



Project Proposal On

"Yogoda Satsanga Palpara Mahavidyalaya"

Submitted to:

**Department of Biotechnology
Ministry of Science and Technology
Government of India
New Delhi, India**

Submitted By

principal:Prof. (Dr) Pradipta Kumar Mishra

(Program Coordinator : Sayanti Bagchi)

art 1: General Information

1. Name of the College submitting the Project Proposal :

Yogoda Satsanga Palpara Mahavidyalaya

2. Address:

Yogoda Satsanga Palpara Mahavidyalaya, Palpara, Purba Medinipur, Pin-721458, West Bengal, West Bengal, Purba Medinipur, Palpara

3. Nature of the college:

Government Aided

4. Location of College:

Rural

5. Establishment Year of College:

1964

6. Whether Autonomous body:

No

7. Whether located in aspirational districts:

N

7. Affiliated to which University:

Vidyasagar University

8. Status about Affiliation:

Permanent

9. Whether registered under 12(b) and 2(f) of the UGC?:

Y

10. College Private / NGO ?:

N

11. Application Status:

Fresh


Click to view location document [Rural Certificate](#)

12. Upload of list of file(s) :

Click to view Affiliated to which University document [VU Affiliation YSPM](#)

Evidence For registered under 12(b) and 2(f) of the UGC [ugc document of college](#)

College Principal

 **Name:** Prof. (Dr) Pradipta Kumar Mishra

2. Designation: College Principal

Contact:

3. Phone: 249227

Email: yspmprincipal@rediffmail.com

Mobile No: 7749909590

Programme Coordinator Details

 **Name of Programme Coordinator:** Sayanti Bagchi

2. **Department:** Botany

3. **Designation:** Assistant Professor

4. **D.O.B:** 8/14/1992 12:00:00 AM

Contact:

5. Phone: 249227

Email: bagchisayanti@gmail.com

Mobile No: 8967935556

6. **Address:** Phone: Yogoda Satsanga Palpara Mahavidyalaya, Palpara, Purba Medinipur, Pin-721458, West Bengal



Department List

No.	Department Name	Course Name	Year of Start of Course	Contact Person	Mobile No.	Email
1	BOTANY	B.SC	2001	Sayanti Bagchi	8967935556	bagchisayanti@gmail.com
2	ZOOLOGY	B.SC	2001	Ayan Kumar Bhunia	9734930139	ayanbhunia23@gmail.com
3	CHEMISTRY	B.SC	1984	Dr. Sanjib Dey	9434414325	deysanjib2012@yahoo.in
4	PHYSICS	B.SC	1986	Dr. Arindam Pal	7602864884	arindam.phd@gmail.com
5	MATHEMATICS	B.SC	1984	Prasanta Kumar Ghosh	9732876721	pkgghosh.yspm@gmail.com
6	Computer Science	B.SC	1996	Sova Pal	9734459168	sova_pa101@rediffmail.com

Part 2: Infrastructure Laboratories Details

Sr.No.	Department Name	Equipment Name	Total Expenditure	Purchase Year	No of Equipment	Equipment Cost	Consolidated Amt	Is Functional
1	BOTANY	COMPOUND LIGHT MICROSCOPES	79450.00	2022	2	24000.00	48000.00	Yes
2	BOTANY	SIMPLE MICROSCOPE	79450.00	2022	3	4067.00	12201.00	Yes
3	BOTANY	QUADRAT 3X3 FULL SET	79450.00	2022	1	7200.00	7200.00	Yes
4	BOTANY	WEIGHT MACHINE	79450.00	2022	1	12000.00	12000.00	Yes
5	ZOOLOGY	1. BACTERIOLOGICAL INCUBATOR	364650.00	2019	1	75000.00	75000.00	Yes
6	ZOOLOGY	Ph METER	364650.00	2019	1	40000.00	40000.00	Yes
7	ZOOLOGY	HOMOGENIZER	364650.00	2019	1	30000.00	30000.00	Yes
8	ZOOLOGY	DISSECTION TRAY	364650.00	2021	30	525.00	15750.00	Yes
9	ZOOLOGY	CENTRIFUGE	364650.00	2021	1	4700.00	4700.00	Yes
10	ZOOLOGY	DIGITAL BALANCE	364650.00	2021	1	9200.00	9200.00	Yes
11	ZOOLOGY	MICROTOME	364650.00	2021	1	50000.00	50000.00	Yes
12	ZOOLOGY	MICROSCOPES	364650.00	2021	5	28000.00	140000.00	Yes
13	CHEMISTRY	CALORIMETER	8550.00	2019	1	885.00	885.00	Yes
14	CHEMISTRY	DIGITAL ECONOMY BALANCE	8550.00	2019	1	7670.00	7670.00	Yes
15	PHYSICS	POWER SUPPLY	137200.00	2019	2	450.00	900.00	Yes
16	PHYSICS	ZENER DIODE SETUP	137200.00	2019	1	3500.00	3500.00	Yes
17	PHYSICS	MULTIMETER	137200.00	2019	2	350.00	700.00	Yes
18	PHYSICS	COMPUTER DESKTOP	137200.00	2019	1	48000.00	48000.00	Yes
19	PHYSICS	MILLIKAN OIL DROP INSTRUMENT	137200.00	2021	1	35000.00	35000.00	Yes
20	PHYSICS	POWER SUPPLY	137200.00	2021	2	450.00	900.00	Yes
21	PHYSICS	KATER'S PENDULUM	137200.00	2021	1	14200.00	14200.00	Yes
22	PHYSICS	HALL EFFECT	137200.00	2021	1	34000.00	34000.00	Yes
23	MATHEMATICS	COMPUTER DESK	334300.00	2019	6	6000.00	36000.00	Yes
24	MATHEMATICS	COMPUTER DESKTOP	334300.00	2019	2	54000.00	108000.00	Yes
25	MATHEMATICS	PRINTER	334300.00	2019	1	12500.00	12500.00	Yes
26	MATHEMATICS	COMPUTER DESKTOP	334300.00	2021	3	54500.00	163500.00	Yes
27	MATHEMATICS	PRINTER	334300.00	2021	1	14300.00	14300.00	Yes
28	Computer Science	COMPUTER DESKTOP	169500.00	2019	1	50000.00	50000.00	Yes
29	Computer Science	PRINTER	169500.00	2019	1	14500.00	14500.00	Yes
30	Computer Science	INVERTER	169500.00	2019	1	35000.00	35000.00	Yes
31	Computer Science	COMPUTER DESKTOP	169500.00	2021	1	70000.00	70000.00	Yes

Library Details

Is Central Library	Computer Internet Facility	No. of Lecture Halls	No. of Laboratories
Yes	Yes	14	7
Remarks	There are departmental libraries in the respective departments. But computer internet facility is only present in zoology, chemistry and computer science department. Chemistry department consists of one laboratory but the other five departments have one laboratory for each.		
Total amount spent the last 3 years			
Sr.No.	Financial Year	Amount	
1	2021-2022	85366	
2	2019-2020	85367	
3	2018-2019	85367	



