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**Department of Physics**  
**Rishi Bankim Chandra Evening College**  
Naihati, North 24 Parganas, PIN - 743165, West Bengal, India  
Phone: (033) 2581-1281 ♦ Email: [physics@rbcec.in](mailto:physics@rbcec.in)

Ref. No. RBCEC/Phys/Vac/6

Date: 03.02.2022

To  
The **Principal**,  
Rishi Bankim Chandra Evening College,  
Naihati, West Bengal

Sub: *Proposal for Add on Course on Laboratory Skill Development*

Sir,

I am submitting herewith a proposal to conduct an Add-on Course on Laboratory Skill Development for the session 2021-22 by the Department of Physics. This course will be of new conceptual ideas and practical knowledge about the experimental skills in physics among our students.

Hope you will consider my application and kindly sanction the same.

Yours sincerely,

*Durjoyoti Hazra*

Head,  
Department of Physics

Enclosure: 1. Proposal and Curriculum of the course



## Proposal of the Add on Course on Laboratory Skill Development

### 1. Details of Course Proposed:

I. Name of the Course	<i>Add-on Course on Laboratory Skill Development</i>
II. Target Group	<i>2<sup>nd</sup> Semester UG General Students</i>
III. Duration of the Course	<i>30 Hours</i>
IV. Medium of Instruction	<i>English</i>
V. Intake Capacity	<i>20 (Twenty)</i>
VI. Evaluation	<i>Continuous Assessment and Presentation</i>
VII. Fees	<i>Nil</i>
VIII. Teaching Faculty	<i>Dr. Debojyoti Halder</i> <i>Assistant Professor, Department of Physics</i>

### 2. Details of Infrastructure needed for this course:

I. Classroom	<i>Laboratory available</i>
II. Books/Reading Materials	<i>Available in Central and Departmental Library</i>
III. Equipment	<i>All the necessary equipment needed are available in Physics Laboratory</i>
IV. Others	<i>Computer facility is available for students in EVNET and in the Department</i>

### 3. Scheme of Examination

Continuous Assessment	- 15 Marks
Group Discussion session	- 15 Marks
Presentation	- 20 Marks
Total	- 50 Marks

\*Pass Marks is 25 out of 50





#### 4. Syllabus and books for Laboratory Skill Development

##### Theory:

1. Soldering Materials and iron,
2. Basic principles and functions of Multimeters,
3. Basic circuit making,
4. Concept of L, C & R and their measurement using L-C-R meter,
5. Study of various functions of CRO,
6. Application of CRO for measurement of frequency, phase, voltage etc.

##### Practical:

1. Solder given components on a given soldering training board.
2. Measurement of resistance, capacitance, current and volage using a multimeter.
3. Open circuit and short circuit testing of a network circuit using a multimeter.
4. To assemble and testing of a fluorescent tube.
5. Measurement of L, C, R and Impedance of a given material in different frequencies using L-C-R circuits.

##### Books:

1. Electronics Fundamentals and Applications by D. Chattopadhyay, P. C. Rakshit
2. Integrated Electronics by J. Millman and C. Halkias
3. An Advanced Course in Practical Physics by D. Chattopadhyay, P. C. Rakshit



*Debasmita Halder*  
Signature of the course coordinator and Head

Head  
Department of Physics  
Miss Sankim Chandra Evening College  
Naihati 74 Parganas (N) WB



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Ref. No. *RBCEC/Phys/VAC/7*

Date: 09.02.2022

**NOTICE**

All the B. Sc. General 1<sup>st</sup> Semester students of session 2021-22 of our college is hereby informed that, the Department of Physics is going to organise an **Add-on Course on Laboratory Skill Development**.

There are 20 (Twenty) seats for this said course. Students willing to join the course are asked to register their names with Dr. Debojyoti Halder as early as possible. This course will be of new conceptual ideas and practical knowledge about the experimental skills in physics for them.

*[Signature]*  
Principal

*Debojyoti Halder*  
(Debojyoti Halder)  
Head, Department of Physics  
Head  
Department of Physics  
Rishi Bankim Chandra Evening College  
Naihati, 24 Parganas (N. W.B.)





