Siliguri Institute of Technology Department of Engineering and Technology

Notification for Registration in the Bridge course for the AY 2023-24

This is to inform to all the aspirants that Department of Engineering Sciences and Humanities

(DESH) of Siliguri Institute of Technology (SIT) is going to conduct a 30 hours (02 weeks)

bridge course for the academic year 2023-24.

Aims and Objectives: The proposed bridge course is to bridge the gap between the subjects

studied in 10+2 level and subjects they will be studying in engineering graduation course.

Interested candidates may register themselves through the link provided below:

**Registration Link:** 

https://docs.google.com/forms/d/e/1FAIpQLSc4IuwHnUvIdOOX-Uvjbl85Zea-QiCAv47Kz PmgnGZQcr1ww/viewform?usp=pp\_url

Certificate will be issued to all the candidates after completion of the course.

Dr. Jayanta Dutta

Associate Professor, DESH & Course Coordinator, Bridge Course, AY 2023-24

Contact No. 9163636422

**Dr. Debasmriti Bhattacharjee** HOD, DESH, SIT

D. Bhattacherje

# **General Instructions**

The students coming to the college campus should strictly follow the rules and regulations:

- 1. In order to maintain the decorum of the college, the students coming for the Bridge course should maintains the proper discipline and not create any chaos or confusion amongst others.
- 2. No any transportation facility will be provided to the students while coming to the college or while leaving.
- **3.** The college does not provide any Fooding or Lodging, so no queries for the same will be entertained.
- **4.** The students coming for the Bridge course will not be able to use the Canteen due to the 1<sup>st</sup> year protocol. No permission shall be given in any way to have food there.

5. Reporting Time: 10.00 AM.

Dr. Jayanta Dutta

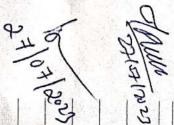
Associate Professor, DESH & Course Coordinator, Bridge Course, AY 2023-24 Contact No. 9163636422

**Dr. Debasmriti Bhattacharjee** HOD, DESH, SIT

D. Bhattacherje

# SILIGURI INSTITUTE OF TECHNOLOGY Department of Engineering Sciences & Humanities ROUTINE FOR BRIDGE COURSE 2023-2024 (SEC-I, SEC-II & SEC-III)

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MATHEMATICS   PHYSICS   ENGLISH   OBJECTIVE TYPE TEST   OBJECTIVE	ROOM NO.   DAY / TIME   10.15AM-11.00AM   11.00AM-11.45AM   11.45AM-12.30PM	INTRODUCTION TO EN	PHYSICS (BAD)	ENGLISH (RCV)	(SKS/RS)		D-101	SEC-I
MATHEMATICS   PHYSICS   ENGLISH   OBJECTIVE TYPE TEST   OBJECTIVE	ROOM NO.   DAY / TIME   10.15AM-11.00AM   11.00AM-11.45AM   11.45AM-12.30PM	PHYSICS (BAD	ENGLISH (RC)	CHEMISTRY (SKS/RS)	MATHEMATICS(SGH)		D-104	SEC-III
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SEC-III	D-104	DAY-8	INTRODUCTION TO ENGG. (EE DEPT.)	INTRODUCTION TO ENGG.(ECE DEPT.)	ENGLISH (RC)	CHEMISTRY SKS/RS
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SEC-II	D-201	DAY-9	MATHEMATICS(JD)		ENGLISH (HR)	INTRODUCTION TO ENGG.(ECE DEPT.)
SEC-III	D-104		ENGLISH (RC)	INTRODUCTION TO ENGG.(CSE DEPT.)	CHEMISTRY (SKS/RS)	INTRODUCTION TO ENGG.(EE DEPT.)

SECTION	ROOM NO.	DAY / TIME	10.15AM-11.00AM	11.00AM-11.45AM	11.45AM-12.30PM	12.30PM-1.15PM
SEC-I	D-101		OBJECTIV	E TYPE TEST	OBJECTIV	E TYPE TEST
			MATHEMATICS	PHYSICS	ENGLISH	CHEMISTRY
SEC-II	D-201	DAY-10	OBJECTIV	E TYPE TEST	OBJECTIV	E TYPE TEST
BOTH TO SE		l I	MATHEMATICS	PHYSICS	ENGLISH	CHEMISTRY
SEC-III	D-104	200.08	OBJECTIV	E TYPE TEST	OBJECTIVE	TYPE TEST
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Associate Professor, DESH &