Part 3: Faculty

Faculty Details

1.	Department Name	BOTANY
	Name of faculty	SAYANTI BAGCHI
	Type of Faculty	Permanent
	Qualification	M.SC
	Area of specialization	GENETICS, BIOTECHNOLOGY & CELL BIOLOGY, MOLECULAR BIOLOGY
	Orientation Course last five years	1
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	7	
	List of publications in last five years	SAYANTI BAGCHI PUBLICATIONS
2.	Department Name	BOTANY
	Name of faculty	SAWMEN KUMAR GHORAI
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	PALAEOBOTANY AND PALYNOLOGY
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
3.	Department Name	CHEMISTRY
	Name of faculty	DR. SANJIB DEY
	Type of Faculty	Permanent
	Qualification	PhD
	Area of specialization	PHYSICAL CHEMISTRY
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	Dr. Sanjib Dey UGC Minor research Project Title of the Research Project: "Investigation on Ni-Zn ferrite (Ni _{1-x} Zn _x Fe ₂ O ₄) nanoparticles synthesized by sol-gel and co-precipitation method." Effective date of Starting the Project: 10.03.2017. Period of Expenditure : 10.03.2017 to 9.03.2019 Cost of the Project- Rs. 3,90,000/- (Three lakhs ninty thousand only) Name of funding agencies:	
	Conferences/Symposia/Seminar/Workshop last five years	
	5	
	List of publications in last five years	SANJIB DEY PUBLICATIONS
4.	Department Name	CHEMISTRY
	Name of faculty	DR. SABYASACHI KHATUA
	Type of Faculty	Permanent
	Qualification	PhD
	Area of specialization	PHYSICAL CHEMISTRY
	Orientation Course last five years	1
	Refresher Course last five years	1
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	

5	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	2	
	List of publications in last five years	SABYASACHI KHATUA UPDATED PUBLICATION
5.	Department Name	CHEMISTRY
	Name of faculty	SUDIP MAITY
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	ORGANIC CHEMISTRY
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
6.	Department Name	Computer Science
	Name of faculty	SOVA PAL
	Type of Faculty	Permanent
	Qualification	M.SC
	Area of specialization	OPERATION RESEARCH
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	04	
	List of publications in last five years	SOVA PAL BERA UPDATED PUBLICATION
7.	Department Name	Computer Science
	Name of faculty	SUMAN MONDAL
	Type of Faculty	Permanent
	Qualification	M.SC
	Area of specialization	COMPUTER VISION
	Orientation Course last five years	1
	Refresher Course last five years	1
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	04	
	List of publications in last five years	SUMAN MONDOL UPDATED PUBLICATION
8.	Department Name	Computer Science
	Name of faculty	ARNAB CHAKRABORTY
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	N/A
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	

5	List of publications in last five years	ARNAB CHAKRABORTY UPDATED PUBLICATION																						
6	<table border="1"> <thead> <tr> <th>Department Name</th> <td>MATHEMATICS</td> </tr> </thead> <tbody> <tr> <td>Name of faculty</td> <td>PRASANTA KUMAR GHOSH</td> </tr> <tr> <td>Type of Faculty</td> <td>Permanent</td> </tr> <tr> <td>Qualification</td> <td>M.SC</td> </tr> <tr> <td>Area of specialization</td> <td>ADVANCE OPERATIONAL RESEARCH</td> </tr> <tr> <td>Orientation Course last five years</td> <td>1</td> </tr> <tr> <td>Refresher Course last five years</td> <td>03</td> </tr> <tr> <td colspan="2">R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.</td> </tr> <tr> <td colspan="2">Prof. Prasanta Kumar Ghosh Title of Project: "Modelling of some inventory problems under imperfect production process with machine breakdown and reverse logistic consideration". Funding Agency : University Grant Commission (UGC) Project Cost: Rs.350000 Duration: 18.03.2014-17.03.2016</td> </tr> <tr> <td colspan="2">Conferences/Symposia/Seminar/Workshop last five years</td> </tr> <tr> <td colspan="2">10</td> </tr> </tbody> </table>	Department Name	MATHEMATICS	Name of faculty	PRASANTA KUMAR GHOSH	Type of Faculty	Permanent	Qualification	M.SC	Area of specialization	ADVANCE OPERATIONAL RESEARCH	Orientation Course last five years	1	Refresher Course last five years	03	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.		Prof. Prasanta Kumar Ghosh Title of Project: "Modelling of some inventory problems under imperfect production process with machine breakdown and reverse logistic consideration". Funding Agency : University Grant Commission (UGC) Project Cost: Rs.350000 Duration: 18.03.2014-17.03.2016		Conferences/Symposia/Seminar/Workshop last five years		10		PRASHANTA GHOSH UPDATED PUBLICATION
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N/A																								

	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
13.	Department Name	PHYSICS
	Name of faculty	DR. ARINDAM PAL
	Type of Faculty	Permanent
	Qualification	PhD
	Area of specialization	CONDENSED MATTER PHYSICS, ORGANIC SEMICONDUCTOR
	Orientation Course last five years	1
	Refresher Course last five years	1
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	7	
	List of publications in last five years	ARINDAM PAL UPDATED PUBLICATION
14.	Department Name	PHYSICS
	Name of faculty	DR. AMINUR RAHAMAN
	Type of Faculty	Permanent
	Qualification	PhD
	Area of specialization	OPTOELECTRONICS MATERIAL & DEVICES, GENERAL THEORY OF RELATIVITY, HIGH ENERGY PHYSICS, CONDENSED MATTER PHYSICS
	Orientation Course last five years	1
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	06	
	List of publications in last five years	AMINUR RAHAMAN UPDATED PUBLICATION
15.	Department Name	PHYSICS
	Name of faculty	KALI KRISHNA GIRI
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	ELECTRONICS
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
16.	Department Name	PHYSICS
	Name of faculty	SWADESH RANJAN BHAKTA
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	SOLID STATE PHYSICS
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	


	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
17.	Department Name	PHYSICS
	Name of faculty	SOURAV MISHRA
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	ELECTRONICS
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
18.	Department Name	PHYSICS
	Name of faculty	SANTIPADA MAITY
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	SOLID STATE PHYSICS
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
19.	Department Name	ZOOLOGY
	Name of faculty	AYAN KUMAR BHUNIA
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	MOLECULAR BIOLOGY, DEVELOPMENTAL BIOLOGY AND BIOINFORMATICS
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	
	N/A	
	List of publications in last five years	
20.	Department Name	ZOOLOGY
	Name of faculty	SUPRAVAT MAITI
	Type of Faculty	Part Time
	Qualification	M.SC
	Area of specialization	CELL AND MOLECULAR BIOLOGY
	Orientation Course last five years	N/A
	Refresher Course last five years	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.	
	N/A	
	Conferences/Symposia/Seminar/Workshop last five years	

	N/A
	List of publications in last five years
	Department Name
	ZOOLOGY
	Name of faculty
	PUJA PANDA
	Type of Faculty
	Part Time
	Qualification
	M.SC
	Area of specialization
	FISHERY
	Orientation Course last five years
	N/A
	Refresher Course last five years
	N/A
	R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies.
	N/A
	Conferences/Symposia/Seminar/Workshop last five years
	N/A
	List of publications in last five years

