh	-15.02	-22.44	-0.78	-13.27	-13.22
Punjab	-7.65	-15.50	-25.14	97.44	19.56
NCT Delhi	-65.07	-19.05	-42.60	37.69	-34.93
Uttar Pradesh	4.08	0.83	-24.87	-66.21	94.23
Jammu & Kashmir	-5.50	0.99	-12.79	-54.91	153.05
Madhya Pradesh	-31.08	33.56	-2.36	-59.19	37.23
Chhattisgarh	2.34	-0.50	-6.47	-46.73	2.39
Goa	-1.96	-2.59	-4.19	0.52	-23.90
Gujarat	1873.24	-4.81	15.79	-64.47	52.87
Maharashtra	12.98	4.45	6.39	-24.45	-18.35

Table 3.2

The author's calculation taken from the source RBI.

Here we showed the capital expenditure of major eighteen states from the year 2017 -18 to 2020-21 as we were unable to get the data for the year 2015-16 and 2016-17 therefore, we only showed for four years.

CAPITAL EXPENDITURE of Different States (IN LAKHS)

State/Union Territory	2017-18	2018-19	2019-20	2020-21
Bihar	4,73,19,621.40	61330203.8	7,29,52,323.70	5,72,29,937.50
West Bengal	8,59,11,352.30	72630816.5	7,17,67,932.40	7,64,83,129.90
Odisha	3,91,73,774.00	37964724.8	3,74,29,450.20	4,48,50,396.10
Assam	1,82,34,638.90	18248820.2	1,84,38,898.20	1,66,86,546.00
Arunachal Pradesh	61,48,200.30	12199636.5	2,38,23,100.20	1,05,19,757.70
Meghalaya	37,63,899.40	4170301.6	26,54,068.80	21,75,613.40
Tamil Nadu	5,93,96,595.80	63393280.1	6,37,12,898.40	8,83,88,785.40
Karnataka	7,93,07,241.60	88502905.9	8,49,08,969.80	11,86,17,996.30
Andhra Pradesh	4,59,26,498.20	46373514.3	5,90,05,752.80	6,91,02,589.90
Punjab	91,80,867.90	12243687	1,45,94,407.30	1,56,69,003.80
NCT Delhi	7,17,283.40	939431.5	11,54,923.70	12,05,442.20
Uttar Pradesh	15,05,31,647.00	201733677.3	20,40,03,544.90	18,92,87,276.30
Jammu & Kashmir	63,72,967.90	5956658.2	62,49,198.30	67,49,000.10
Madhya Pradesh	6,61,96,731.50	48190046.1	5,01,73,277.80	7,11,34,871.10
Chhattisgarh	1,98,89,911.20	21033409.1	2,02,18,220.30	1,98,73,838.60
Goa	22,60,794.80	2354564.2	23,41,521.70	23,64,072.50
Gujarat	5,33,20,844.30	45894939.4	4,81,06,055.00	4,98,76,491.70
Maharashtra	7,44,59,505.50	70831441	6,47,88,561.80	5,56,77,124.80

Table 4.1

Data source: RBI

In the following we tried to show the growth rate of major eighteen states derived from the above table 4.1.

GROWTH RATE of Different States (IN %)

State/Union Territory	2018-19	2019-20	2020-21
Bihar	29.6084	18.95008	-21.5516
West Bengal	-15.4584	-1.18804	6.570062
Odisha	-3.08637	-1.40993	19.82649
Assam	0.077771	1.041591	-9.50356
Arunachal Pradesh	98.42614	95.27713	-55.8422
Meghalaya	10.79737	-36.3579	-18.0272
Tamil Nadu	6.72881	0.504183	38.72981
Karnataka	11.59499	-4.06081	39.70019
Andhra Pradesh	0.973329	27.2402	17.11161
Punjab	33.36089	19.19945	7.363071
NCT Delhi	30.97076	22.93858	4.374185
Uttar Pradesh	34.01413	1.12518	-7.21373
Jammu & Kashmir	-6.53243	4.911145	7.997855
Madhya Pradesh	-27.2018	4.115438	41.7784
Chhattisgarh	5.749135	-3.87569	-1.70332
Goa	4.14763	-0.55392	0.963083
Gujarat	-13.9268	4.817776	3.680278
Maharashtra	-4.87253	-8.53135	-14.0633

Table 4.2

The author's calculation from the data taken from RBI

The following table shows the revenue receipts of major eighteen states from the year 2015-16 to 2020-21.

REVENUE RECEIPTS of Different States (IN LAKHS)

States / Union Territory	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	96,12,310.00	1,24,59,024	1,17,44,673.70	1,31,79,345.40	1,24,23,253.50	12816834.5
West Bengal	1,09,73,220.00	1,29,53,033.00	1,31,27,038.60	1,45,97,524.80	1,42,91,421.10	14839396.5
Odisha	68,94,144.00	78,12,671.00	85,20,429.30	99,54,611.60	1,01,56,774.60	10438724.3
Assam	42,45,771.00	66,17,988.00	54,13,093.80	63,47,915.70	64,49,508.50	6589619.1
Arunachal Pradesh	10,55,314.00	1,27,74,160.00	13,77,460.30	16,19,595.90	14,88,855.30	1712350.6
Meghalaya	7,04,313.00	8,98,085.00	9,27,348.10	9,71,862.20	9,41,352.90	1068323.9
Tamil Nadu	1,29,00,787.00	1,48,17,509.00	1,46,27,974.90	1,73,74,115.70	1,74,52,590.60	17407629.6
Karnataka	1,18,81,731.00	1,30,75,808.00	1,46,99,964.80	1,64,97,865.90	1,75,44,279.50	15671640.6
Andhra Pradesh	88,64,780.00	1,09,29,985.00	1,05,06,209.60	1,14,67,085.70	1,11,03,401.70	11713617.6
Punjab	41,52,338.00	50,18,096.00	53,00,958.10	62,26,908.40	61,57,474.80	6904818.2
NCT Delhi	18,32,88,496.00	41,39,099.00	38,66,727.10	43,11,260.50	39,63,701.80	4186359.8
Uttar Pradesh	2,27,07,594.00	2,81,55,544.00	2,78,77,545.10	3,29,97,751.00	3,66,39,318.20	29617633.2
Jammu & Kashmir	35,78,061.00	50,46,034.00	48,51,165.40	51,23,071.30	52,60,931.90	5249548.4
Madhya Pradesh	1,05,51,059.00	1,26,09,514.00	1,34,87,538.90	1,50,39,177.80	1,47,64,335.10	14637678.4
Chhattisgarh	46,06,771.00	61,42,667.00	59,64,707.50	65,09,492.60	63,86,869.50	6317617.9
Goa	8,55,225.00	10,64,196.00	11,05,352.50	11,43,798.90	11,35,688.20	1140497.2
Gujarat	97,48,257.00	1,16,36,598.00	1,23,29,127.50	1,36,00,155.00	1,42,84,375.80	12815565.6
Maharashtra	1,85,03,568.00	2,20,81,005.00	2,43,65,356.00	2,78,99,627.30	2,83,18,957.70	26946791.4

Table 5.1

Data source: RBI

In the following we tried to show the growth rate of major eighteen states derived from the above table 5.1.

GROWTH RATE of Different States (IN %)

States / Union Territory	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	29.62	-5.73	12.22	5.73695	3.168099
West Bengal	18.04	1.34	11.20	-2.09696	3.834296
Odisha	13.32	9.06	16.83	2.030848	2.775977
Assam	55.87	-18.21	17.27	1.600412	2.172423
Arunachal Pradesh	10.46	-8.22	17.58	-8.07242	15.01122
Meghalaya	27.51	3.26	4.80	-3.13926	13.48814
Tamil Nadu	14.86	-1.28	18.77	0.451677	-0.25762
Karnataka	10.05	12.42	12.23	6.342721	-10.6738
Andhra Pradesh	23.30	-3.88	9.15	-3.17155	5.495756
Punjab	20.85	5.64	17.47	-1.11506	12.13717
NCT Delhi	-97.74	-6.58	11.50	-8.06165	5.617426
Uttar Pradesh	23.99	-0.99	18.37	11.0358	-19.1643
Jammu & Kashmir	41.03	-3.86	5.60	2.690976	-0.21638
Madhya Pradesh	19.51	6.96	11.50	-1.82751	-0.85786
Chhattisgarh	33.34	-2.90	9.13	-1.88376	-1.08428
Goa	24.43	3.87	3.48	-0.7091	0.423444
Gujarat	19.37	5.95	10.31	5.030978	-10.2826
Maharashtra	19.33	10.35	14.51	1.502996	-4.8454

Table 5.2

The author's calculation from the data taken from RBI

In the following we tried to show the growth rate of major eighteen states derived from the above table 5.1.

GROWTH RATE of Different States (IN %)

States / Union Territory	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	29.62	5.73	12.22	5.73695	3.168099
West Bengal	18.04	1.34	11.20	-2.09696	3.834296
Odisha	13.32	9.06	16.83	2.030848	2.775977
Assam	55.87	-18.21	17.27	1.600412	2.172423
Arunachal Pradesh	10.46	8.22	17.58	-8.07242	15.01122
Meghalaya	27.51	3.26	4.80	-3.13926	13.48814
Tamil Nadu	14.86	-1.28	18.77	0.451677	-0.25762
Karnataka	10.05	12.42	12.23	6.342721	-10.6738
Andhra Pradesh	23.30	-3.88	9.15	-3.17155	5.495756
Punjab	20.85	5.64	17.47	-1.11506	12.13717
NCT Delhi	-97.74	-6.58	11.50	-8.06165	5.617426
Uttar Pradesh	23.99	-0.99	18.37	11.0358	-19.1643
Jammu & Kashmir	41.03	-3.86	5.60	2.690976	-0.21638
Madhya Pradesh	19.51	6.96	11.50	-1.82751	-0.85786
Chhattisgarh	33.34	-2.90	9.13	-1.88376	-1.08428
Goa	24.43	3.87	3.48	-0.7091	0.423444
Gujarat	19.37	5.95	10.31	5.030978	-10.2826
Maharashtra	19.33	10.35	14.51	1.502996	-4.8454

Table 5.2

The author's calculation from the data taken from RBI

Here we showed the revenue expenditure for eighteen from 2017-18 to 2020-21 as we were unable to get the data for the year 2015-16 and 2016-17 therefore, we only showed for four years.

