#### **INDUCTION PROGRAMME 2019**

Department of Applied Science, Guru Nanak Dev Engineering College, Ludhiana- 141006, Punjab (INDIA) (22/07/2019 to 06/08/2019)

All the students of 1<sup>st</sup> year B.Tech- 2019 (ME, PE, EE, ECE, CE, IT, CSE) participated in the Induction Program from 22/07/2019 to 06/08/2019 as per the following schedule:

S. No.	Time	Activity	Venue
		22/07/2019	
1.	8.00 am - 9.30 am	Path	Gurdwara Sahib
2.	10.00 am - 12.00 noon	Expert Lecture by Prof. Ravinder Kaur (Director, Student welfare from PAU Ludhiana)	Auditorium
		& Dr. Surinderbir Singh (Ex- Principal, GNDEC Ludhiana)	
3.	12.00 noon - 1.00 pm	LUNCH BREAK	
4.	1.00 pm - 3.00 pm	Meeting with mentors	Auditorium
5.	3.00 pm - 4.00 pm	Movie	Auditorium
		23/07/2019	
1.	9.00 am - 10.30 am	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
2.	10.30 am - 12.00 noon	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
3.	12.00 noon - 1.00 pm	LUNCH BREAK	
4.	1.00 pm – 2.30 pm	Expert Lecture by Internal members (Dr. K.S. Gill, Dean Academics)	Auditorium
5.	2.30 pm - 4.00 pm	Expert Lecture by Internal members (MOOC's Mr. Lakhvir Singh Khana)	Auditorium
6.	4.00 – 4.30 pm	Movie	Auditorium
0.		24/07/2019	
1.	9.00 am - 10.30 am	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
2.	10.30 am - 12.00 noon	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
3.	12.00 noon - 1.00 pm	LUNCH BREA	
4.	1.00 pm - 2.30 pm	Expert Lecture (NCC & NSS)	Auditorium
5.	2.30 pm - 4.00 pm	Expert Lecture (SELP & Sports)	Auditorium
6.	4.00 – 4.30 pm	Movie	Auditorium
		25/07/2019	A - 1:40
1.	9.00 am - 10.30 am	Expert Lecture by Prof. Gursharn	Auditorium

		Singh Randhawa on "How to prepare for competitive examinations"		
2.	10.30 am - 12.00 noon	Expert Lecture by Prof. Gursharn Singh Randhawa	Auditorium	
3.	12.00 noon - 1.00 pm	LUNCH BREAK		
4.	1.00 pm – 2.30 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
5.	2.30 pm - 4.00 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
		26/07/2019		
1.	9.00 am - 10.30 am	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
2.	10.30 am - 12.00 noon	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
3.	12.00 noon - 1.00 pm	LUNCH BREAK		
4.	1.00 pm – 2.30 pm	Expert Lecture by Mr. Sony Goyal on "How to successful in life"	Auditorium	
5.	2.30 pm - 4.00 pm	Expert Lecture by Mr. Sony Goyal on "How to prepare for competitive examinations"	Auditorium	
		29/07/2019		
1.	9.00 am - 10.30 am	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
2.	10.30 am - 12.00 noon	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
3.	12.00 noon - 1.00 pm	LUNCH BREA	\K	
4.	1.00 pm – 2.30 pm	Expert Lecture by Dr. Inderjit Singh on "Behaviour Modification"	Auditorium	
5.	2.30 pm - 4.00 pm	Expert Lecture by Internal member (Dr. Akshay Girdhar, CEO)	Auditorium	
		30/07/2019		
1.	9.00 am - 10.30 am	Expert Lecture by Mr. Mohit Sharma on "How to access E- resources"	Auditorium	
2.	10.30 am - 12.00 noon	Expert Lecture by Prof. Brahm Jagdish Singh on "Teaching of Guru Nanak Dev ji"	Auditorium	
3.	12.00 noon - 1.00 pm	LUNCH BREAK		
4.	1.00 pm – 2.30 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium	
5.	2.30 pm - 4.00 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditoriu	
		31/07/2019		
1.	9.00 am - 10.30 am	Motivational Lecture by Prof. Gursharn Singh	Auditorium	

2.	10.30 am - 12.00 noon	Expert Lecture by Mr. Sarabjeet Singh	Auditorium
3.	12.00 noon - 1.00 pm	LUNCH BREAK	
4.	1.00 pm – 2.30 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
5.	2.30 pm - 4.00 pm	Bridge courses/ Activity	Class rooms/ Workshop/ Auditorium
		01/08/2019	
1.	9.00 am - 4.00 pm	Cultural Activity (Mr. Sarabjeet Singh and Mr. Harjit Singh act as Judges)	Auditorium
		02/08/2019	
		02/00/2017	
1.	8.00 am - 5.00 pm	One day Trip	Sultanpur Lodhi
1.	8.00 am - 5.00 pm		Sultanpur Lodhi
1.	8.00 am - 5.00 pm	One day Trip	Sultanpur Lodhi Auditorium
		One day Trip 05/08/2019	

Schedule of Induction program, bridge courses with report and list of mentors also attached.