Part 4: Student

Student Details List

Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
1	BOTANY	2017	90	MERIT LIST	57	69
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
38		18	5	8	20	49
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
2	BOTANY	2018	90	MERIT LIST	47	55
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
35		10	3	7	15	40
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
3	BOTANY	2019	90	MERIT LIST	51	60
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
42		12	1	5	8	52
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
4	BOTANY	2020	90	MERIT LIST	59	71
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
45		12	6	8	25	46
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
5	BOTANY	2021	90	MERIT LIST	10	10
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
7		2	0	1	4	6
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
6	CHEMISTRY	2017	32	MERIT LIST	22	30
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
17		7	1	5	22	8
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
7	CHEMISTRY	2018	32	MERIT LIST	22	30
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
17		7	1	5	22	8

	Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
		CHEMISTRY	2019	32	MERIT LIST	18	26
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	14	7	0	5	16	10	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
9	CHEMISTRY	2020	32	MERIT LIST	20	29	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	17	6	2	4	21	8	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
10	CHEMISTRY	2021	26	MERIT LIST	22	24	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	21	2	0	1	18	6	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
11	Computer Science	2017	32	MERIT LIST	4	4	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	4	0	0	0	4	0	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
12	Computer Science	2018	32	MERIT LIST	11	12	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	11	1	0	0	11	1	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
13	Computer Science	2019	32	MERIT LIST	0	4	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	4	0	0	0	4	0	
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted	
14	Computer Science	2020	32	MERIT LIST	8	9	
Total No. of student admitted(Category Wise)							
	No of Student GEN Category	No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student	
	8	1	0	0	8	1	

Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
15	Computer Science	2021	32	MERIT LIST	9	13
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
12		0	0	1	11	2
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
16	MATHEMATICS	2017	108	MERIT LIST	43	61
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
40		8	3	10	46	15
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
17	MATHEMATICS	2018	108	MERIT LIST	39	52
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
37		5	2	8	31	21
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
18	MATHEMATICS	2019	88	MERIT LIST	28	46
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
28		8	1	9	27	19
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
19	MATHEMATICS	2020	88	MERIT LIST	24	43
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
28		6	2	7	27	16
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
20	MATHEMATICS	2021	32	MERIT LIST	20	26
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
20		1	0	5	19	7
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
21	PHYSICS	2017	50	MERIT LIST	31	40
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
25		10	2	3	36	4
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No. of students admitted
22	PHYSICS	2018	50	MERIT LIST	25	32

Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
20		5	0	7	22	10
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
23	PHYSICS	2019	50	MERIT LIST	32	39
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
21		10	1	7	28	11
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
24	PHYSICS	2020	50	MERIT LIST	30	42
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
23		8	3	8	40	2
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
25	PHYSICS	2021	10	MERIT LIST	6	10
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
9		0	0	1	8	2
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
26	ZOOLOGY	2018	12	MERIT LIST	10	11
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
6		2	1	2	5	6
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
27	ZOOLOGY	2019	12	MERIT LIST	8	10
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
6		3	0	1	4	6
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
28	ZOOLOGY	2020	12	MERIT LIST	11	11
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
5		3	1	2	6	5
Sr.No.	Department	Year	No. of seats	Mode of selection	No. of students passed out	No.of students admitted
29	ZOOLOGY	2021	12	MERIT LIST	5	5
Total No. of student admitted(Category Wise)						
No of Student GEN Category		No of Student SC Category	No of Student ST Category	No of Student OBC Category	No of Male Student	No of Female Student
4		1	0	0	5	0

Summer training/Research project Details

Do all students under-take a summer training/ research project? If yes, what is the duration. No. of students in each project: Yes

1(a). Duration: 60 DAYS For Each Subject

1(b). Number of students: 320

2. Provide the list of projects under-taken by students in last 2 years: [ENVS PROJECT DETAILS](#)

Consolidated PDF file consisting below mentioned details:

a) Enclose copy of curriculum

3. b) List of the practical experiments in the curriculum actually done by the students and practical demonstrated.

c) When was the last exercise for curriculum revision undertaken?

[Honours syllabus VU cbs](#)

d) Specialization of the course

Part 5: Technical Details



1. **Department:** BOTANY
2. **Half page executive summary indicating relevance and expected outcome:**

Yogoda Satsanga Palpara Mahavidyalaya (YSPM) is located at Palpara of Purba Medinipur District of West Bengal. The college was established in 1964 and is affiliated under Vidyasagar University. The college is awarded by National Assessment and Accreditation Council (NAAC) and also recognized by University Grants Commission (UGC). The college is a boon for the rural people of the Palpara village and nearby villages to overcome their incapability of completing higher study and to acquire bachelor degree in different subjects of the choices. The general degree course of Botany Department had started in 2001. The Botany Department is consisting of one laboratory, two lecture halls, one room for the faculties along with the departmental library. There are some compound and some simple microscopes, some materials for plant physiology practical, some chemicals, reagents, etc, some specimen, glass apparatus are present in the laboratory. But these are not enough according to the syllabus to complete all the essential practical. Some equipment for molecular biology, a binocular microscope and a no. of instruments and another laboratory etc must be incorporated with this and thus can apply for opening an honours degree of Botany. And the general degree syllabus can also be covered well. For betterment of the students there is a great requirement for hands on training on the use of the equipment, Seminar or conference and lecture series could be organised in order to extend the knowledge, enrich concepts & ideas about the subject. Also enhance students' upgradation towards higher study & research interests.
3. **Specific objectives:**
 - i) Incorporation of new instruments, new practical, separate laboratory with advanced equipment.
 - ii) To enhance the knowledges on the subject, awareness, ideas, new thinking, to motivate the students for higher study.
 - iii) Hands on training on different instrument including microscopes for botany practicals.
 - iv) Participation of the students in new workshops and seminars.
 - v) Including new separate departmental library comprising of no. of important books for the subject.
 - vi) Special Facilities of books for students of poor financial background.
 - vii) Different workshop programme management for including new important practicals.
 - viii) Upgradation of classrooms, lecture halls and smart room to be included.
 - ix) A no. of advanced instruments to be included for the research purposes of the faculties.
 - x) Programmes to be included for interaction of the students with the eminent Faculties and researchers from universities and other institutions.
4. **Measures to be adopted to enhance bench skills of students, project work, summer training & industrial training:**
5. **Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st (a) Year):**
 - 01 Paper presentation during seminar or conferences.
 - 02 Attend academic Workshops
 - 03 Hands-on training on newly introduced practical and latest technologies.
5. **Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd (b) Year):**
 - 04 Presentation of paper on research purposes.
 - 05 Attend research related Workshops.
 - 06 Industry-Academia Workshop on Successful Grant Writing Technique.
5. **Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd (c) Year):**
 - 07 Attend/present paper at seminars/conferences
 - 08 Attend academic Workshops
6. **Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety issues:**

Safety measures to be taken by students in order to protect the laboratory materials, equipment and precaution to be taken to handle the chemicals and sharp object for dissection and glasses as well. Awareness programme and workshop should be provided to students following IPR seminar.


Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:

? Paper Chromatography, Thin layer Chromatography, Column chromatography. ? Estimation of Protein by Lowry's method. ? Plant micro technique experiments. ? Isolation of chloroplasts by differential centrifugation. ? Cell Size measurement by micrometry
8. **No. of beneficiaries:**

60
9. **Proposed activities for laboratory staff:**

N/A
10. **Involvement of visiting faculty (details of lecture & practicals to be covered in each department):**

 ? PCR, Blotting Techniques, PAGE & AGE. (Demonstration) ? Sequence homology & Gene annotation. ? Lectures on Basic concepts of Research & Research Methodology

 **Involvement of visiting faculty (details of lecture & practicals to be covered in each department):**

? PCR, Blotting Techniques, PAGE & AGE. (Demonstration) ? Sequence homology & Gene annotation. ? Lectures on Basic concepts of Research & Research Methodology

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	BOTANY	01 Outreach Program 02 Outreach Program 03 Student Training	1. Environmental Field visit & survey. 2. Different Lab visits. 3. Webinar/Seminar/Workshops	60 50 30	January-March March-May June-July and August-September
2	BOTANY	04 Faculty Development Program 05 Visiting Lectures 06 Student Projects	4. For Career Advancement courses, seminar/webinar and workshops. 5. Timely visits, lectures/speech and training by experts. 6. Departmental/Interdepartmental	15 60 60	November-December Depends on time of resource person. November-February March-June
3	BOTANY	07 Student Bench Skill Development 08 Student Bench Skill Development	7. Hands on training on Practical 8. Inclusion of new practical.	40 30	June-August, September-November January-March

13. Proposed outreach activities for school teachers and college teachers per year:

- Seminar and workshops on technologies of Plant Biotechnology & Molecular Biology.
- Awareness programme on Environmental protection & species conservation.
- Arrangement of seminars on Applied Botany & its perspectives.

1. Department:

ZOOLOGY

2. Half page executive summary indicating relevance and expected outcome:

Yogoda Satsanga Palpara Mahavidyalaya, a leading Educational Institution under the patronage of Yogoda Satsanga Society of India, located in the extreme south-west corner from the head quarter of the district Purba Medinipur, West Bengal. Zoology, a discipline was established in 2001. The Department comprises of a departmental library and a Laboratory. The Instruments are in good condition, functionally active and serving the requirements for the faculties and students. The Department proposes a four-quadrant student-oriented objective to nurture concept development viz., Syllabus-centric projects, Co-curricular activities. There should be hands-on training of various instruments provided for the students. The Department conducts the classes for rectification to encourage the students and all the faculty members provide the study materials to the students for their better understanding and improvement. In view of the research interest of the students, they are encouraged to attend seminars, conferences, interaction with the renowned teachers, from different Institutes and Universities. The college expects the mentioned outcome from the DBT STAR college scheme; to activate the upgradation percentage of the students towards higher education and scientific research and to act for interdepartmental research for the students and faculties within college. We try to improve the scientific awareness, thinking, ideas, concepts of the students.

3. Specific objectives:

The Department of Zoology on successful completion of the DBT Star College Scheme seeks to achieve the following program specific objectives ? To fulfil the needs for constructing a proper laboratory for the department. ? Upgradation of the departmental libraries. ? To impart student interest towards the subject and its depth by organising a no. of lecture series. ? To provide faculty development programmes for the faculties. ? To enhance students' interest for higher study and scientific research. ? Provide opportunity to students face to face with eminent teachers and scientists related to the discipline from various Institutes and Universities. ? A no. of reputed journals, articles could be provided for the students & faculties. ? To organise seminars/workshops/conference for students every year. ? To conduct hands on training workshop regarding the use of equipments. To conduct awareness programme regarding protection of environment an its factors.

4. Measures to be adopted to enhance bench skills of students, project work, summer training & industrial training:

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st (a). Year):

1. Attend academic Workshops
2. Paper presentation during seminar/webinar.
3. Hands-on training on Animal Tissue culture and Microscopy.

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd (b) Year):

4. Attend academic Workshops
5. Paper presentation during seminar/webinar.
6. Industry-Academia Workshop on Successful Grant Writing Technique

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd (c) Year):

7. Attend academic Workshops
8. Paper presentation during seminar/webinar.

6. Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety

**issues:**

Students should have to be provided with SOP to protect laboratory materials, handling glass materials with proper maintenance, avoid environmental hazards. Awareness programme could be organised for such training for the students to learn about the precautions to be taken.

Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:

i. Isolation of mRNA & protein. ii. Gel Electrophoresis, SDS-PAGE and AGE. iii. Demonstration of ELISA. iv. Acid alkaline phosphatase assay from serum/tissue. v. Isolation & quantification of genomic DNA using Spectrophotometer. vi. Plasmid DNA isolation & DNA quantification using Agarose Gel Electrophoresis. vii. Paper chromatography – column / layer. viii. Protein isolation from tissue vortex, sonicator & chemicals. ix. DNA Fingerprinting, PCR, Western blot, Southern hybridization, DNA microarray. x. Estimation of protein by Lowry's method. xi. Determination of Turbidity. xii. Microtomy.

8. No. of beneficiaries:

30

9. Proposed activities for laboratory staff:

N/A

10. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

- Concept of oncogenes and tumor suppressor genes with special reference to p53 • Retinoblastoma and Ras and APC • Cell signalling & transduction pathways • Inhibitors and un-couplers of Electron Transport System. • Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration.

11. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

- Concept of oncogenes and tumor suppressor genes with special reference to p53 • Retinoblastoma and Ras and APC • Cell signalling & transduction pathways • Inhibitors and un-couplers of Electron Transport System. • Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration.

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	ZOOLOGY	1. Outreach Program 2. Outreach Program 3. Student Training	1. Field visits & to study animal & fish diversity. 2. Various Lab visits. 3. Seminar/Workshop/Hands on training on the use of equipment and newly introduced practicals	30 30 30	January-March March-May June-July and August-September
2	ZOOLOGY	4. Faculty Development Program 5. Visiting Lectures 6. Student Projects	4. Seminar/Workshop/Career Advancement Courses 5. Special classes on important courses of the syllabus. 6. Departmental/Interdepartmental	30 30 30	November-December Depends on time of resource person. November-February March-June
3	ZOOLOGY	7. Student Bench Skill Development 8. Student Bench Skill Development	7. Hands on training on Practical & use of equipments. 8. Introduction of new Practicals.	30 30	June-August, September-November January-March

13. Proposed outreach activities for school teachers and college teachers per year:

- Awareness campaign on Endangered Animal species protection. • Seminars/conferences on Zoological Survey. • Seminars on Advancement of Biological science.