Course Coordinator, Bridge Course, AY 2023-24

Ma7/07/2027

Dr. Debasmriti Bhattacharjee HOD, DESH, SIT

DETAILS ON TEACHER ALLOCATION FOR BRIDGE COURSE

	COURSE NAME	SI no.	Name of Faculty	Contact No.	Abbreviated Name		
A CONTRACTOR	TO A PROPERTY AND A STATE OF THE STATE OF TH	San 15-1 (15)	Dr. Jayanta Dutta	9433469885	JU	The state of the s	
		2	Dr. Debasmriti Bhattacherjee	8637590367	DB		
	MATHEMATICS	3	Mr. Soumendu Golui	9051144905	SG		AT THE PERSON.
The state of the s		4	Dr. Samit Ghosh	8927884125	SGH		The same of the same
		5	Dr. Mandabi banerjee	8902563770	MB		The second second
	PHYSICS	1	Dr. Banani Adhikari (Das)	8617470795	BAD		
		1.0	Dr. Susanta Kumar Saha	9434685675	SKS		
	CHEMISTRY	2	Dr. Rabindranath Singha	8972253384	RS		
		1 1	Ms. Rimni Chakravarty	7679363235	RCV		
		2	Mr. Rajeeb Chetri	8597773556	RC		
3 4535	ENGLISH	. 3	Mr. Hrishikesh Roy	8509297821	HR		
	INTRODUCTION TO ENGINEERING	1	As A	Allotted by the Respective Depa	rtment		
2 100 11	Electrical	2	Dr. Arup Das	9475673337	AD	ues ues	
	Engineering INTRODUCTION TO	1	Anupam Mukherjee	94771754222	AM .		
	INTRODUCTION TO ENGINEERING (IT)	4	Dr. Sirshendu Sekhar Ghosh	9955529117	SSG	20 2 20 2 30 24 3	

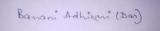
# **Department of Engineering Sciences and Humanities**

### **Physics Section**

### Syllabus of Physics for the proposed Bridge Course for AY 2023-24

Module	Topic	Content	Methodology	Lecture Hours
Basics of	OL: C. T.		Test will be conducted in	
Physics	ObjectiveType Test		Pen and	01
	1 est		Paper to identify the	
			learner's	
			grasp	
			on the subject.	
_		Rotational motion,	Smart Board and	
1	Classical Mechanics	Torque and angular	Chalk and talk	
		momentum,		01
		Principle of		
		moments (Moment		
		of Inertia), Radius		
		of Gyration		
		Elastic behaviors of		
	<b>Mechanical Properties</b>	solids, Hooke's	Chalk and talk	0.4
2	of Solids and Fluids	Law, Young's		01
		Modulus, Shear		
		Modulus, Bulk		
		Modulus, Applications of		
		Elastic behaviors of		
		materials		
		11140011410		
		TYPES OF	Smart Board and	
3	Waves and	WAVES,	Chalk and talk	
	Oscillations	Superposition of		01
		Waves, Reflection		
		and Refraction,		
		Standing Waves		
		and Normal Modes		

4	Wave Optics	Interference of light, Photons	Smart Board and Chalk and talk	01
5	Atomic and Nuclear Physics	Atomic Theory by J. J Thompson, Atomic Theory by Ernest Rutherford, Atomic Theory by James Chadwick, Discovery of the Neutron, Bohr's Postulates	Smart Board and Chalk and talk	02
6	Modern Physics	Concepts of duality and matter, de-Broglie Hypothesis, Davisson Germer's Experiment.	Smart Board and Chalk and talk	02
Basics of Physics	Term EndTest Test		Test will be conducted in Pen and Paper to judge the progress on the subject.	01



Dr. Banani Adhikari (Das) Subject Coordinator, Physics DESH, SIT 14.07.2023

# Department of Engineering Sciences & Humanties, Chemistry Section Bridge Course Curriculam & Lecture Plan: Odd Sem 2023

	Module 1: Coordination Chemistry	
Lecture 1	Importance of coordination chemistry, Types of complexes,	
Lecture 1	Classification of Ligands.	
Lecture 2	Crystal Field Theory to explain nature of bonding in octahedral	
Lecture 2	complexes.	
	Module 2: Organic Chemistry	
	Introduction to Reaction Mechanism: Carbocations: Generation,	
Lecture 3	stability, reactions and applications in synthetic organic	
	chemistry, Exercise.	
Lecture 4	Free Radicals: Generation, stability, examples and applications	
Lecture 4	in synthetic organic chemistry, Exercise.	
	Module 3: Thermodynamics and Equilibrium	
Lecture 5	Basic Concepts of Thermodynamics & 1st Law of	
Lecture 5	Thermodynamics.	
Lecture 6	Concepts of Equilibrium & Acids Base Theory.	
	Module 4: Electrochemistry	
Lecture 7	Electrochemical Cell.	
Lecture 8	Ionic Conductance.	
	Module 5: Chemical Kinetics	
Lecture 9	Reaction Rate, Order and Molecularity of Reactions.	
Lecture 10	Differential & Integrated Rate Equation.	