REVENUE EXPENDITURE of Different States (IN LAKHS)

States / Union Territory	2017-18	2018-19	2019-20	2020-21
Bihar	1,02,62,372.70	1,24,89,680.50	1,23,53,366.20	1,39,49,344.70
West Bengal	1,41,07,736.30	1,56,37,390.70	1,62,57,511.70	1,77,92,128.40
Odisha	71,83,730.50	85,35,640.60	99,13,730.00	95,31,084.70
Assam	55,48,094.50	56,89,899.60	65,81,727.70	64,51,958.80
Arunachal Pradesh	10,90,046.90	12,42,947.60	12,21,873.00	13,08,750.00
Meghalaya	8,42,268.10	10,25,594.10	9,56,512.20	11,49,861.20
Tamil Nadu	1,67,87,363.40	1,97,20,060.00	2,10,43,472.30	2,36,40,218.00
Karnataka	1,42,48,233.00	1,64,29,985.20	1,74,25,740.30	1,76,05,391.00
Andhra Pradesh	1,21,21,377.60	1,28,56,945.30	1,37,47,453.90	1,52,67,663.70
Punjab	62,46,485.40	75,40,370.70	75,85,963.70	86,34,461.60
NCT Delhi	33,75,402.20	36,85,157.30	39,63,701.80	40,41,361.60
Uttar Pradesh	2,66,22,351.80	3,01,72,795.60	2,98,83,304.40	2,98,54,345.90
Jammu & Kashmir	40,91,649.50	56,08,998.00	52,96,341.30	52,63,375.50
Madhya Pradesh	1,30,24,608.80	1,41,57,720.70	1,50,44,429.90	1,64,73,300.60
Chhattisgarh	56,22,975.10	64,41,117.40	73,47,731.30	70,03,284.40
Goa	10,54,289.50	11,08,284.80	11,57,563.40	12,06,966.80
Gujarat	1,18,05,966.00	1,32,78,958.00	1,40,89,891.40	1,50,70,358.00
Maharashtra	2,41,57,106.60	2,67,02,165.90	3,00,30,522.00	3,10,60,975.70

Table 6.1

Data source: RBI

In the following we tried to show the growth rate of major eighteen states derived from the above table 6.1.

GROWTH RATE of Different States (IN%)

States / Union Territory	2018-19	2019-20	2020-21
Bihar			
West Bengal	21.70	-1.09	12.92
Odisha	10.84	3.97	9.44
Assam	18.82	16.15	-3.86
Arunachal Pradesh	2.56	15.67	-1.97
	14.03	-1.70	7.11
Meghalaya			
Tamil Nadu	21.77	-6.74	20.21
Karnataka	17.47	6.71	12.34
Andhra Pradesh	15.31	6.06	1.03
Punjab	6.07	6.93	11.06
NCT Delhi	20.71	0.60	13.82
Uttar Pradesh	9.18	7.56	1.96
Jammu & Kashmir	13.34	-0.96	-0.10
Madhya Pradesh	37.08	-5.57	-0.62
Chhattisgarh	8.70	6.26	9.50
	14.55	14.08	-4.69
Goa			
Gujarat	5.12	4.45	4.27
Maharashtra	12.48	6.11	6.96
Table 6.2	10.54	12.46	3.43

The author's calculation from the data taken from RBI

Here we tried to show the capital and revenue receipt for six major states from eighteen states from 2016-2017 to 2020-21 taken from table 3.2 and 5.2 and gave a vivid knowledge about the performance of these eighteen states.

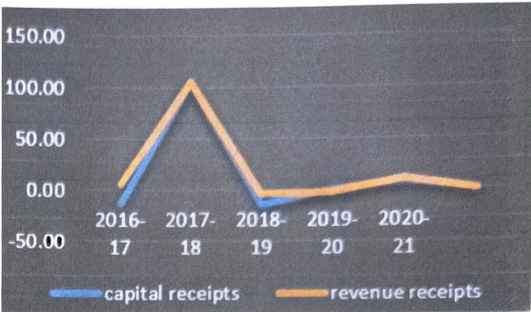
Comparison between revenue receipt and capital receipts growth rate (in %) of six major states

West Bengal	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	-12.89	104.02	15.21	0.08	7.74
revenue receipts	18.04	1.34	11.20	-2.10	3.83

Table 7.1

The author’s calculation based on data taken from RBI

In the fiscal years 2016-17 to 2020-21, West Bengal experienced fluctuations in its capital and revenue receipts. The capital receipts varied from -12.89 units to 104.02 units, indicating both negative and positive inflows of capital. On the other hand, revenue receipts ranged from -2.10 units to 18.04 units, reflecting fluctuations in the state's revenue generation. These variations in receipts could be attributed to factors such as borrowing activities, economic conditions, and changes in revenue policies during the respective years.

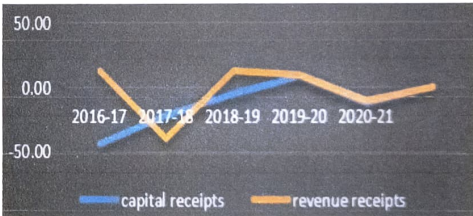


Assam	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	-43.38	-21.63	-4.83	8.04	-12.18
revenue receipts	55.87	-18.21	17.27	1.60	2.17

Table 7.2

The author’s calculation based on data taken from RBI

In the fiscal years 2016-17 to 2020-21, Assam's capital receipts exhibited a fluctuating trend. The capital receipts ranged from -43.38 units to 8.04 units, indicating a mix of negative and positive inflows of capital. The negative values suggest higher capital outflows or repayments, while the positive values indicate capital inflows.

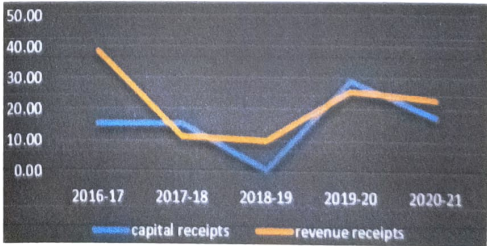


Andhra Pradesh	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	15.23	15.30	0.78	28.93	17.68
revenue receipts	23.30	-3.88	9.15	-3.17	5.50

Table 7.3

The author’s calculation based on data taken from RBI

In Andhra Pradesh, capital receipts remained relatively stable, ranging from 0.78 units to 28.93 units, indicating consistent inflows of capital for infrastructure and investment projects. Revenue receipts experienced fluctuations, ranging from -3.88 units to 23.30 units, reflecting variations in the state's revenue generation. These fluctuations can be influenced by factors such as economic conditions, tax policies, and revenue collection efforts. Effective



management of both capital and revenue receipts is crucial for fiscal stability and sustainable development in Andhra Pradesh.

NCT Delhi	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	53.69	-27.37	74.21	23.53	186.25
revenue receipts	-97.74	-6.58	11.50	-8.06	5.62

Table 7.4

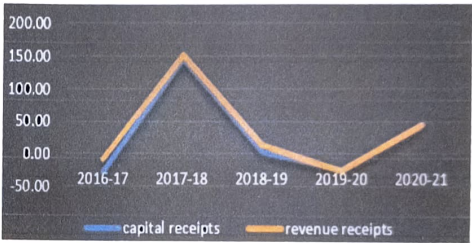


The author's calculation based on data taken from RBI

NCT Delhi witnessed significant fluctuations in capital receipts, ranging from -27.37 units to 186.25 units, representing a mix of negative and positive inflows for infrastructure and investment purposes. Likewise, revenue receipts showed variations, spanning from -97.74 units to 11.50 units, reflecting fluctuations in the state's revenue generation. These fluctuations can be attributed to factors like economic conditions, tax policies, and revenue collection efforts. Effective management of both capital and revenue receipts is essential to maintain financial stability and facilitate the development goals of NCT Delhi.

Madhya Pradesh	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	-27.13	145.02	2.42	-25.13	45.10
revenue receipts	19.51	6.96	11.50	-1.83	-0.86

Table 7.5

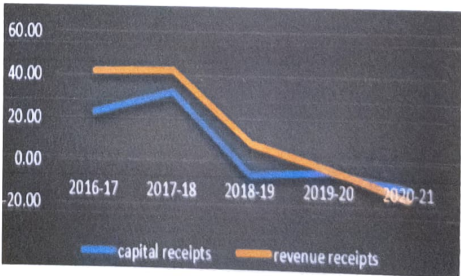


The author's calculation based on data taken from RBI

Madhya Pradesh's capital receipts exhibited significant fluctuations over the given years, ranging from -27.13 units to 145.02 units. This suggests a mix of negative and positive inflows of capital, potentially through loans, investments, and disinvestments. Similarly, the revenue receipts showed variations, ranging from -1.83 units to 19.51 units. These fluctuations indicate changes in revenue generation, influenced by factors such as economic conditions, tax policies, and revenue collection efforts.

Maharashtra	2016-17	2017-18	2018-19	2019-20	2020-21
capital receipts	22.47	32.36	-6.01	-4.26	-11.49
revenue receipts	19.33	10.35	14.51	1.50	-4.85

Table 7.6



The author's calculation based on data taken from RBI

Maharashtra's capital receipts exhibited varying trends over the given years, ranging from 22.47 units to -11.49 units. These fluctuations indicate the inflows and outflows of capital, potentially through investments, loans, and disinvestments. Similarly, the revenue receipts showed variations, ranging from -4.85 units to 19.33 units. These fluctuations reflect changes in revenue generation, influenced by factors such as economic conditions, tax policies, and revenue collection efforts.

Here we tried to explain the comparison between capital and revenue expenditure of six major states from eighteen states from 2018-19 to 2020-21 derived from table 4.2 and 6.2.

**Comparison between revenue receipt and capital expenditure growth rate
(in %) of six major States**

West Bengal	2018-19	2019-20	2020-21
capital expenditure	6.57	-1.19	-15.46
revenue expenditure	10.84	3.97	9.44

Table 8.1

The author’s calculation based on data taken from RBI

In West Bengal, the capital expenditure witnessed fluctuations over the given years, ranging from -15.46 units to 6.57 units. This signifies the investments made by the state in long-term assets such as infrastructure development, machinery, and capital projects. On the other hand, the revenue expenditure also varied, ranging from 3.97 units to 10.84 units, representing the day-to-day operational expenses of the state government, including salaries, maintenance costs, and administrative expenses.

Assam	2018-19	2019-20	2020-21
capital expenditure	0.08	1.04	-9.50
revenue expenditure	2.56	15.67	-1.97

Table 8.2

The author’s calculation based on data taken from RBI

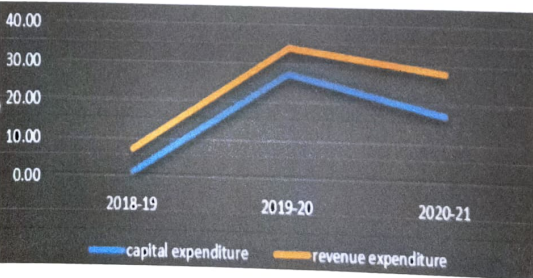
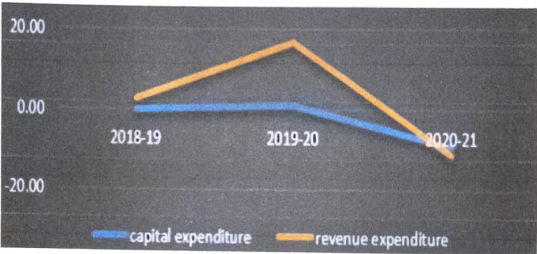
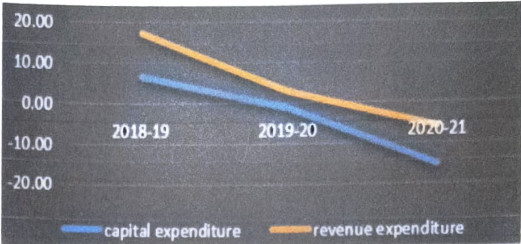
In Assam, the capital expenditure showed fluctuations over the given years, ranging from -9.50 units to 1.04 units. These values represent the investments made by the state in long-term assets such as infrastructure development, capital projects, and machinery. On the other hand, the revenue expenditure exhibited variations, ranging from -1.97 units to 15.67 units. This reflects the day-to-day operational expenses of the state government, including salaries, maintenance costs, and administrative expenditures.