1. Department:

CHEMISTRY

2. Half page executive summary indicating relevance and expected outcome:

Yogoda Satsanga Palpara Mahavidyalaya is situated in a remote area of the district of Purba Medinipur of West Bengal. The majority of the students of this college come from a socio-economically backward background. The mission and vision of the founders of the college was to provide quality education to such students. The college continues to do so since it was inaugurated in 1964. At present the college aims to establish itself as an eminent institution of the district and is working hard towards fulfilling its goal. Chemistry was introduced in General course in 1984 and in Honours course in 2004. Some of the pass-out students of the chemistry department are presently working at different research institutes of the country. The department has two laboratories, one for Inorganic & Organic Chemistry practicals and the other for Physical Chemistry practicals. Both laboratories are equipped with various important instruments and chemicals. Apart from laboratory facilities, the department has a small departmental library. The department has its own collection of books, one desktop computer and a printer. The department organises the remedial classes to help the students and all the faculty members provide study materials to the students for their better understanding. A large number of students keep interest in higher education and research. The Department expects to improve the laboratory facilities by procuring some new instruments, advanced models of the existing instruments and costly chemicals and consumables. The department aims to provide each and every student, enrolled in Chemistry course (both Honours & General), with proper experimentation facility. Also it aims to make arrangements for various activities like workshops, industrial and laboratory visits and lectures on modern topics of chemistry. The students will be trained to think, plan and execute different types of experiments within the framework of the university and beyond. This will enable them to

3. Specific objectives:

 ? Science is an experimental subject. If students get proper instrumental facilities, chemicals, they can perform the experiments on their own (guidance will be provided). They will gain confidence in the field and will gradually learn the pros and cons of the experiment. Inspire students to take up higher studies and to explore their research mind. ? Students will be motivated to participate in activities like Workshops/ Student Seminar/ Project work. Through these they will learn different problem solving techniques of different branches of Chemistry. ? Organize extension lectures, guest lectures, industrial visits, students' seminars, seminars, group discussions, workshops for the students. ? Upgrade the departmental library with relevant books for the new course ? To provide better library facility to the students and teachers ? Students will be motivated to participate in various activities like workshops, student seminar, project work etc. Through these they will learn different problem solving techniques of different branch of Chemistry. ? Provide opportunity to students face to face with eminent teachers and scientists related to the discipline from various Institutes and Universities. ? Provide facility to the students and teachers to access various reputed National and International Journals.

4. Measures to be adopted to enhance bench skills of students, project work, summer training & industrial training:

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st (a). Year):

01 Attend/present paper at seminars/conferences 02 Attend Workshops 03 One day seminar on Nano materials

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd (b) Year):

04 Attend/present paper at seminars/conferences 05 Attend Workshops 06 Two days inter college workshop on Computational methods in Chemistry

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd (c) Year):

07 One day seminar on Industrial Chemistry 08 Attend/present paper at seminars/conferences 09 Participate in various courses (including virtual ones) as part of their career advancement/ as required by curriculum at any stage and visit laboratory to keep them updated with modern research techniques

6. Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety issues:

Use of safety Glasses, full sleeve lab coats, Gloves and sound knowledge of chemicals used in Laboratory

7. Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:

? Determination of pH of unknown buffer, spectrophotometrically ? Column Chromatographic separation of Mixture of Dyes (Fluorescein and Methylene blue. ? Separation of Fe(II) and Al(III) ions from their mixture using cellulose column chromatography ? To separate the mixture of Ni²⁺ and Fe²⁺ by complexation with DMG and extracting the Ni(II) DMG complex in chloroform, and determine its concentration by spectrophotometry. ? Estimation of Cr and Mn in Steel. ? Study of kinetics of K₂S₂O₈ + KI reaction, spectrophotometrically ? Determination of pK_a values of indicator using spectrophotometry ? Spectrophotometric determination of CMC ? Measurement of 10Dq by spectrophotometric method. ? Determination of exchange capacity of cation exchange resins and anion exchange resins. ? Determination of Co(II) and Ni(II) Spectrophotometrically. ? Analysis of deodorants and antiperspirants, Al, Zn, boric acid, chloride, sulphate. ? Determination of Antimony (II) in tartaremetic by standard potassium bromate solution. ? Column chromatographic separation of leaf pigments from spinach leaves ? Study of some of the common bio-indicators of pollution Estimation of SPM in air samples.

8. No. of beneficiaries:

40

9. Proposed activities for laboratory staff:

Seminar and workshop on: a. Chemical waste Management b. Laboratory equipment maintenance c. Handling of laboratory chemicals d. Cataloguing and stock-maintenance of chemicals

10. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):



Lectures on: a. Polymer Chemistry b. Inorganic Materials of Industrial Importance c. Computer Programming Basics (FORTRAN) d. Spectroscopic techniques e. Cosmetic Chemistry f. Pharmaceutical Chemistry g. Pesticide Chemistry

11. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Lectures on: a. Polymer Chemistry b. Inorganic Materials of Industrial Importance c. Computer Programming Basics (FORTRAN) d. Spectroscopic techniques e. Cosmetic Chemistry f. Pharmaceutical Chemistry g. Pesticide Chemistry

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	CHEMISTRY	01 Outreach Program 02 Student Field Visit	1.Seminar/Workshop 2.Laboratory Visit	30-40	August- September February-March

	2	CHEMISTRY	03 Student Project 04 Visiting Lectures	3.Departmental 4.Time to time lecture and training by experts	40 40	April According to the availability of recourse persons
	3	CHEMISTRY	05 Student-Teacher meet	5.Annual Departmental Seminar	40	At the end of one year course work

Proposed outreach activities for school teachers and college teachers per year:

Arrangements of Seminars on recent advances in Chemistry, different types of workshops on popular science writing, and science club - where faculty will be involved in scientific discussions among themselves, quizzes, social aspects and Environmental impacts etc

1. Department:

PHYSICS

2. Half page executive summary indicating relevance and expected outcome:

Yogoda Satsanga Palpara Mahavidyalaya a College located in the rural area of Purba Medinipur district. The locality of college is in remote village area where students are deprived of higher education, advancement and economy. The college gives the village students the opportunity so that they can get the advantage to gain knowledges & educational degree coming from such poor socio-economical background. The Physics department was established in 1986. The department comprises of collection of books in a departmental library and the Laboratory. The Departmental facilities include three Desktop computers, one Printers, one inverter with six cells Battery connected with two computers for students computer laboratory. All the equipments are functionally active and serving the necessity of both faculties and students. Besides that department have three laboratories one for general student and other two for honours students. Department have well equipped optics laboratory both for honours and general students. The Department conducts the remedial classes to help the students and all the faculty members to provide the study materials to the students for their better understanding. A no. of students have interest in higher education and scientific research. For that they are encouraged to attend seminars, conferences, interact with the renowned teachers from various Institutes and Universities. The need of the Project is to get the availability of a useful framework for hands on experimental education within the curriculum. It will be very much helpful for the students to get the opportunity to perform the practical of various experiments and computer language that enables them to understand theoretical physics. This type of hands-on experiment could motivate the students for basic scientific research. With the facility and advantage of DBT Star College Scheme, an atmosphere that inculcates scientific thinking can be expected with all kind of needs fulfilled for labo

3. Specific objectives:

- To provide hands-on experimental knowledge of theoretical Physics to the students.
- To provide hands on experiment of computer language that will help to solve real physical problem.
- To motivate the students for higher education.
- To provide better library facility to the students and teachers
- Students will be motivated to participate in various activities like workshops, student seminar, project work etc. Through these they will learn how to solve a real physical problem and what is the progression of Physics in the world.
- Provide opportunity to students face to face with eminent teachers and scientists related to the discipline from various Institutes and Universities.
- Provide Facility to the students and teachers to access various reputed National and International Journals.

4. Measures to be adopted to enhance bench skills of students, project work, summer training & industrial training:

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st (a) Year):

01 Attend/present paper at seminars/conferences 02 Attend Workshops 03 Hands-on training on different software like Matlab, Mathematica, Python, Maple etc.