With great regards NAAC Departmental Co-ordinator

#### Bridge courses and Activities of B.Tech. 1st year

During the Induction Program, different types of activities and Bridge courses are conducted by Applied Science Department for the 1<sup>st</sup> year students of B.Tech (as per the attached Teacher and branch Schedule).

Bridge courses are taught by subject teachers of Physics, Chemistry, Mathematics, English and PEEM. During these courses, all the students of B.Tech 1<sup>st</sup> year activity attended the classes. Physics taught by Dr. Harpreet Kaur, Dr. Randhir Singh and Ms. Kuldeep Kaur they covered the topics like; Introduction to Del operator, fields and their properties, Curl, Divergence, gradient, Stoke's theorem, *etc.* Teachers of Chemistry (Ms. Mandeep Kaur, Dr. Rajvir Kaur and Mr. Karan Bhalla) covered the topics like; Water Chemistry, Basics of Electrochemistry, Basics of Thermodynamics, transition metals, *etc.* Topics of Mathematics taught by Dr. D. S. Pathania, Dr. Rupinderjit Kaur and Mr. Sukhminder Singh, such as; Set theory, Relation, Function, Infinite series, Basics of multiple integral, Differential equations *etc.* Contents for English (Mr. Amandeep Singh Bal, Ms. Ramanpreet Kaur) are Importance of communication skills, carrier building, speaking, writing *etc.* PEEM taught by Ms. Saloni and topic of PEEM like, Basic introduction to Economics and management, knowledge about various terms used in both the modules.

#### **Bridge Course Contents**

The contents of the Bridge Course are as follows:

- <u>Introduction</u>: Details of Pattern of House Test and Final Examination. Attendance rules. Importance of hard work, discipline and punctuality.
- Career Building: How to build a successful career?
- English Language: History, development and other important facts.
- <u>Vocabulary</u>: How can vocabulary be improved? Its importance in personal and professional life.
- Fluency: How can fluency be gained in a foreign language?
- Writing Skills: How can grammatical mistakes be avoided in writing? Importance of punctuation.

Amandeep Singh Bal
Asst. Professor of English
Dept. of Applied Science

18 September 2019

#### **BRIGDE COURSE CONTENTS**

The contents of bridge course are as follows:-

- Water Chemistry: Introduction, hardness of water, sludge, scale formation, priming, foaming, boiler corrosion, softening of water, lime soda process, zeolite method and ion exchange process, purification of water, desalination method, reverse osmosis and electrodialysis, disinfection and break point chlorination
- Electrochemistry: Oxidation, reduction, oxidant and reductant, redox reaction, electrochemical cell and electrolytic cell, electrochemical series, Nernst equation and its applications
- 3. Atomic and Molecular Structure : Introduction to d block elements, semiconductors n type and p type, magnetic properties

18th September 2019

Assistant Professor

Chemistry

Applied Science Department

## CONTENT OF BRIDGE COURSE

- 1. Introduce the students about the syllabus of Engg. chemistry.
- 2. Différence b/n Organic, Inorganic and. Physical chemistry.
- 3. Desalination of Water
- 4. Basics of stereochemistry
  - 5. Basics of Thermochemistry & chemical Equilibria.

Mandeep kaur.

### Content & Brudge Course (Mothematics)

1) Pailmenties (Set., Complex Number)

2) Infinite Sours (Basic)

3) Basic of Multiple Julyral

### Bridge Course contents (Physics)

Introduction to Del operator, fields and their properties, curl, divergence, gradient, Stokers theorem, Gaus's divergent theorem and numerical problems of Vector calculus.

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### PEEM. - HSMC-103

Content covered in bridge course (Industion)

1. Basic Introduction to Economies.

and Monagement.

2. Knowledge about various terms used in both the medules.

### Content of Clarses held during Bridge Course', (English)

- 1. Parts of Speech
- 2: Importance of Communication Skills
- 3. Speaking
- 4. Wouting
- 5. Poresentation Shills

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BRIDGE COURSE CONTENTS (PHYSICS)

Introduction to Del operator, fields and their properties, curly divergence, gradient, Stokes theorem, brauss's Divergence theorem, and numerical problems of vector Calculus.

DO HARPREET KAUR GREHAL

### Borielge Course Contents (CHEMISTRY)

The contents of Boudge Course are as Follows:

- Introduction: Chemistry in everyday life, Bronches of Chemistry and their impostance, Engg. Chemistry For B. Tech Etudents.
- 2) Water Chemistry: Types of pollution, Major problems of water pollution & other environmental issues.

  Toucetment methods
- 3) Basics of Periodic Table: (d-block elements, Mulecular orbital theory. Electronic Configuration
- 4) Basis of Electoruchemistry & Thermutynamics

Don. TRADVIR KAUR (Assistant Port)

DEPT. OF APPLIED Scient

# # Contemb of Bridge Course

- 1 In broduction of syllabus
  of mathematic-1 (BSC-103)
- Dépuitz meer différential
- Bemoullib linear differential equation.
- 4) Que sims bassel om leibnitz Inicar differential equation.
- (5) Quistions based on Bernoulli's linear differential equation.

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Applied science

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# Contents of classes held during Bordge course (Mathematics)

- 1. Set Theory, Relations and functions
- 2. Differentiation
- 3. Integration
- 4. Differential Equations
- 5. Mytrices and determments

Rupmdergit kaur 1819/19