Andhra Pradesh	2018-19	2019-20	2020-21
capital expenditure	0.97	27.24	17.11
revenue expenditure	6.07	6.93	11.06

Table 8.3

The author’s calculation based on data taken from RBI

In Andhra Pradesh, the capital expenditure exhibited an increasing trend over the given years, ranging from 0.97 units to 27.24 units. These values represent the investments made by the state in long-term assets such as infrastructure development, capital projects, and machinery. On the other hand, the revenue expenditure showed a moderate increase, ranging from 6.07

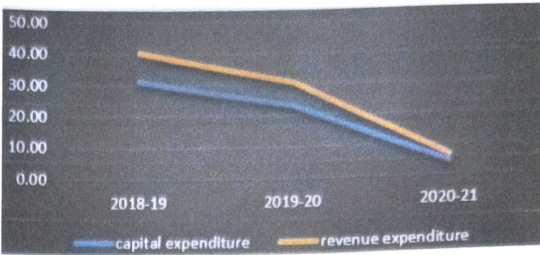


units to 11.06 units. This reflects the day-to-day operational expenses of the state government, including salaries, maintenance costs, and administrative expenditures.

NCT Delhi	2018-19	2019-20	2020-21
capital expenditure	30.97	22.94	4.37
revenue expenditure	9.18	7.56	1.96

Table 8.4

The author's calculation based on data taken from RBI

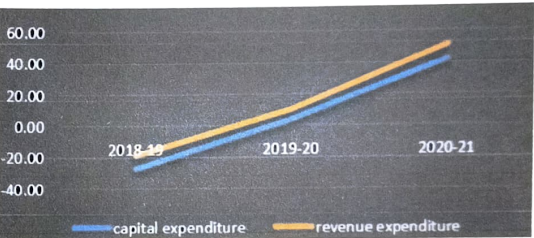


In NCT Delhi, the capital expenditure exhibited a fluctuating trend over the given years, ranging from 4.37 units to 30.97 units. These values represent the investments made by the government in long-term assets such as infrastructure development, capital projects, and public facilities. On the other hand, the revenue expenditure showed a decreasing trend, ranging from 1.96 units to 9.18 units. This reflects the day-to-day operational expenses of the government, including salaries, maintenance costs, and administrative expenditures.

Madhya Pradesh	2018-19	2019-20	2020-21
capital expenditure	-27.20	4.12	41.78
revenue expenditure	8.70	6.26	9.50

Table 8.5

The author's calculation based on data taken from RBI

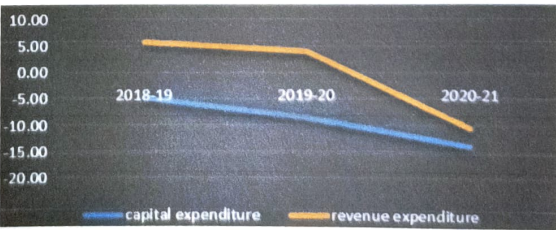


In Madhya Pradesh, the capital expenditure experienced significant variations over the given years, ranging from -27.20 units to 41.78 units. These values represent the investments made by the state government in long-term assets such as infrastructure development, capital projects, and public facilities. On the other hand, the revenue expenditure showed a relatively stable trend, ranging from 6.26 units to 9.50 units. This reflects the day-to-day operational expenses of the government, including salaries, maintenance costs, and administrative expenditures.

Maharashtra	2018-19	2019-20	2020-21
capital expenditure	-4.87	-8.53	-14.06
revenue expenditure	10.54	12.46	3.43

Table 8.6

The author's calculation based on data taken from RBI



In Maharashtra, the capital expenditure witnessed negative values and fluctuations over the given years, ranging from -14.06 units to -4.87 units. These values indicate the investments made by the state government in long-term assets such as infrastructure development, capital projects, and public facilities. On the other hand, the revenue expenditure exhibited a relatively stable trend, ranging from 3.43 units to 12.46 units. This reflects the day-to-day operational

expenses of the government, including salaries, maintenance costs, and administrative expenditures.

Now we come to the next concept where we show the revenue of major eighteen states from the year 2015-16 to 2020-21. Here, deficit is denoted by (+) and surplus is denoted by (-).

Revenue Deficit/Surplus of Different States (IN LAKHS)						
State/Union Territory	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	-12,510.00	-8240	-14,823.00	-6,896.60	6890	11,325.10
West Bengal	9,100.00	9470	9,807.00	10,398.70	19,660.90	29,527.30
Odisha	-10,140.00	-7240	-13,367.00	-14,189.70	-2,430.40	9,076.40
Assam	-5,450.00	6670	1,350.00	-6,580.20	1,322.20	1,376.60
Arunachal Pradesh	-2,190.00	-2340	-2,874.10	-3,766.50	-2,669.80	4,036.00
Meghalaya	-700	-3900	-850.8	537.3	151.6	815.4
Tamil Nadu	11,990.00	15460	21,593.90	23,459.40	35,908.80	62,325.90
Karnataka	-1,790.00	-1060	-4,517.30	-6788	11,854.00	19,337.50
Andhra Pradesh	7,300.00	4600	16,151.70	13,898.60	26,440.50	35,540.50
Punjab	8,550.00	11360	9,455.30	13,134.60	14,284.90	17,296.40
NCT Delhi	-8,660.00	-4850	-4,913.20	-6,261.00	-7,498.80	1,450.00
Uttar Pradesh	-14,330.00	-24510	-12,551.90	-28,249.60	-67,560.10	2,367.10
Jammu & Kashmir	6400	-8140	-7,595.20	4,859.30	354.10	138.3
Madhya Pradesh	-5,740.00	-1530	-4,629.30	-8,814.60	28,009.00	18,356.20
Chhattisgarh	-2,370.00	-4820	-3,417.30	-6388	9,608.60	6,856.70
Goa	-130	-500	-510.6	-355.1	218.8	664.7
Gujarat	-1,700.00	-3510	-5,231.60	-3,212.00	19,448.00	22,547.90
Maharashtra	5,340.00	14380	-2,082.50	-11,974.60	17,156.00	41,141.80

Table 9.1

Data source: RBI

Revenue Deficit as a percentage of GSDP

Here we have taken six major states: West Bengal, Assam, Andhra Pradesh, NCT Delhi, Madhya Pradesh and Maharashtra

State/Union Territory	2017-2018	2018-2019	2019-2020	2020-2021
West Bengal	0.014	0.014	0.025	0.037
Assam	0.006	-0.028	0.005	0.006
Andhra Pradesh	0.027	0.022	0.039	0.053
NCT Delhi	-0.009	-0.011	-0.013	0.003
Madhya Pradesh	-0.009	-0.016	0.049	0.033
Maharashtra	-0.001	-0.006	0.008	0.022

Table 9.2

The author's calculation from the data taken from RBI

Here we take the rank of major states for the year 2019 -20 and 2020 -21 and we calculate the rank correlation. We tried to vivid information about performance of the states in Revenue

Ranks of different States in terms of Revenue deficit/surplus

State/Union Territory	2019-20	Rank (d1)	2020-21	Rank (d2)	D=d1- d2	d^2
Bihar	6890	9	11,325.10	10	-1.00	1
West Bengal	19,660.90	15	29,527.30	15	0.00	0
Odisha	-2,430.40	4	9,076.40	9	-5.00	25
Assam	1,322.20	8	1,376.60	4	4.00	16
Arunachal Pradesh	-2,669.80	3	4,036.00	7	-4.00	16
Meghalaya	151.6	5	815.4	3	2.00	4
Tamil Nadu	35,908.80	18	62,325.90	18	0.00	0
Karnataka	11,854.00	11	19,337.50	13	-2.00	4
Andhra Pradesh	26,440.50	16	35,540.50	16	0.00	0
Punjab	14,284.90	12	17,296.40	11	1.00	1
NCT Delhi	-7,498.80	2	1,450.00	5	-3.00	9
Uttar Pradesh	-67,560.10	1	2,367.10	6	-5.00	25
Jammu & Kashmir	354.10	7	138.3	1	6.00	36
Madhya Pradesh	28,009.00	17	18,356.20	12	5.00	25
Chhattisgarh	9,608.60	10	6,856.70	8	2.00	4
Goa	218.8	6	664.7	2	4.00	16
Gujarat	19,448.00	14	22,547.90	14	0.00	0
Maharashtra	17,156.00	13	41,141.80	17	-4.00	16

Table 9.3

Surplus is denoted by (-) and

Surplus/ deficit = Capital Expenditure – Income

Deficit is denoted by (+)

Rank Correlation

$$\rho = 1 - \frac{6\sum d_i^2}{n(n^2 - 1)}$$

$$\rho = 0.80$$

Bihar: 2019-20 Revenue Deficit/Surplus: 6,890 (Rank: 9) 2020-21 Revenue Deficit/Surplus: 11,325.10 (Rank: 10) The difference between the two ranks is -1, indicating a decrease in rank from the previous year. The difference squared is 1.

West Bengal: 2019-20 Revenue Deficit/Surplus: 19,660.90 (Rank: 15) 2020-21 Revenue Deficit/Surplus: 29,527.30 (Rank: 15) The ranks remain the same in both years. The difference squared is 0.

Odisha: 2019-20 Revenue Deficit/Surplus: -2,430.40 (Rank: 4) 2020-21 Revenue Deficit/Surplus: 9,076.40 (Rank: 9) The difference between the two ranks is -5, indicating a decrease in rank from the previous year. The difference squared is 25.

Assam: 2019-20 Revenue Deficit/Surplus: 1,322.20 (Rank: 8) 2020-21 Revenue Deficit/Surplus: 1,376.60 (Rank: 4) The difference between the two ranks is 4, indicating an increase in rank from the previous year. The difference squared is 16.

Arunachal Pradesh: 2019-20 Revenue Deficit/Surplus: -2,669.80 (Rank: 3) 2020-21 Revenue Deficit/Surplus: 4,036.00 (Rank: 7) The difference between the two ranks is -4, indicating a decrease in rank from the previous year. The difference squared is 16.