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd (b) Year):

04 Attend/present paper at seminars/conferences 05 Attend Workshops 06 Two days inter college workshop on Python Programming

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd (c) Year):

07 One day seminar on Recent progress on Condensed Matter Physics 08 Attend/present paper at seminars/conferences 09 Attend Workshops

6. Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety issues:

The department will have to take proper bio-safety measures to conduct lab. For small scale project with independent study module to be encouraged. Attending IPR seminar in college would be necessary for the students for awareness.

7. Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:

- OTFT Characterization
- Measurement of Capacitance of insulating materials for TFT fabrication
- Solar cell Characterization
- Variation of Bandgap with temperature for semiconductor
- Measurement Of Magneto Resistance of different



materials • Electron Spin Resonance of magnetic materials. • Solve simple harmonic equation using OPAMP.

No. of beneficiaries:

50

9. Proposed activities for laboratory staff:

Staff activity: ? Active participation of laboratory staff in order to provide all technical support to run the laboratory properly ? To take care pf safety of students during laboratory hours. ? Cleaning of equipment to make it in working condition. Staff development programme: ? Lab technician would be encouraged to participate in various hands-on workshop of lab experiments. ? One-week hands on training on newly proposed experiments.

10. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Arrangement of Lecture series on Python programming, Numerical simulation, Holography, Nonlinear Optics, group theory.

11. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Arrangement of Lecture series on Python programming, Numerical simulation, Holography, Nonlinear Optics, group theory.

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	PHYSICS	01 Outreach Program 02 Student Training 03 Students bench skill development	1. Visit to research laboratories, educational sites 2. Training on Python, Matlab etc 3. Hands on training on practical, code writing.	50	December-January Febuary-March March-April
2	PHYSICS	04 Faculty Development Programme	Seminar, workshop or other development programme	50	May-July
3	PHYSICS	04 Visiting Lectures 05 Student-Teacher meet	4. Time to time lecture and training by experts 5. Annual Departmental Seminar	50	According to the availability of recourse persons At the end of one year course work

13. Proposed outreach activities for school teachers and college teachers per year:

* Arrangement of seminars, workshops on e-learning techniques, computer programming and use of different software. * Awareness Campaign towards education Post- pandemic. * For the school students: Science exhibition, Quiz Competition.

1. Department:

MATHEMATICS


2. Half page executive summary indicating relevance and expected outcome:

Yogoda Satsanga Palpara Mahavidyalaya is one of the oldest rural college in the district of Purba Medinipur under Vidyasagar University and has high demand for its academic environment and infrastructure with green campus, attracts a large number of students from the rural areas to pursue under-graduate courses in Sciences as well as Humanities. Mathematics is a particular discipline of basic science, was introduced in 1984. The Department has its own collection of books, journals, study materials and a well-equipped Computer Laboratory. The Departmental facilities include seventeen Desktop computers, three Printers, one inverter with six cells Battery connected with eight computers, and one LCD Projector. All the equipment is functionally active and serving the necessity of both faculties and students. The Department organises the remedial classes and practical classes for on hand practice to help the students and all the faculty members provide the study materials to the students for their better understanding. A large number of students keep interest in higher education and research. A huge number of pass-out students are engaged in the teaching profession, research activity and in others. In view of that students are encouraged to attend seminars, conferences, interact with the renowned teachers in various Institutes and Universities. The aim of the Project is to provide a useful framework for hands on experimental education within the curriculum. It will be great for the students getting the opportunity to do the practice of various software for solving realistic problems and they would be tutored to compare their results with the existing numerical and experimental data. Through the DBT Star College Scheme, we expect to provide an atmosphere that inculcates scientific thinking.

3. Specific objectives:

The Department of Mathematics on successful completion of the DBT Star College Scheme seeks to achieve the following program specific objectives ? Main objective is to strengthen the academic and physical infrastructure by providing sufficient lab facilities, proper guidance, inspiring and motivating teaching and learning techniques to the students, specially coming from the economically weaker section of society. ? Enrichment of the departmental library with sufficient number of good books and journals, sufficient number of computers with internet facility, will increase the source of knowledge for our students and faculty members which is the important and key factors for effective learning. ? To provide hands-on software experience (Like, Mathematica, Matlab etc.) to the students. ? To provide the concept of algorithm development and regular monitoring of designing/coding software development which can help the solving of the problem related with the mathematics. ? To improve the progression rate of the students to higher education and motivate them on research-oriented activity in the field of mathematics. ? To provide better library facility to the students and teachers. ? Students will be motivated to participate in various activities like workshops, student seminar/conference, project work etc. will make the learning process more joyful with huge knowledge. These knowledge-based activities increase their confidence level and strengthen personality. Through these they will learn different problem-solving techniques of different branch of Mathematics. ? Provide opportunity to students face to face with eminent teachers and scientists related to the discipline from various Institutes and Universities. ? Provide facility to the students and teachers to access various reputed National and International Journals.

Measures to be adopted to enhance bench skills of students, project work, summer training & industrial

 **training:**

 **Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st**

(a). Year):

Attend/present paper at seminars/conferences Attend Workshops on computational Mathematics Hands-on training on different software

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd

(b) Year):

ICT, C language, C++ language, Mathematica and Matlab training based workshop programmes attainment. Two days inter college workshop on Computational methods

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd

(c) Year):

One day seminar on Recent trend on advance mathematics and computation Participation in orientation programmes and refresher courses in various universities on various topics of mathematics. Attend several faculty development programme on Mathematics and different software organised by different University and Institution.

6. Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety issues:

Students are provided Standard operating procedure (SOP) to protect personal, laboratory & environmental exposure to maintain the use of hazardous materials or physical hazards. Attending IPR seminar in college would be mandatory for the students for awareness. For awareness of the students the following models related to biosafety and mathematics are considered.

(a) Preparing some pollution control mathematical model. (b) Formulate and solve some epidemic model in the pandemic situation. (c) Formulate some prey-predator model and check their stability using stability theory. (d) Develop algorithms for above mentioned models and obtain the results using Mathematica/ MATLAB software.

7. Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:

MATLAB theory and practical is in the prescribed curriculum in B.Sc Mathematics Hons Semester-III. Within the prescribed curriculum the following practical are conducted by the department with MATLAB and MATHEMATICA. ? Fitting of a polynomial. ? Optimum solution of unconstrained/ constrained objective function / objective functions with graphics. ? Non-linear differential equation solving. ? Knowledge of graphics on different function, curve tracing, solution of differential equations and different dynamical problems.

8. No. of beneficiaries:

70

9. Proposed activities for laboratory staff:

N/A

10. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Yes, some visiting faculties from various institutes are involving with the department to contact the MATLAB, C or C++ programme said practical or theoretical classes. Also they deliver lectures on Mathematical problems on Operational research, Numerical simulation, Bio-Mathematical problems and their applications and fuzzy set theory

11. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Yes, some visiting faculties from various institutes are involving with the department to contact the MATLAB, C or C++ programme said practical or theoretical classes. Also they deliver lectures on Mathematical problems on Operational research, Numerical simulation, Bio-Mathematical problems and their applications and fuzzy set theory

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	MATHEMATICS	01 Outreach Program 02 Student Training	1. Seminar/Workshop 2. Seminar/Workshop	30 50	December-February March-April
2	MATHEMATICS	3. Student Training	3.Mathematica and Matlab workshop	70	April--May,2023
3	MATHEMATICS	4. Visiting Lectures 5. Student-Teacher meet	4.Time to time lecture and training by experts 5.Annual Departmental Seminar	65 70	According to the availability of recourse persons At the end of one year course work

13. Proposed outreach activities for school teachers and college teachers per year:

- Arrangement of seminars, workshops on e-learning techniques, computer programming and use of different software. • Awareness Campaign towards education Post-pandemic. • For the school students: Science exhibition, Quiz Competition.