# **Department of Engineering Sciences and Humanities**

## **Mathematics Section**

### Syllabus of Mathematics for the proposed Bridge Course for AY 2023-24

Module	Topic	Content	Methodology	<b>Lecturer Hours</b>
Basics of Mathematics	Objective Type Test		Test will be conducted in Pen and Paper to identify the learners grasp on the subject.	01
1	Set, Relations and Mapping	Set Theory: Definition and Representation Types of Sets Operation on Sets Relations: Definition Types of Relations Partial order and Equivalence Relations.	Lectures and Practice	01
		Functions: Definition and classification Types of functions Composition and Inverse of functions.	Lectures and Practice	01
2	Differential and	Function: Limits, Continuity, Differentiability.	Lectures and Practice	01
	Integral Calculus	Riemann Integrals	Lectures and Practice	01
3	Matrices and	Types of Matrices, Operations on Matrices, Determinants and Cofactors, Inverse of a Square Matrix.	Lectures and Practice	01
3	Determinant	Rank of Matrix, Elementary row / column operations, System of Linear Equations.	Lectures and Practice	01

4	Differential Equations	Order, Degree, Formation of differential equations of first order, Differential Equations reducible to linear form, Exact Differential Equation.	Lectures and Practice	01
		Integrating factor, Differential equations of the first order but not of the first degree, Clairaut's equation, Initial value problem.	Lectures and Practice	01
Basics of Mathematics	Term End Test Test		Test will be conducted in Pen and Paper to judge the progress on the subject.	01

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Dr. Jayanta Dutta Subject Coordinator, Mathematics DESH, SIT

# Department of Engineering Sciences and Humanities Humanities Section

# English Syllabus for the proposed Bridge Course for AY 2023-24

Module	Торіс	Content	Methodology	Lecture Hour
Basics of English	Objective Type Test		Test will be conducted in Pen and Paper to identify the learners grasp on the subject.	01
1	Grammar: Correction of Errors in	Sentence errors: Tenses and Speech – Direct and Indirect	Lecture and Practice	01
	Sentences 1	Sentence errors: Noun - Pronoun Agreement	Lecture and Practice	01
2	Grammar Practice: Correction of Errors in	Sentence errors: Parallelism and Modals	Lecture and Practice	01
2	Sentences 2	Sentence errors: Subject – verb agreement	Lecture and Practice	01
3	Reading	Strategies for Reading Comprehension (Practicing Non Technical Texts)	Lecture and Practice	01
	Comprehension 1	Practicing Descriptive/ Narrative Paragraphs	Lecture and Practice	01
4	Reading Comprehension 2	Practicing Analytical/ Argumentative paragraphs	Lecture and Practice	01
4	Communicate in Person (The Power of Face to Face Connections)	Giving a short introduction to the class	Lecture on Pronunciation, voice modulation and clarity, body language while presenting	01
Basics of English	Term End Test		Test will be conducted in Pen and Paper to identify the learners grasp on the subject.	01

### Siliguri Institute of Technology Department of Electrical

# Introduction to Engineering-Electrical Engineering Syllabus of Electrical Engineering for the proposed Bridge Course for AY 2023-24

Date: 20.06.2023

Module	Topic	Content	Methodology	Lecture Hours
1	Current Electricity	Resistance,	Lectures and	01
		Inductance,	Practice	
		Capacitance, AC-		
		DC, Power, Power		
		Factor, Ohm's		
		Law		
		KCL and KVL,	Lectures and	01
		Loop Analysis,	Practice	
		Magnetic Effects		
		of Current and		
		Magnetism		

Dr.Arup Das

HOD

Department of Electrical Engineering

Siliguri Institute of Technology

# SILIGURI INSTITUTE OF TECHNOLOGY

# DEPARTMENT OF CIVIL ENGINEERING CIVIL ENGINEERING SECTION

### SYLLABUS OF CIVIL ENGINEERING FOR THE PROPOSED BRIDGE COURSE FOR AY 2023-24

Module	Topic Content	Methodology	<b>Lecturer Hours</b>
1	<ol> <li>Basic of Civil Engineering</li> <li>Measurement techniques</li> </ol>	Lectures and Practice	1
2	<ol> <li>Introduction to Civil Engineering drawing &amp; Basics of AUTOCAD</li> <li>Lab visit of Civil Engineering department</li> </ol>	Lectures and Practice	1

### **Department of Engineering Sciences and Humanities**

### Assessment Methodologies of the Bridge course for the Academic year 2023-24

### A. Procedure for objective type test:

An objective type test will be conducted on the following subjects on the Day1 of the bridge course schedule to judge the learning level of the provisionally admitted B.Tech 1<sup>st</sup> year students for academic year 2023-24

- 1. Physics
- 2. Chemistry
- 3. Mathematics
- 4. Commutation skills

The other details of the objective type test are as follows:

Full Marks: 20 Duration: 30 Minute

### B. Procedure for term end examinations:

At the end, term end examination will be held on the Day 10 of the bridge course schedule. The term end examination will be held on the following subjects

- 1. Physics
- 2. Chemistry
- 3. Mathematics
- 4. Commutation skills

The other details of the term end examinations are as follows:

Full Marks: 20 Duration: 30 Minute

### C. Certificates:

- 1. Participation certificate will be issued to the aspirants who were participated in the bridge course for the academic year 2023-24.
- 2. Successfully completion certificate will be issued who secured at least 40% marks in aggregate in the term end examination on Day 10 and whose overall attendance is at least 75%.

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Dr. Jayanta Dutta

Associate Professor, DESH & Course Coordinator, Bridge Course, AY 2023-24

**Dr. Debasmriti Bhattacharjee** HOD, DESH, SIT

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