Meghalaya: 2019-20 Revenue Deficit/Surplus: 151.6 (Rank: 5) 2020-21 Revenue Deficit/Surplus: 815.4 (Rank: 3) The difference between the two ranks is 2, indicating an increase in rank from the previous year. The difference squared is 4.

Tamil Nadu: 2019-20 Revenue Deficit/Surplus: 35,908.80 (Rank: 18) 2020-21 Revenue Deficit/Surplus: 62,325.90 (Rank: 18) The ranks remain the same in both years. The difference squared is 0.

Karnataka: 2019-20 Revenue Deficit/Surplus: 11,854.00 (Rank: 11) 2020-21 Revenue Deficit/Surplus: 19,337.50 (Rank: 13) The difference between the two ranks is -2, indicating a decrease in rank from the previous year. The difference squared is 4.

Andhra Pradesh: 2019-20 Revenue Deficit/Surplus: 26,440.50 (Rank: 16) 2020-21 Revenue Deficit/Surplus: 35,540.50 (Rank: 16) The ranks remain the same in both years. The difference squared is 0.

Punjab: 2019-20 Revenue Deficit/Surplus: 14,284.90 (Rank: 12) 2020-21 Revenue Deficit/Surplus: 17,296.40 (Rank: 11) The difference between the two ranks is 1, indicating an increase in rank from the previous year. The difference squared is 1.

NCT Delhi: 2019-20 Revenue Deficit/Surplus: -7,498.80 (Rank: 2) 2020-21 Revenue Deficit/Surplus: 1,450.00 (Rank: 5) The difference between the two ranks is -3, indicating a decrease in rank from the previous year. The difference squared is 9.

Uttar Pradesh: 2019-20 Revenue Deficit/Surplus: -67,560.10 (Rank: 1) 2020-21 Revenue Deficit/Surplus: 2,367.10 (Rank: 6) The difference between the two ranks is -5, indicating a decrease in rank from the previous year. The difference squared is 25.

Jammu & Kashmir: 2019-20 Revenue Deficit/Surplus: 354.10 (Rank: 7) 2020-21 Revenue Deficit/Surplus: 138.3 (Rank: 1) The difference between the two ranks is 6, indicating an increase in rank from the previous year. The difference squared is 36.

Madhya Pradesh: 2019-20 Revenue Deficit/Surplus: 28,009.00 (Rank: 17) 2020-21 Revenue Deficit/Surplus: 18,356.20 (Rank: 12) The difference between the two ranks is 5, indicating an increase in rank from the previous year. The difference squared is 25.

Chhattisgarh: 2019-20 Revenue Deficit/Surplus: 9,608.60 (Rank: 10) 2020-21 Revenue Deficit/Surplus: 6,856.70 (Rank: 8) The difference between the two ranks is 2, indicating an increase in rank from the previous year. The difference squared is 4.

Goa: 2019-20 Revenue Deficit/Surplus: 218.8 (Rank: 6) 2020-21 Revenue Deficit/Surplus: 664.7 (Rank: 2) The difference between the two ranks is 4, indicating a decrease in rank from the previous year. The difference squared is 16.

Gujarat: 2019-20 Revenue Deficit/Surplus: 19,448.00 (Rank: 14) 2020-21 Revenue Deficit/Surplus: 22,547.90 (Rank: 14) The ranks remain the same in both years. The difference squared is 0.

Maharashtra: 2019-20 Revenue Deficit/Surplus: 17,156.00 (Rank: 13) 2020-21 Revenue Deficit/Surplus: 41,141.80 (Rank: 17) The difference between the two ranks is -4

Here we show the gross fiscal of major eighteen states where deficit is denoted by (-) and surplus is denoted by (+) from the year 2015 -16 to 2020 -21

Gross Fiscal Deficit / Surplus of Different States (in Lakhs)

State/Union Territory	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Bihar	12060	22510	14,304.80	14,560.20	12,240.90	29,827.20
West Bengal	28090	25340	28,930.90	33,485.60	36,831.10	44,687.60
Odisha	7600	12140	9,359.50	10,157.40	18,819.00	9,785.50
Assam	3019	1862	9,292.20	4,779.10	14,815.80	11,108.00
Arunachal Pradesh	-1900	900	3134	1,976.00	1,032.20	1,086.20
Meghalaya	550	990	1327	2,026.10	1,103.80	2,603.50
Tamil Nadu	26445	61340	39,839.50	47,334.90	60,178.60	93,983.10
Karnataka	28170	24150	31,101.00	38,442.00	38,165.60	67,097.60
Andhra Pradesh	21860	19060	32,372.60	35,440.90	39,683.70	1,086.20
Punjab	17360	19450	12,494.20	16,059.20	16,825.80	22,584.10
NCT Delhi	-1134	2460	-1098	-2,237.00	4160.7	6,707.80
Uttar Pradesh	26941	55020	27,809.60	35,203.10	-11,082.70	54,622.10
Jammu & Kashmir	8060	8700	2,778.10	13,207.90	10,246.20	10,668.40
Madhya Pradesh	14060	29900	22,745.20	21,616.40	32,970.10	49,869.50
Chhattisgarh	5440	7610	6,810.50	8,292.60	17,969.60	15,821.70
Goa	1480	2980	1,610.20	1,802.70	1,887.90	2,730.10
Gujarat	23020	20220	21,366.40	26,365.00	16,753.60	40,438.30
Maharashtra	28360	50320	23,961.00	23,015.30	53,886.20	71,558.00

Table 10.1

Data source: RBI

Fiscal Deficit as a percentage of GSDP

Here we have taken six major states: West Bengal, Assam, Andhra Pradesh, NCT Delhi, Madhya Pradesh and Maharashtra

State/Union Territory	2017-2018	2018-2019	2019-2020	2020-2021
West Bengal	0.042	0.045	0.047	0.056
Assam	0.042	0.021	0.062	0.049
Andhra Pradesh	0.054	0.057	0.059	0.002
NCT Delhi	-0.002	-0.004	0.007	0.012
Madhya Pradesh	0.046	0.040	0.057	0.088
Maharashtra	0.013	0.012	0.026	0.038

Table 10.2

The author's calculation taken from RBI

Here we take the rank of major states for the year 2019 -20 and 2020 -21 and we calculate the rank correlation . we tried to vivid information about performance of the states in Fiscal.

Ranks of Different States in terms of Fiscal deficit/surplus

State/Union Territory	2019-20	Rank (d1)	2020-21	Rank (d2)	D=d1- d2	d^2
Bihar	12,240.90	7	29,827.20	10	-3	9
West Bengal	36,831.10	14	44,687.60	12	2	4
Odisha	18,819.00	12	9,785.50	5	7	49
Assam	14,815.80	8	11,108.00	7	1	1
Arunachal Pradesh	1,032.20	2	1,086.20	1	1	1
Meghalaya	1,103.80	3	2,603.50	2	1	1
Tamil Nadu	60,178.60	18	93,983.10	18	0	0
Karnataka	38,165.60	15	67,097.60	16	-1	1
Andhra Pradesh	39,683.70	16	55,167.40	15	1	1
Punjab	16,825.80	10	22,584.10	9	1	1
NCT Delhi	4160.7	5	6,707.80	4	1	1
Uttar Pradesh	-11,082.70	1	54,622.10	14	-13	169
Jammu & Kashmir	10,246.20	6	10,668.40	6	0	0
Madhya Pradesh	32,970.10	13	49,869.50	13	0	0
Chhattisgarh	17,969.60	11	15,821.70	8	3	9
Goa	1,887.90	4	2,730.10	3	1	1
Gujarat	16,753.60	9	40,438.30	11	-2	4
Maharashtra	53,886.20	17	71,558.00	17	0	0

Table 10.3

Surplus / Deficit = capital expenditure – Income

Surplus is denoted by (-) and

Deficit is denoted by (+)

Rank Correlation

$$\rho = 1 - \frac{6 \sum d_i^2}{n(n^2 - 1)}$$

$$\rho = 0.73$$

Uttar Pradesh: Uttar Pradesh was ranked first in 2019-20 but dropped significantly to rank 14 in 2020-21. The negative difference in ranks (-13) indicates a significant decline in its performance.

Arunachal Pradesh: Arunachal Pradesh maintained its rank at 2 in both 2019-20 and 2020-21, indicating a consistent performance during this period.

Meghalaya: Meghalaya also maintained its rank at 3 in both years, suggesting a stable performance.

NCT Delhi: Delhi improved its performance from rank 5 in 2019-20 to rank 4 in 2020-21, indicating a positive change.

Jammu & Kashmir: Jammu & Kashmir retained its rank at 6 in both years, signifying a consistent performance.

Bihar: Bihar was ranked 7th in 2019-20 but dropped to rank 10 in 2020-21, indicating a decline in performance. The negative difference in ranks (-3) reflects this decline.

Chhattisgarh: Chhattisgarh maintained its rank at 8 in both years, suggesting a stable performance.

Punjab: Punjab also maintained its rank at 9 in both years, indicating a consistent performance.

Gujarat: Gujarat dropped from rank 10 in 2019-20 to rank 11 in 2020-21, showing a slight decline in performance. The negative difference in ranks (-2) represents this change.

Odisha: Odisha experienced a significant decline in performance, moving from rank 12 in 2019-20 to rank 5 in 2020-21. The positive difference in ranks (7) indicates this decline.

Madhya Pradesh: Madhya Pradesh retained its rank at 13 in both years, signifying a consistent performance.

West Bengal: West Bengal improved its performance from rank 14 in 2019-20 to rank 12 in 2020-21, indicating a positive change.

Assam: Assam was ranked 15th in 2019-20 but improved to rank 7 in 2020-21, showing a positive change. The difference in ranks (1) reflects this improvement.

Andhra Pradesh: Andhra Pradesh improved its performance from rank 16 in 2019-20 to rank 15 in 2020-21, indicating a positive change. The difference in ranks (1) represents this improvement.

Maharashtra: Maharashtra maintained its rank at 17 in both years, suggesting a consistent performance.

Tamil Nadu: Tamil Nadu also maintained its rank at 18 in both years, indicating a consistent performance.

Karnataka: Karnataka dropped from rank 15 in 2019-20 to rank 16 in 2020-21, indicating a slight decline in performance. The negative difference in ranks (-1) reflects this change.

Goa: Goa improved its performance from rank 4 in 2019-20 to rank 3 in 2020-21, indicating a positive change. The difference in ranks (1) represents this improvement.