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Ref. No. RBCEC/Phys/Vac/6

Date: 17.02.2022

**Add-on Course on Laboratory Skill Development**

**List of Admitted Students (2021-22)**

Sl. No.	Name of Student	Class	Roll No.	Signature
1	VIKASH RAJBHAR	B. Sc. General	20	Vikash Rajbhar
2	RUPESH KUMAR PRASAD	B. Sc. General	38	Rupesh Kumar Prasad
3	AKASH DAS	B. Sc. General	07	Akash Das
4	ANIRUDDHA SINGHA	B. Sc. General	13	Aniruddha Singha
5	SAGAR SANTRA	B. Sc. General	14	Sagar Santra
6	INDAR SHAW	B. Sc. General	15	Indar Shaw
7	BIJOY BHOWMICK	B. Sc. General	21	Rajatava Bose
8	RAJATAVA BOSE	B. Sc. General	25	Rajatava Bose
9	GOURAB DUTTA	B. Sc. General	27	GOURAB DUTTA
10	JAYJIT ROY	B. Sc. General	30	Jayjit Roy
11	SANKET CHATTERJEE	B. Sc. General	33	Sumit Chatterjee
12	KAMALESH SHAW	B. Sc. General	32	Kamalesh Shaw.
13	UMAR ALI	B. Sc. General	29	UMAR ALI
14	AAMIR HUSSAIN ANSARI	B. Sc. General	35	Aamir Ansari
15	BITHIKA BARMAN	B. Sc. General	17	Bilhika Barman
16	KOMAL SHAW	B. Sc. General	10	Komal Shaw
17	MD SHAMIM ANSARI	B. Sc. General	23	MD. Shamim Ansari
18	SUMITAVA ROY	B. Sc. General	16	Sumitava Roy

A total 18 students have been admitted in this course.



*Dibyajyoti Halder*

**Head  
Department of Physics**

**Head  
Department of Physics**  
Rishi Bankim Chandra Evening College  
Naihati, 24 Parganas (N) Dist. WB





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Ref. No. *RBCEC/Phy/Vac/9*

Date: 24.03.2022

**Add-on Course on Laboratory Skill Development**

**Result of Students (2021-22)**

Sl. No.	Name of Student	Class	Roll No.	Marks Obtained
1	VIKASH RAJBHAR	B. Sc. General	20	30
2	RUPESH KUMAR PRASAD	B. Sc. General	38	42
3	AKASH DAS	B. Sc. General	07	31
4	ANIRUDDHA SINGHA	B. Sc. General	13	42
5	SAGAR SANTRA	B. Sc. General	14	35
6	INDAR SHAW	B. Sc. General	15	46
7	BIJOY BHOWMICK	B. Sc. General	21	35
8	RAJATAVA BOSE	B. Sc. General	25	42
9	GOURAB DUTTA	B. Sc. General	27	30
10	JAYJIT ROY	B. Sc. General	30	38
11	SANKET CHATTERJEE	B. Sc. General	33	38
12	KAMALESH SHAW	B. Sc. General	32	32
13	UMAR ALI	B. Sc. General	29	45
14	AAMIR HUSSAIN ANSARI	B. Sc. General	35	45
15	BITHIKA BARMAN	B. Sc. General	17	37
16	KOMAL SHAW	B. Sc. General	10	46
17	MD SHAMIM ANSARI	B. Sc. General	23	32
18	SUMITAVA ROY	B. Sc. General	16	31



*Dibyajyoti Halder*

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Ref. No. *RBCEC/Physics/AE/10*

Date: 05.04.2022

**Report on the Add-on Course on Laboratory Skill Development**

In the Academic Session 2020-21 an Add-on Course on Laboratory Skill Development was conducted by the Department of Physics. 18 (Eighteen) students were admitted for this Add-on course. Through this course students get knowledge about various skills in Laboratory techniques in Physics. Assessment was done in the form of Continuous Assessment and Presentation. The list of students for the add-on course is as below:

Sl. No.	Name of Student	Class	Roll No.	Remarks
1	VIKASH RAJBHAR	B. Sc. General	20	Successfully Completed
2	RUPESH KUMAR PRASAD	B. Sc. General	38	Successfully Completed
3	AKASH DAS	B. Sc. General	07	Successfully Completed
4	ANIRUDDHA SINGHA	B. Sc. General	13	Successfully Completed
5	SAGAR SANTRA	B. Sc. General	14	Successfully Completed
6	INDAR SHAW	B. Sc. General	15	Successfully Completed
7	BIJOY BHOWMICK	B. Sc. General	21	Successfully Completed
8	RAJATAVA BOSE	B. Sc. General	25	Successfully Completed
9	GOURAB DUTTA	B. Sc. General	27	Successfully Completed
10	JAYJIT ROY	B. Sc. General	30	Successfully Completed
11	SANKET CHATTERJEE	B. Sc. General	33	Successfully Completed
12	KAMALESH SHAW	B. Sc. General	32	Successfully Completed
13	UMAR ALI	B. Sc. General	29	Successfully Completed
14	AAMIR HUSSAIN ANSARI	B. Sc. General	35	Successfully Completed
15	BITHIKA BARMAN	B. Sc. General	17	Successfully Completed
16	KOMAL SHAW	B. Sc. General	10	Successfully Completed
17	MD SHAMIM ANSARI	B. Sc. General	23	Successfully Completed
18	SUMITAVA ROY	B. Sc. General	16	Successfully Completed

All the enrolled students have successfully completed the value-added course.