1. Department:

Computer Science

Half page executive summary indicating relevance and expected outcome:

The Department of Computer Science has always had well-trained and intellectual faculty members who have assisted their students in progressing to higher education. Many graduates of the Department of Computer Science are now employed at various research institutes and companies across the country. For Honours and General courses, the department has a laboratory. The laboratory area is equipped with a variety of critical machines, including individual desktop computers with internet access, scanners and printers, and projectors. Aside from laboratory facilities, the department offers students access to an extensive Seminar library. To assist students in preparing for higher education, the Department hosts student seminars, tutorial sessions, and homework assignments on a regular basis. Faculty in the department use a traditional chalkboard as well as an audio-visual system. Because of the current pandemic, the department is using the College's Learning Management System (LMS) portal and the Google Meet platform for online classes. Regular Teachers are also available for intellectual contact with students outside of class hours and during vacations. The Department plans to upgrade the laboratory's equipment by purchasing new instruments, a more modern variant of the current computer, as well as expensive graphics cards, processors, and consumables. The department's goal is to provide sufficient research facilities to all students enrolled in Computer Science courses (both Honours and General), as well as to organize various events such as workshops, industry visits, and lectures on current computer science topics. They will be taught how to think about, design, and carry out many types of research investigations within the institution and beyond. This will enable them to gain a fundamental understanding of research in the field of computer science. This would allow them to work on a variety of projects in the future.

3. Specific objectives:

The Department of Computer Science hopes to attain the following program-specific objectives after completing the DBT Star College Scheme. ? To equip students with hands-on software experience. ? To increase the number of students who progress to higher education. ? To improve library facilities for students and teachers. ? Students will be encouraged to participate in workshops, student seminars, project work, and other activities. They will acquire various problem-solving approaches from various branches of Computer Science through these. ? Provide students with the opportunity to meet with famous lecturers and scientists from various institutes and universities who are experts in the field. ? Students and teachers should have access to a variety of reputable national and international journals.

4. Measures to be adopted to enhance bench skills of students, project work, summer training & industrial training:

Sr.No.	Department	Student Measures Details	Year	No of beneficiaries
1	Computer Science	01 Students Seminars, Workshops, Laboratory Visit, Educational Field visit 02 Workshop on Software MATLAB 03 Student Project: A surveillance scene representation and Trajectory Anomaly Detection 04 Students Seminars, Workshops, Laboratory Visit, Educational Field visit 05 Workshop on Python 06 Student Project: A Comparative study of different anomaly techniques on videos 07 Students Seminars, Workshops, Laboratory Visit, Educational Field visit	2023	60
2	Computer Science	01 Students Seminars, Workshops, Laboratory Visit, Educational Field visit 02 Workshop on Software MATLAB 03 Student Project: A surveillance scene representation and Trajectory Anomaly Detection 04 Students Seminars, Workshops, Laboratory Visit, Educational Field visit 05 Workshop on Python 06 Student Project: A Comparative study of different anomaly techniques on videos 07 Students Seminars, Workshops, Laboratory Visit, Educational Field visit	2023	60

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(1st (a) Year):

01 Attend/present paper at seminars/conferences 02 Attend Workshops 03 Hands-on training on different software

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(2nd (b) Year):

04 Attend/present paper at seminars/conferences 05 Attend Workshops 06 Two days inter college workshop on Computational methods (Collaborating with Mathematics Department)

5 Measures to be undertaken to upgrade skills of faculty by participation in faculty improvement programme(3rd (c) Year):

07 One day seminar on Recent trend on advance computational techniques (Collaborating with Mathematics Department) 08 Attend/present paper at seminars/conferences 09 Attend Workshops

6. Appropriate modifications proposed in curriculum to cover laboratory exposure to students and IPR & biosafety issues:

Standard operating procedures (SOP) are offered to students to protect personal, laboratory, and environmental exposure while using hazardous products or physical dangers

7. Techniques/ Additional practicals proposed to be undertaken by the college (within prescribed curriculum of the university), practicals which could not be conducted earlier due to lack of equipment or costly consumables.

New equipment proposed to be purchased to be correlated with new additional practicals:


? Solving Different Problems in MATLAB and Python ? Working with New NVIDIA Graphics Card Using MATLAB and Python

8. No. of beneficiaries:


70

9. Proposed activities for laboratory staff:

Seminar and workshop on: a. Computer Maintenance; b. Laboratory Machine Handling; and c. Computer Equipment

 Cataloguing and Stock-Maintenance.

10. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

 Machine Learning, Python, MATLAB, and other research problems and their applications are covered in these lectures

11. Involvement of visiting faculty (details of lecture & practicals to be covered in each department):

Machine Learning, Python, MATLAB, and other research problems and their applications are covered in these lectures

12. Timelines for activities listed at 3-5 in each academic session indicating no. of proposed courses, no. of beneficiaries:

Sr.No.	Type of the activity	Type of the activity	Proposed Courses	No. of beneficiaries	Timelines
1	Computer Science	01 Outreach Program 02 Student Training	1. Seminar/Workshop 2. Seminar/Workshop	30 50	December-February March-April
2	Computer Science	03 Outreach Program 04 Visiting Lectures	3. Visit various Institutional Laboratory 4.From time-to-time lectures and training by experts	60 70	May According to the availability of recourse persons
3	Computer Science	05 Student-Teacher meet	5. Annual Departmental Seminar	70	At the end of one-year course work

13. Proposed outreach activities for school teachers and college teachers per year:

? Organizing seminars and workshops on e-learning methodologies, computer programming, and software application. ? Post-pandemic educational awareness campaign ? Science exposition and quiz competition for school children.