In this table we tried to show the comparison between the rank in revenue and fiscal for the year 2020-21 and showed the performance of different states. We also mentioned the rank correlation. The ranks has been taken from the above table 9.3 and 10.3

Comparison of rank(s) between Revenue and Fiscal deficit

State/Union Territory	for the year 2020 -21	
	Rank in Revenue deficit	Rank in Fiscal deficit
Bihar		
West Bengal	10	10
Odisha	15	12
Assam	9	5
Arunachal Pradesh	4	7
Meghalaya	7	1
Tamil Nadu	3	2
Karnataka	18	18
Andhra Pradesh	13	16
Punjab	16	15
NCT Delhi	11	9
Uttar Pradesh	5	4
Jammu & Kashmir	6	14
Madhya Pradesh	1	6
Chhattisgarh	12	13
Goa	8	8
Gujarat	2	3
Maharashtra	14	11
	17	17

Table 11.1

Rank Correlation

$$\rho = 1 - \frac{6 \sum d_i^2}{n(n^2 - 1)}$$

ρ =0.80

Jammu & Kashmir: Known for its scenic beauty, Jammu & Kashmir ranks first in fiscal management and revenue generation, reflecting effective financial practices and strong revenue generation from tourism and agriculture.

Goa: Renowned for its beaches and vibrant nightlife, Goa excels in fiscal management (3rd rank) and revenue generation (2nd rank), mainly driven by its thriving tourism and mining sectors.

Meghalaya: Meghalaya, a north eastern state, boasts abundant natural beauty and ranks second in fiscal management and third in revenue generation. Its revenue is derived from sectors such as agriculture, tourism, and mining.

Assam: Assam, famous for its tea plantations and wildlife reserves, secures the seventh rank in fiscal management and fourth rank in revenue generation. Its revenue comes from industries like oil, tea, and tourism.

NCT Delhi: The National Capital Territory of Delhi ranks fourth in fiscal management and fifth in revenue generation. Its revenue primarily comes from the service sector, including finance, IT, and retail.

Uttar Pradesh: As India's most populous state, Uttar Pradesh ranks 14th in fiscal management but holds the sixth rank in revenue generation due to its diverse economy encompassing agriculture, manufacturing, services.

Arunachal Pradesh: Arunachal Pradesh, known for its scenic landscapes and rich tribal culture, leads in fiscal management (1st rank) but ranks seventh in revenue generation, which mainly stems from agriculture and small-scale industries.

Chhattisgarh: With rich mineral resources and significant agricultural production, Chhattisgarh ranks eighth in both fiscal management and revenue generation. Its key industries include steel, power, and mining.

Odisha: Renowned for its temples and coastal beauty, Odisha ranks fifth in fiscal management and ninth in revenue generation. Its revenue sources include mining, agriculture, tourism, and the port sector.

Bihar: Bihar, one of India's oldest inhabited regions, holds the 10th rank in both fiscal management and revenue generation. Its economy relies on agriculture, manufacturing, and services.

Punjab: Known as the "Granary of India," Punjab ranks ninth in fiscal management and 11th in revenue generation. Its economy is primarily based on agriculture, with a focus on wheat and rice production.

Gujarat: Gujarat, a state with a robust industrial base, ranks 11th in fiscal management and 14th in revenue generation. Its key sectors include petrochemicals, textiles, pharmaceuticals, and manufacturing.

Karnataka: Known for its IT hubs and historical sites, Karnataka ranks 16th in fiscal management and 13th in revenue generation. The state's economy is diverse, with a strong focus on IT, biotechnology, and agriculture.

Madhya Pradesh: Madhya Pradesh, known for its rich history and wildlife reserves, holds the 13th rank in fiscal management and 12th rank in revenue generation. Its economy relies on agriculture, mining, and manufacturing.

West Bengal: West Bengal, famous for its art, literature, and cultural heritage, ranks 12th in fiscal management and 15th in revenue generation. Its economy encompasses agriculture, manufacturing, and the service sector.

Andhra Pradesh: Known for its coastline and historical sites, Andhra Pradesh ranks 15th in fiscal management and 16th in revenue generation. Its economy is driven by agriculture, industry, and services.

Maharashtra: Maharashtra, India's wealthiest state and home to Mumbai, ranks 17th in both fiscal management and revenue generation. It has a diverse economy, including finance, manufacturing, services

Tamil Nadu: holds the 18th rank in both revenue generation and fiscal management. This suggests that while the state may have a moderate revenue generation capacity, there is room for improvement in terms of managing its finances effectively. It is important to note that the rankings reflect the state's relative performance compared to other states and union territories in India.

Chapter 4

Conclusion and Recommendations

This chapter concludes the entire project and some recommendation has also been given on some states which are as follows.

West Bengal: The financial performance of West Bengal has witnessed some deterioration in recent years, marked by challenges in revenue generation and expenditure management. To improve the situation, the state should focus on enhancing revenue collection through effective tax administration, expanding the tax base, and exploring new revenue sources. It is crucial to exercise fiscal discipline, control expenditures, and prioritize critical sectors for efficient resource allocation. Additionally, promoting investment, developing infrastructure, fostering transparency, investing in skill development, and leveraging the state's tourism and cultural heritage can contribute to revitalizing West Bengal's financial performance.

Bihar: The financial performance of Bihar has experienced a deterioration, marked by challenges in revenue generation and expenditure management. To improve its financial situation, Bihar should focus on enhancing revenue collection by strengthening tax administration, broadening the tax base, and promoting tax compliance. Implementing measures to control expenditures, improving budgetary controls, attracting private investments, promoting skill development, and investing in critical sectors such as infrastructure and education can contribute to revitalizing Bihar's financial performance and fostering sustainable economic growth.

Assam: Assam has shown positive financial performance in recent years, with efforts to improve revenue generation and control expenditures. To further enhance financial performance, Assam should focus on strengthening revenue generation by improving tax collection mechanisms and exploring new revenue sources. Effective debt management strategies, investment in tourism promotion, and improved financial planning and budgeting can support sustainable economic growth and fiscal stability.

Andhra Pradesh: Andhra Pradesh has demonstrated significant progress in financial performance, with a focus on revenue generation and expenditure management. To maintain this positive momentum, the state should continue efforts to enhance revenue generation through effective tax administration and broadening the tax base. Strengthening debt management practices, attracting investments in non-traditional sectors, investing in infrastructure development, and promoting transparency and accountability can contribute to sustained economic growth and financial stability.

Bibliography

information and data related to the project has been taken from the below mentioned sources:

1. rbi.org.in
2. academia.edu
3. mospi.gov.in

Ref

BOTANY Project

Experiment Name

Date

Page No.

CC9

Examination: sem 4

C.U. ROLL NO. : 213235-21-0001

C.U. REG. NO. : 235-1111-0081-21

SUBJECT : BOTA

**PAPER : CC9 FIELD
PROJECT REPORT**

A Field visit to rice cultivation in
Bali Islands, Sunderbans.

EXAMINED

Examined
23/8/23

EXAMINED

A Field visit to rice cultivation in Bali Island, Sundarbans

Date: 26th March, 2022.

- Location: Bali Island, Sundarbans.
- [Altitude & Longitude: 21.9497°N, 89.1832°E
- Temperature: 30°C - 34°C
- Altitude: 7.5 m above sea-level.
- Climate: The climate in the Sundarbans is generally soothing and pleasant. The rainfall is extremely high. The weather is almost always moist and laden with the humid air from Bay of Bengal blowing constantly carrying 80% humidity.

Soil: Soils of the Sundarbans mangrove forest differ from other inland soils in that they are subjected to the effects of salinity and waterlogging, which naturally affect the vegetation.

- In certain places soils are semi-solid and poorly consolidated.
- pH ranges widely from 5.3 to 8.0.
- Texture: Soil is in general medium textured, sandy loam, silt loam or clay

The grain size distribution is highly variable. Silt loam is the dominant textural class. However, Ray et al. 2014 reported a 72.87% silt content in 0-60 cm depth for Indian part of Sundarbans.

- Porosity: 0.7 (Ray et al).
- Sodium and calcium contents of the soil vary from 5.7 to 29.8 meq/100g dry soil, respectively, and are generally low in the eastern region and higher towards the west.
- Available potassium (K) content of the soil is low, 0.3-1.3 meq/100g dry soil.
- Organic matter content varies between 4% and 10% in dry soil.
- Soil Salinity increases from 5 ppt in east (slight to moderate) to 30 ppt in west (highly saline), but the salinity is not uniform from north to south throughout the forest.



Department of Botany
T.H.K Jain college

Experiment Name

Date

Page No.

Students : semester 4

Guided by : Dr. Rimi datta (HOD)

Dr. Sourav Bose

Dr. Anindita Singha Roy.

Mr. Koushik Mondal.

Expert : Dr. Suman Datta, Associate professor,
Serampore College.

Experiment Name

Description of the journey:

As a part of the academic curriculum in Botany, we visited a Rice cultivation field in Bali Island, Sundarbans. Under the guidance of our teachers, we the students of BSc. Botany (Hons) 4th semester, went to a rice field of a village of Bali, island on the third day of our Sundarbans, excursion. We started our journey with a launch safari in the Sundarbans Tiger Reserve (STR) area and studied the forest cover along with different algal and plant sample collections. Then we visited a rice cultivation field in a village on Bali Island. There we learned about cultivation methods, the irrigation techniques and harvesting of rice. The entire process from cultivation to processing of rice crops post harvest along with daily challenges faced during this entire process was explained to us by the farmers. Photographs were taken to record the study.



The process of cultivation of Rice:

The process of rice cultivation includes the following steps as mentioned below:

1. Land preparation:

- For land preparation, sowing is necessary.
- Sowing depends upon whether the crop is to be grown under the 'dry', 'semi-dry' or 'wet' system.
- The soil of Bali island is 'dry soil' type.
- In this case, the land is ploughed immediately after harvest of the previous crop and then brought to tilth by repeated ploughing or harrowing when rains are available.
- Weeds and stubbles of the previous season are collected and burnt on the field.
- Manures, if applied, are added well in advance before sowing.

2. Sowing:

- The seeds are sown directly by broadcast, dibbling or drilling in lines.
- For broadcast sowing, seed rate varies from 80 kg - 100 kg per hectare and for line sowing from 60 - 70 kg per hectare.

Teacher's Signature & Date:

3. Transplantation:

- Seed-bed preparation: 1-2 m wide.

Raised beds,
length of the bed according
to land area available.

- Irrigation channel: 0.3 m wide.

10 cm deep.

Interspersed in between
seed beds.

- 2-3 seedlings of 3-5 weeks each are transplanted in each ridge.
- Early varieties are planted 20 cm from line to line and 10-15 cm from plant to plant,
- Medium and late varieties are planted with 20 cm x 15 cm and 23 cm x 23 cm spacings respectively.

4. Manuring:

- Chemical fertilizers and organic manures are equally important for rice cultivation.
- Nitrogen, either organic or inorganic form, is however, the best manure of rice.

Teacher's Signature & Date:

Experiment Name

Experiment Name

Date

Page No.

- Farmyard manure, compost, oil-cakes, fish manure, green twigs, leaves of leguminous plants like Indigofera, Tephrosia etc. are in common.