*Dibyajyoti Halder*  
Head  
Department of Physics

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Department of Physics  
Rishi Bankim Chandra Evening College  
Naihati, 24 Parganas (N), W.B.



**Department of Physics**  
**Rishi Bankim Chandra Evening College**  
**Naihati, West Bengal, India**



***Certificate for Completion***

This is to certify that, **ANIRUDDHA SINGHA, 2<sup>nd</sup>**  
**Semester B. Sc. General Student of Rishi Bankim**  
**Chandra Evening College, Naihati** has successfully  
completed this Value Added Course on  
"Laboratory Skill Development".

*Debjyoti Halder*

Head  
Department of Physics

*Dasgupta*

Principal



Add-On Course on  
"Laboratory Skill  
Development"

# RISHI BANKIM CHANDRA

Class Attendance

Session ..... 20.....

Roll No	NAME	1	2	3	4	5	6	7	8	9	10	11	12
07	Akash Das	1	2	3	4	5	6	7	8	9	10	11	12
10	Komal Chaw	1	2	3	4	5	6	7	8	9	10	11	12
13	Aniruddha Singha	1	2	3	4	5	6	7	8	9	10	11	12
14	Sagar Santra	1	2	3	4	5	6	7	8	9	10	11	12
15	Indar Shaw	1	2	3	4	5	6	7	8	9	10	11	12
16	Sumitara Roy	1	2	3	4	5	6	7	8	9	10	11	12
17	Bitika Barman	1	2	3	.	.	.	4	5	6	7	8	9
20	Vikash Rajbhar				1	2	3	4	5	6	7	8	9
21	Bijoy Bhownick				1	2	3	4	5	6	7	8	9
25	Rajatara Bose				1	2	3	4	5	6	.	.	.
27	Gourab Dutta				1	2	3	4	5	6	7	8	9
29	Umar Ali				1	2	3	4	5	6	7	8	9
30	Tajjit Roy							4	5	6	7	8	9
32	Kamlesh Shaw							4	5	6	7	8	9
33	Sanket Chatterjee							4	5	6	7	8	9
35	Aamir Hussain Ansari							4	5	6	7	8	9
38	Rupesh Kumar Prasad							4	5	6	7	8	9
43	Md. Samim Ansari	.	.	.	.	.	.	.	.	.	1	2	3

# EVENING COLLEGE, NAIHATI

Register

Class.....Year.....Section.....

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total No. of Lectures Attended	Delivered
.	.	.	13	14	15	16	17	18	19	20	21	.	.	.	22	23	24	.		
13	14	15	16	17	18	19	20	21	22	23	24	.	.	.	.	.	.	.		
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	.	.	.	.		
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	.	.	.	.		
13	14	15	16	17	18	19	20	21	22	23	24	.	.	.	.	.	.	.		
.	.	.	13	14	15	.	.	.	16	17	18	19	20	21	22	23	24	.		
13	14	15	16	17	18	.	.	.	19	20	21	.	.	.	.	.	.	.		
10	11	12	13	14	15	.	.	.	16	17	18	.	.	.	19	20	21	.		
10	11	12	13	14	15	.	.	.	.	.	.	16	17	18	19	20	21	.		
.	.	.	7	8	9	10	11	12	13	14	15	16	17	18	.	.	.	.		
10	11	12	13	14	15	16	17	18	.	.	.	19	20	21	22	23	24	.		
10	11	12	13	14	15	.	.	.	16	17	18	19	20	21	.	.	.	.		
10	11	12	13	14	15	16	17	18	.	.	.	19	20	21	.	.	.	.		
.	.	.	10	11	12	13	14	15	16	17	18	.	.	.	19	20	21	.		
10	11	12	13	14	15	16	17	18	.	.	.	19	20	21	22	23	24	.		
.	.	.	10	11	12	13	14	15	16	17	18	19	20	21	.	.	.	.		
10	11	12	13	14	15	16	17	18	.	.	.	.	.	.	19	20	21	.		
4	5	6	7	8	9	10	11	12	.	.	.	13	14	15	16	17	18	.		