Part 6: Budget Details



Non Recuring Budget


Sr.No.	Department	Equipment Details	Unit Cost	Total Quantity	Total Cost
1	BOTANY	1. COMPOUND MICROSCOPE	24000.00	13	312000.00
2	BOTANY	2.Simple Microscope (ALMICRO)	4000.00	6	24000.00
3	BOTANY	3.Labomed Binocular Microscope	60500.00	2	121000.00
4	BOTANY	4.Incubator	18000.00	1	18000.00
5	BOTANY	5.ELISA reader	144000.00	1	144000.00
6	BOTANY	6.Spectrophotometer	100000.00	1	100000.00
7	BOTANY	7.Digital Centrifuge Machine	20000.00	1	20000.00
8	BOTANY	Gel Electrophoresis Unit	20000.00	1	20000.00
9	BOTANY	Electrophoresis Power Supply	24000.00	1	24000.00
10	BOTANY	Vertical/Horizontal Laminar Airflow Bench	145000.00	1	145000.00
11	CHEMISTRY	4 decimal Digital weight machine	87000.00	1	87000.00
12	CHEMISTRY	3 decimal Digital weight machine	75000.00	1	75000.00
13	CHEMISTRY	Digital Potentiometer	24000.00	2	48000.00
14	CHEMISTRY	UV Visible Spectrophotometer	340000.00	1	340000.00
15	CHEMISTRY	pH Meter	22500.00	2	45000.00
16	CHEMISTRY	Desktop Computer	42000.00	2	84000.00
17	CHEMISTRY	Conductivity meter	27000.00	2	54000.00
18	CHEMISTRY	Filtration Assembly with oil free vaccum pump	15000.00	2	30000.00
19	CHEMISTRY	Colorimeter	24000.00	2	48000.00
20	CHEMISTRY	Air Oven	50000.00	1	50000.00
21	CHEMISTRY	Distilled water Plant	55000.00	1	55000.00
22	CHEMISTRY	Melting and boiling point apparatus	30000.00	1	30000.00
23	CHEMISTRY	Muffle furnace (9500C)	14500.00	1	14500.00
24	CHEMISTRY	Muffle furnace (12000C)	21000.00	1	21000.00
25	CHEMISTRY	Magnetic stirrer with hot plate	13000.00	1	13000.00
26	CHEMISTRY	Rotary evaporator	44000.00	1	44000.00
27	CHEMISTRY	Reflux Condensor	3900.00	1	3900.00
28	CHEMISTRY	Rotary Pump	6500.00	2	13000.00
29	Computer Science	HP Desktop (Intel Core i5 Processor and Compatible Motherboard, 8 GB RAM, 240 GB SSD, 1TB HDD, Windows 10)	60500.00	6	363000.00
30	Computer Science	MSI GEFORCE RTX 3050 GAMING X 8GB GDDR6	35590.00	6	213540.00
31	Computer Science	MSI GEFORCE RTX 3050 GAMING X 8GB GDDR6	35590.00	6	213540.00
32	Computer Science	Laser Printer (HP LaserJet Pro MFP M329dw Multi-Function Monochrome)	31900.00	1	31900.00
33	Computer Science	Smart Interactive digital Whiteboard (CLEVERTOUCH, 78 inches)	140000.00	1	140000.00
34	Computer Science	Mat-Lab Software (Perpetual License)	155000.00	1	155000.00
35	Computer Science	RS PRO Network Outdoor CCTV Camera, 1945 x 1097 Resolution	24000.00	2	48000.00
36	MATHEMATICS	HP Desktop (Intel Core i5 Processor and Compatible motherboard , 8 GB RAM, 256 GB SSD, 1TB HDD, Windows 10)	62500.00	8	500000.00
37	MATHEMATICS	Laser Printer (HP LaserJet Pro MFP M329dw Multi-Function Monochrome)	27500.00	1	27500.00
38	MATHEMATICS	UPS+Inverter (LUMINOUS Cruze 2KVA Inverter with RC 18000 Battery(Two), Tubular Inverter Battery (150Ah))	42000.00	1	42000.00
39	MATHEMATICS	MatLab Software (Perpetual License)	164000.00	1	164000.00
40	MATHEMATICS	Mathematica Software (Perpetual License)	110000.00	1	110000.00
41	MATHEMATICS	Smart Interactive digital White board (CLEVERTOUCH, 78 inches)	140000.00	1	140000.00
42	MATHEMATICS	Microsoft 365 Academic Version (License)	5000.00	10	50000.00
43	MATHEMATICS	Almirah	25000.00	1	25000.00
44	PHYSICS	HP Desktop (Intel Core i5 Processor and Compatible motherboard , 8 GB RAM, 256 GB SSD, 1TB HDD, Windows 10)	62500.00	4	250000.00
45	PHYSICS	Laser Printer (HP LaserJet Pro MFP M329dw Multi-Function Monochrome)	31900.00	1	31900.00
46	PHYSICS	UPS+Inverter (LUMINOUS Cruze 2KVA Inverter with RC 18000 Battery(Two), Tubular Inverter Battery (150Ah))	35500.00	1	35500.00
47	PHYSICS	Four Probe Instrument with Temperature Controller	65000.00	2	130000.00
48	PHYSICS	Hall Effect Setup	85000.00	1	85000.00
49	PHYSICS	Frank Hertz Experimental Setup	47000.00	1	47000.00
50	PHYSICS	Measurement Of Magneto Resistance Setup	84000.00	1	84000.00
51	PHYSICS	Plancks Constant Apparatus	36000.00	2	72000.00
52	PHYSICS	LCR Meter	83000.00	1	83000.00
53	PHYSICS	Electro Spin Resonance Spectrometer	43000.00	1	43000.00
54	PHYSICS	Solar Cell Characteristics Apparatus	25000.00	1	25000.00
55	PHYSICS	Cathode Ray Oscilloscope	22500.00	1	22500.00
56	PHYSICS	Polarimeter	85000.00	1	85000.00
57	ZOOLOGY	1.LYZER Laboratory Microscope (LT-9B)	29900.00	8	239200.00
58	ZOOLOGY	2. OLYMPUS CX22 Binocular Microscope	65400.00	2	130800.00

	ZOOLOGY	3. Spectrophotometer	110000.00	1	110000.00
	ZOOLOGY	4. CENTRIFUGE	31500.00	1	31500.00
	ZOOLOGY	5. VORTEX	20000.00	2	40000.00
62	ZOOLOGY	6. MICROPIPETTE	45000.00	2	90000.00
63	ZOOLOGY	7. LAMINAR AIRFLOW CABINET	35000.00	2	70000.00
64	ZOOLOGY	8. ELISA READER	145000.00	1	145000.00
65	ZOOLOGY	9. GEL ELECTROPHORESIS APPARATUS	25000.00	1	25000.00
66	ZOOLOGY	10. CONDUCTIVITY METER	20000.00	1	20000.00
67	ZOOLOGY	11. TURBIDITY METER	20000.00	1	20000.00
68	ZOOLOGY	12. BEACON OCTA IPLUS DIGITAL COLORIMETER	58500.00	1	58500.00

Recurring Budget

Sr.No.	Department	Consumble Details	Consumble Unit Cost	Consumble Quantity	Consumble Cost	Contingency Details	Contingency Total Cost	Travel Details	Travel Cost
1	BOTANY	Chemicals, Botanical Specimens , dry specimFor performing Workshop, Seminar, projects, Faculty Development Programme.s, Permanent slides, Reagents, Herbarium sheets and electron micrographs. Books and journals, Photographs.	80000.00	3	240000.00	Contingency	45000.00	Travel & field visit	60000.00
2	CHEMISTRY	Books & Journals Consumables (Chemicals & Glassware)	68000.00	3	204000.00	Contingency	60000.00	Travel (within India)	21000.00
3	Computer Science	Books & Journals Consumables Grammarly Prices	55000.00	3	165000.00	Contingency	36000.00	Travel (within India)	75000.00
4	MATHEMATICS	Books & Journals Consumables for Software upgradation and others	55000.00	3	165000.00	Contingency	90000.00	Travel (within India)	60000.00
5	PHYSICS	Books & Journals Consumables	55000.00	3	165000.00	Contingency	60000.00	Travel (within India)	60000.00
6	ZOOLOGY	Laboratory chemicals, Antibodies, Reagents, Seminar, Workshop related, Project related, Faculty development program glass apparatus. Books & Journals	95000.00	3	285000.00	Contingency	30000.00	Travel & Field visit	60000.00

art 7: Declaration

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