5. After - care:

- In the field, water is allowed to stand to a depth to 1-2-3.5 cm until the transplanted seedling were established.
- About 5.0 cm of water with frequent draining and re-irrigating is maintained in the field up to the dough stage of the crop.
- For quick and uniform maturation of grain, water is drained off from the field a week or two before harvesting.
- Weeding either by hand or with a 'rotary wheel' should be given about up to the boot leaf stage of the crop.
- At the same time all the soil near the roots of the plants should be stirred.

6. Harvesting threshing and Storage:

- The crop is harvested when the 'ears' are nearly ripe and the colour of the straw is still slightly green.
- Crop is cut with sickles by the farmers, dried in the field for few days (2-4).
- The crop is then stacked in the threshing yard for a week and then threshed either with sticks, or by beating against a wooden log or treading the entire crop under feet of bullocks.
- Finally, the husk is removed by pounding method or by rice hullers.
- Generally, the cleaned unhusked paddy is dried and stored in jute bags and granaries of different types.

EXAMINED

Teacher's Signature & Date :

Rice is an economically important crop. The grain is used as a staple food of the people in eastern, Southern and South-western parts of India. The rice straw is used as cattle feed and for making straw boards, mats and papers. Rice bran oil is used for making Soap and cosmetics.

A. J. Roy
2/7/2023

UNIVERSITY OF CALCUTTA

B.Sc. SEMESTER—VI PRACTICAL EXAMINATION 2023

PROJECT WORK REPORT

TITLE — HOSTEL MANAGEMENT SYSTEM

SUBMITTED BY THE GROUP MEMBERS —

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UNDER THE GUIDANCE OF —

Prof. RITUPARNA KUNDU

DEPARTMENT OF COMPUTER SCIENCE

T.H.K. JAIN COLLEGE

CERTIFICATE

This is to certify that the project entitled “**HOSTEL MANAGEMENT SYSTEM**” submitted as part of the fulfilment of B.Sc. (Hons.) Computer Science Semester -VI (2022-2023), in the Department of Computer Science, T.H.K. Jain College, affiliated to the University of Calcutta. This project work has been carried out by Trisita Dey (having Roll no. -: 203235-11-0045 and Registration no. -: 235-1211-0150-20), Srijona Bhattacharyya (having Roll no. -: 203235-11-0048 and Registration no. -: 235-1211-0154-20) and Bibha Agarwala (having Roll no. -: 203235-11-0112 and Registration no. -: 235-2211-1057-20) under the supervision of Prof. Rituparna Kundu, T.H.K. Jain College, University of Calcutta.

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External Examiner

Geography Report

Assessment of Bank Oscillation and Bank Erosion of the Ganga at the stretch of Malda District of West Bengal

For the partial fulfillment
of the Project
under BA/B.Sc. Sem VI
Geography Hons
Paper CC14 P
University of Calcutta

Cu Roll no -203235-11-0101
Cu Registration no - 235-1213-0183-20



TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

(Affiliated to University of Calcutta & Accredited by NAAC)

(A Self-financed Govt. approved Minority Institution run-under the auspices of Shree S. S. Jain Sabha)

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TO WHOM IT MAY CONCERN

This is to certify that the content of this Project entitled, "**Assessment of Bank Oscillation and Bank Erosion of the Ganga at the Stretch of Malda District of West Bengal**" is the bonafide work of Kumari Deepika Marnali..... C.U. Registration number 235-1213-0183-20 of and Roll Number 203235-11-0101..... submitted to Dept. of Geography, T. H. K. Jain College for consideration in partial fulfillment of the requirement of B.A./B.Sc. Sem VI Geography Hons. Practical Examination, Paper CC14, University of Calcutta.

The original research work was carried out by a group of eight students (details with contributions mentioned underneath) under my supervision in the academic year of 2022-2023. I recommend this project report for evaluation.

Name	Roll No.	Reg. No.	Contributions
AVINANDITA MUKHERJEE	203235-11-0062	235-1211-0174-20	Downloading Satellite Images and processing in QGIS Chapter 8, Erosion-accretion area on left bank, Net loss/gain of land, Cumulative change in E/A area (mapping, calculation, analysis and interpretation) Chapter 2, Parts of Literature Review
NAINA HELA	203235-11-0064	235-1211-0181-20	Chapter 3, Geographic location map of the study area Chapter 7, Dynamic nature of islands - mapping, calculation Acknowledgement
ADRITA BHATTACHARYA	203235-11-0088	235-1211-0225-20	Soil map and interpretation
SHRADDHA TEWARI	203235-11-0092	235-1211-0229-20	Geological map and interpretation
KUMARI DEEPIKA MARNDI	203235-11-0101	235-1213-0183-20	Chapter 7, Dynamic nature of islands - analysis and interpretation Chapter 1, Introduction and Selection of the study area Preface of the study area
RASMITA MAHARANA	203235-11-0105	235-1211-1037-20	Satellite image processing in Qgis Chapter 5, River bank oscillation of left bank - (mapping, calculation, analysis and interpretation) Chapter 6, Types of meander migration - (mapping, analysis and interpretation) Chapter 2, Parts of Literature Review, Research problem.
ANIMA SHOME	203235-11-0106	235-1211-1038-20	Chapter 5, River bank oscillation of right bank - (mapping, calculation, analysis) Chapter 2, Parts of Literature Review List of tables List of figures
SUBHANJON GOSWAMI	203235-21-0009	235-1111-0112-20	Chapter 3, Topography, geology and soil of the study area, Downloading SRTM-DEM, Preparing Elevation map, Drainage map, DEM-model Chapter 4, Objectives, materials and methods Chapter 9, Conclusion and Hazard preparedness plan References

Name of Supervisor:

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Susmita Kar
10.06.2023

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Kumari Deepika Mannuli
B.Sc (Geography Honours)
Semester VI

PREFACE

As a student of geography honours and in order to gain practical knowledge in the field of Geography, we are required to make project on "River Bank Erosion of the Ganga in Malda District".

The Ganga River, an iconic waterway and a Sacred symbol of Indian Culture, sustains millions of lives and supports a plethora of ecosystems along its course. However, with the growing pressures of population, urbanization, and environmental change, the Ganga faces numerous challenges, one of the most pressing being river bank erosion. The districts nestled along its banks, including Malda, bear witness to the profound impacts of erosion, endangering lives, livelihoods, and the region's socio-economic stability.

The "River Bank Erosion along the Ganga in Malda District" project is an ambitious initiative aimed at addressing the escalating problem of river bank erosion in this region. This preface serves as an introductory document, outlining the project's objectives, significance, and methodology, as well as emphasizing the urgent need for collective action to combat this environmental crisis.

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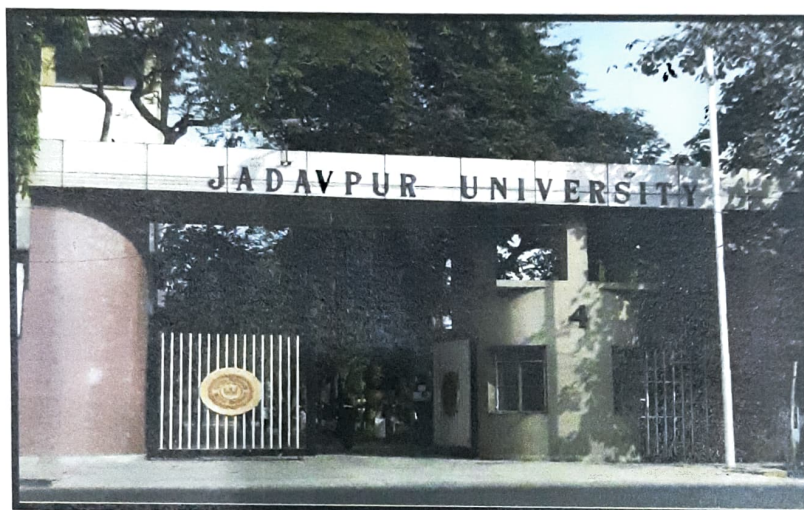
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Microbiology Project

Aishwari Dhalli

**REPORT ON An Educational Visit to
DEPARTMENT OF FOOD TECHNOLOGY
AND BIOCHEMICAL ENGINEERING
Jadavpur University, Kolkata, India**

**DATE: 30th November 2022
TIME: 10:00 AM - 04:00 PM**



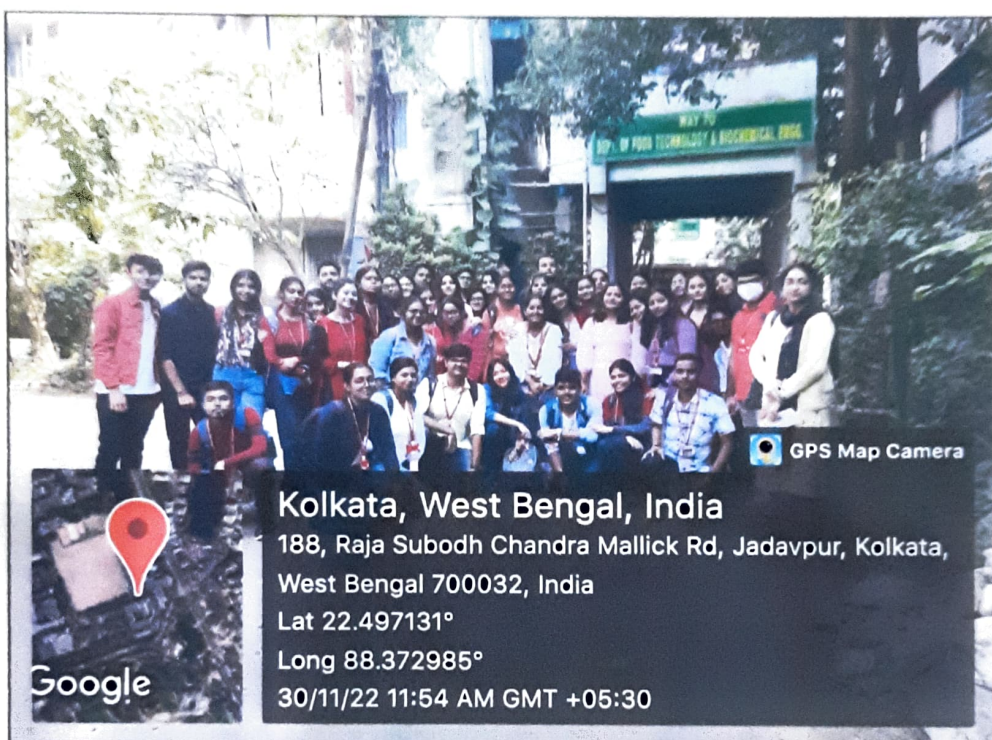
Organized by



**Department of Microbiology
T H K JAIN COLLEGE
Cossipore, Kolkata, India**

**CU ROLL NO.: 203235-11-0066
CU REGISTRATION NO.: 235-1211-0187-20**

LAB-VISIT AT



DEPARTMENT OF FOOD TECHNOLOGY AND BIOCHEMICAL ENGINEERING

Jadavpur University, Kolkata, India



A. ghatak
7/12/22

Department of Microbiology
T. H. K. Jain College
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INTRODUCTION

We, the Semester V of the Department of Microbiology, T H K Jain College, Kolkata witnessed an educational visit on 30 th November, 2022 to the Department of Food technology and Biochemical Engineering, Jadavpur University, Kolkata.

The visit was organized with the prior permission and guidance of the Head of the department, Dr. Prasanta Kumar Bag. The laboratory demonstration process was coordinated by Dr. Debabrata Bera and Dr. Dipankar Halder along with other team members.

The department is well equipped with various instruments and analyzer machines which are mainly based on pilot plant food processing and biochemical applications.

Some of which are described in the following section—

A. Laminar Air Flow (LAF)

Enclosed space with unidirectional flow of sterile air designed to prevent contamination. Air is drawn through a HEPA filter and blown in a very smooth, laminar flow towards the user. The cabinet is usually made of stainless steel with no gaps or joints.

B. Lyophilizer

It follows the process of freeze drying between the range of -78°C to -80°C . In this a condensed sample (condensed in rotary vacuum evaporator and kept in the freezer overnight) is further dried under vacuum and changed into powder form.

C. Lab-scale fermenter

It is a small fermenter used for lab scale production. It contains a chamber where fermentation occurs. The chamber has impeller and baffled for aeration and is coated with a cooling jacket. It has automated control of process parameters like aeration, temperature, foaming, pressure, pH, dissolved oxygen, etc. It is fitted with a digital screen and a software through which it is operated.

D. Dryers

Various types of dryers are found such as Tray dryers, Fluidised-bed dryer, Freeze dryer, Spray dryer, etc. For different items, temperature and time can be varied. For instance, Fluidised bed dryers are operated at a temperature between 80°C - 100°C and capable of reducing large amounts of moisture from powder or granules.

E. Rotary vacuum evaporator

It contains a rotating bulb which is immersed in cold water. The sample is loaded in the bulb and the chiller fitted with it cools the sample and condenses it under vacuum by evaporating the moisture in it. The condensed sample is received in another chamber.

F. Ultrasonicator

It uses ultrasound waves to disrupt cells to obtain the intracellular products. It utilizes different probes which vibrate along with the ultrasonic waves and help in cell disruption.

G. High Performance Thin Layer Chromatography (HPTLC)

Advanced form of Thin Layer Chromatography (TLC). It is an automated device. The procedure begins with loading of the sample using injector and development of the sample loaded plate with first solvent. After removing it, the plate is rotated 90° and developed with a second solvent. Developed plates can also be viewed under UV and Rf is measured using a scanner.

H. Gas Chromatography (GC)

Process of separating compounds in a mixture by injecting a gaseous or liquid sample into a mobile phase and passing the gas through a stationary phase. It consists of- Thin coiled column. Insulated chamber, Inlet. Three different gasses are used – hydrogen, nitrogen and oxygen. Nitrogen increases the pressure and hydrogen and oxygen helps to ignite the sample and increase the temperature. Thus the sample is separated under high temperature and high pressure.

I. i) Moisture Analyzer

Moisture analyzer determines the moisture content of a sample and gives out a digital output.

ii) Texture Analyzer

Texture Analyser measures many properties, such as hardness, brittleness, spreadability, adhesiveness, tensile strength, extensibility, etc. on a vast range of products. The type of probe varies for different products for example p5- Probe of 5 mm is used for chocolate samples. Output is in the form of a peak.

J. Atomic absorption spectroscopy (AAS)

- Devices used to measure concentrations of different metallic elements like K, Na, Zn, Cr, Cu, Pb, etc.
- It contains a burner which is fueled by a mixture of acetylene, argon and Helium. This burner heats the liquid sample and converts the metal from aqueous state to gaseous atoms which absorb light of specific wavelength.
- It requires application of Beer-Lambert Law.
- It works on the principle that free atoms in the ground state can absorb light of a certain wavelength (absorption) and get excited. When these atoms again return to their ground state they emit energy (emission) that can be recorded by an AAS.
- It consists of- nebuliser/atomiser, radiation source (Bulbs emitting various wavelengths of light), compressed air chamber (mixture of Oxygen and other gasses like He, Ar), sample chamber, detection unit.

P.T.O.



(A) LAMINAR AIR FLOW



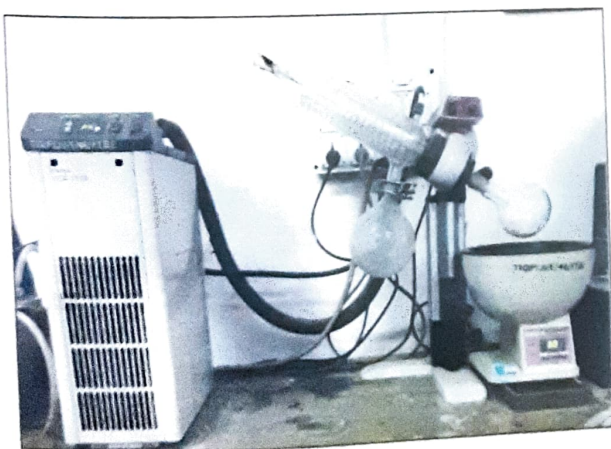
(B) LYOPHILISER



(C) LAB-SCALE FERMENTER



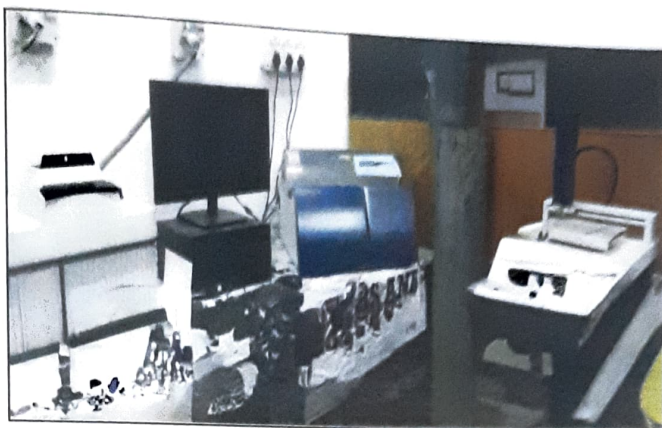
(D) FLUIDISED BED DRYER



(E) ROTARY VACUUM EVAPORATOR



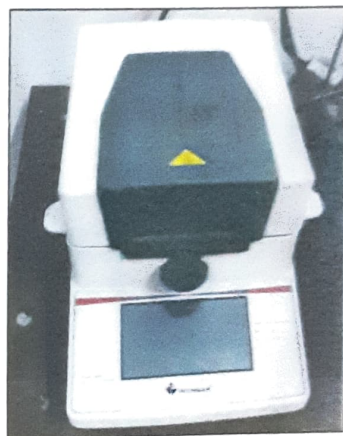
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(I) i. MOISTURE ANALYSER



(I) ii. TEXTURE ANALYSER



(J) ATOMIC ABSORPTION SPECTROSCOPY

22/2/22
Hassan

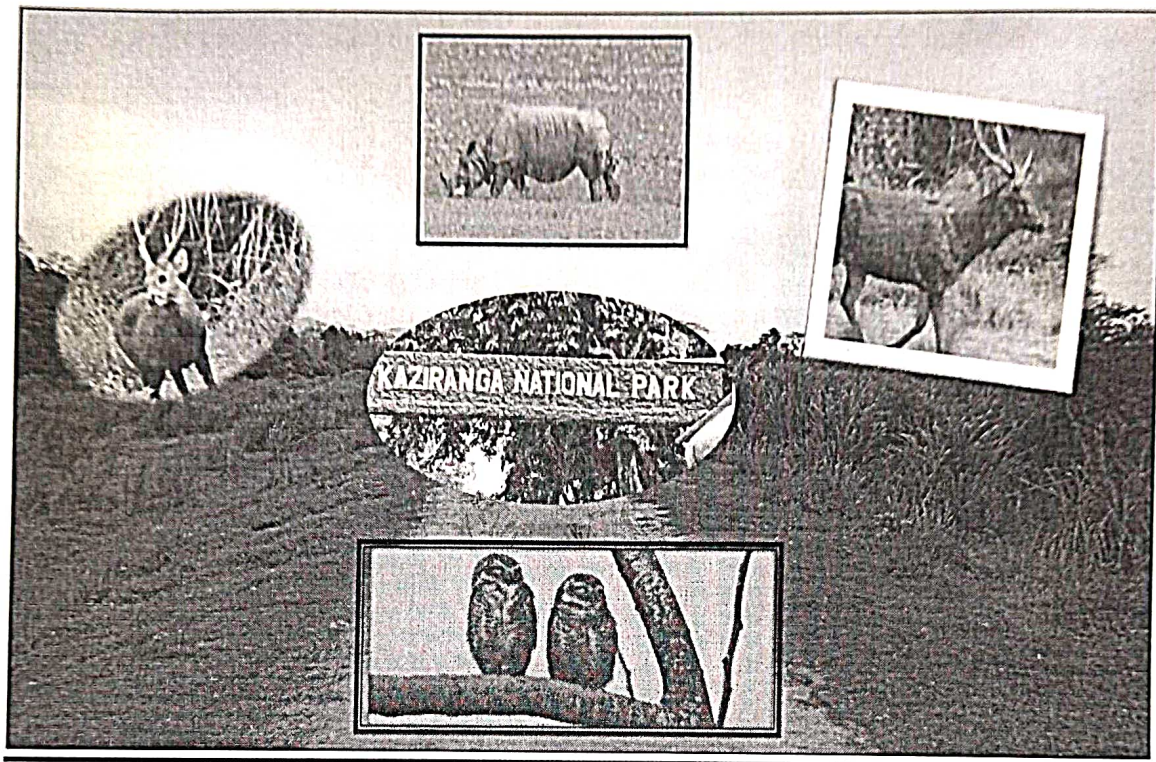
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21/1/23
H

- XAMIN
MICRO BIOLOGY DEPARTMENT
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24, T. H. K. JAIN COLLEGE, KOL-700009

Zoology project

REPORT ON VISIT TO KAZIRANGA NATIONAL PARK



CALCUTTA UNIVERSITY REGISTRATION NO. – 016-1111-0282-19

CALCUTTA UNIVERSITY ROLL NO- 203235-21-0049

SUBJECT – ZOOA

PAPER – CC 11

ACKNOWLEDGEMENT

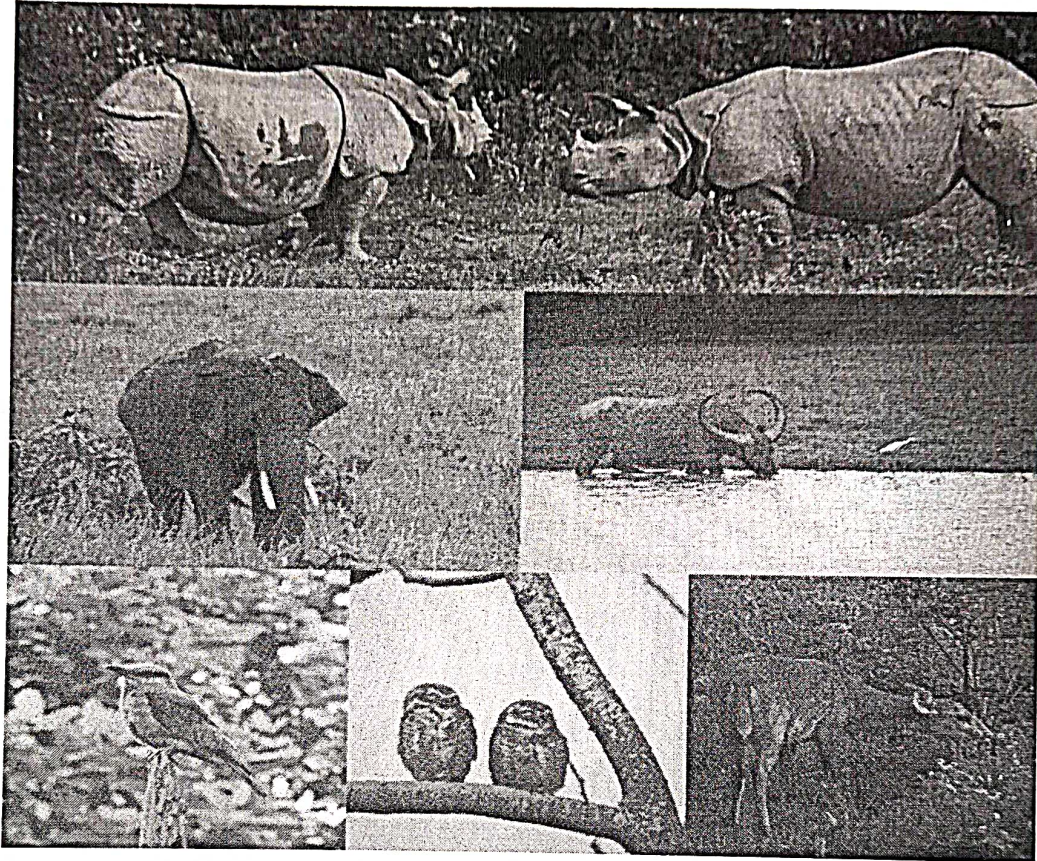
Our most rewarding field study tour to Kaziranga National Park was possible due to kind permission from the Principal Dr. Mausumi Singh (Sengupta), T.H.K. Jain College & from Prof. Ritayan Roy, our Respected H.O.D. of Zoology. We are grateful to them for their kind permission. Prof. Ritayan Roy, Prof. Arijit Das & Prof. Alice R. D'Rozario – our teachers, Lab Attendant- Mrs. Digangana Chatterjee, who kindly accompanied us to Kaziranga national park and guided us in our study of biodiversity. We are grateful to them for taking all the care for our well- being during the tour. We are thankful to the drivers of the safari jeeps & the accompanying Forest Guides, Kaziranga National Park for the permission to visit the park and for various help. They deserve our special thanks

A. K. Sengupta
10/1/23

Arijit Das
10/1/23

R. Roy
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REPORT ON VISIT TO KAZIRANGA NATIONAL PARK



CU ROLL NO.- 203235-11-0026

CU REGISTRATION NO.- 235-1211-0127-20

SUBJECT -ZOOA

PAPER- DSE-B-6-1-P

SEMESTER- VI

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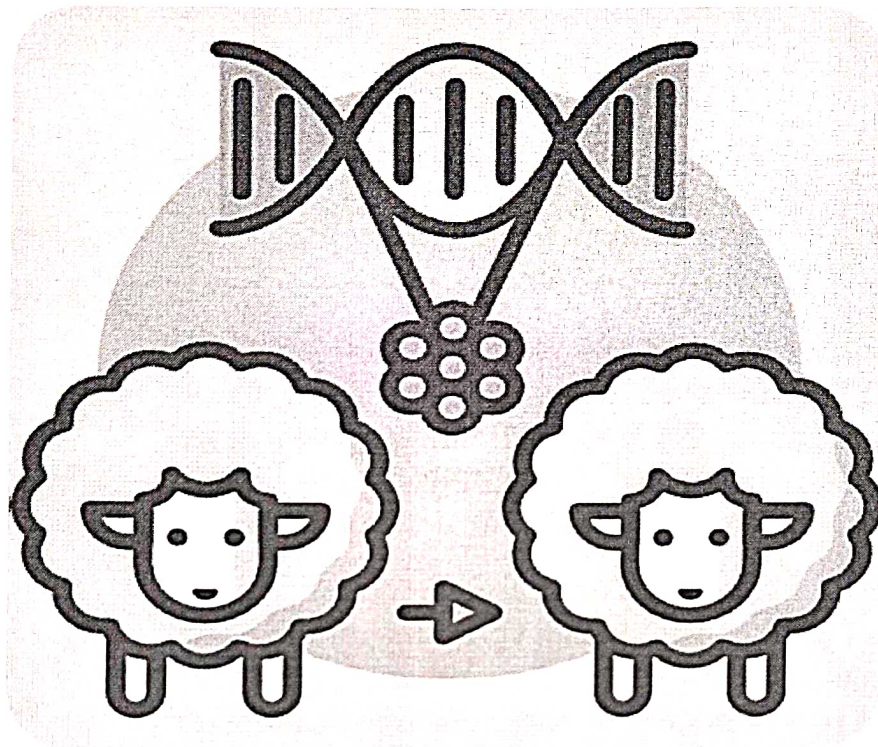
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A. Roy 26/5/23

Arijit Das
26/5/23

Date:

Signature of the Respected Professors



ANIMAL CLONING AND APPLICATION AND ETHICAL ISSUES

CU ROLL NO:
203235-11-0082

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REGISTRATION
NO:**
**235-1211-0216-
20**

**SUBJECT
CODE: ZOOA**

PAPER CODE:
DSEA3

SEMESTER: 6

ACKNOWLEDGEMENT

2

I want to convey my heartfelt appreciation and gratitude to my Prof. Alice R D' Rozario, our Principal Dr. Mausami Singh Sengupta, our Head of the Department Prof. Ritayan Roy, Prof. Arijit Das, as well as my supervisors for providing me with a chance to work on this project.

Animal cloning also aided me in conducting study and learning about a bunch of new topics. I also want to thank my friends for their assistance in completing this project in such a short period of time. It was quite useful in expanding my knowledge and abilities.

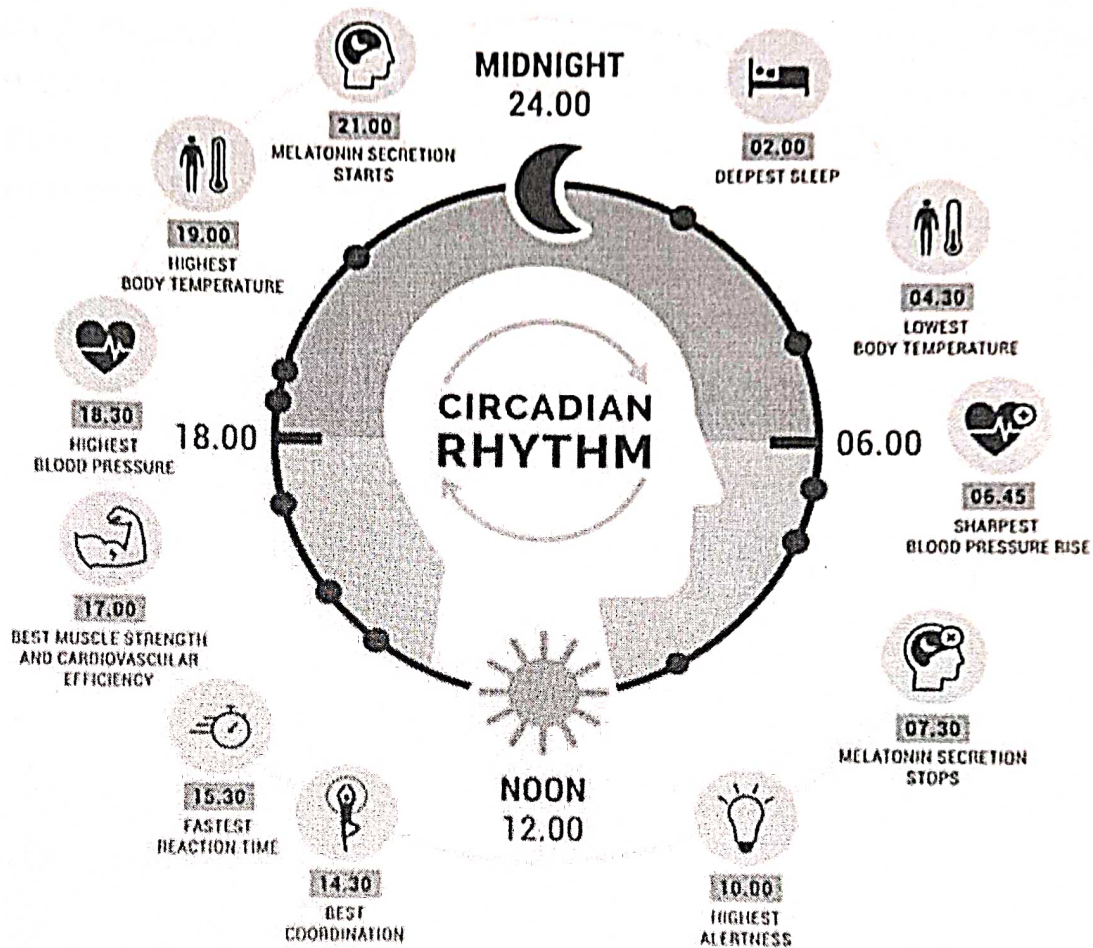
DATE:

A. R. Roy
19/05/2023

Signature of the
Teacher

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19.5.23
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Study of circadian functions in humans
(Daily eating, sleep and temperature patterns)



Name- Arka Kumar Akuli

Semester-6 Practical Examination

Subject Code- ZOOA

Paper Code: DSE-(B)-6-1-P

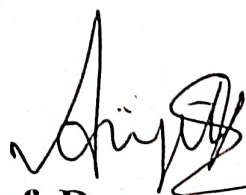
CU Roll number- 203235-21-0035

CU Registration number- 235-1111-0213-20

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I would like to express my special thanks and gratitude to my respected teacher, Professor Arijit Das, and Principal ma'am, Dr. Mausumi Singh Sengupta who gave me the golden opportunity to do this project on the topic, which helped me in doing a lot of research and I came to know about so many things.

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