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# **Model Curriculum for undergraduate Degree Course in Computer Science (AKTU)**

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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
**NELSON MANDELA MARG, Vasant Kunj, New Delhi – 110070**  
**[www.aicte-india.org](http://www.aicte-india.org)**

## MESSAGE

## **PREFACE**

## Committee for Model Curriculum

S.NO.	Member Name	Member Role
1	Harshit Gupta	administrator

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# GENERAL COURSE STRUCTURE &THEME

## GENERAL COURSE STRUCTURE & THEME

A. Definition of Credit:

Definitions	Credits
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B. Range of Credits: null

C. Course code and definition:

Course code	Definitions
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## Category WISE STRUCTURE

## Theory

(i) Number of Theory courses: 38

(ii) Credits: 124

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S. No.	Course Code	Course Title	L	T	P	Semester	Credits
1	BAS102	Engineering Chemistry	3	1	0	1	4
2	BAS103	Engineering Mathematics-I	3	1	0	1	4
3	BME101	Fundamentals of Mechanical Engineering	3	0	0	1	3
4	BAS105	Soft Skills	2	0	0	1	2
5	BAS201	Engineering Physics	3	1	0	2	4
6	BAS203	Engineering Mathematics-II	3	1	0	2	4
7	BEE201	Fundamentals of Electrical Engineering	3	1	0	2	4
8	BCS201	Programming for Problem Solving	3	0	0	2	3
9	BAS204	Environment and Ecology	2	0	0	2	2
10	BOE305	Sensor & Instrumentation	3	0	0	3	3
11	BVE301	Universal Human Values and Professional Ethics	3	0	0	3	3
12	BCS301	Data Structure	3	1	0	3	4
13	BCS302	Computer Organization and Architecture	3	1	0	3	4
14	BCS303	Discrete Structures & Theory of Logic	3	1	0	3	4
15	BCC302	Python Programming	2	1	0	3	3
16	BAS403	Mathematics-IV	3	1	0	4	4
17	BAS401	Technical Communication	2	0	0	4	2
18	BCS401	Operating System	3	0	0	4	3
19	BCS402	Theory of Automata and Formal Languages	3	0	0	4	3
20	BCS403	Object Oriented Programming with Java	3	0	0	4	3
21	BCC401	Cyber Security	3	0	0	4	3
22	BOE094	Digital and Social Media Marketing	3	0	0	8	3
23	BCS502	Web Technology	3	0	0	5	3
24	BCS061	Big Data	3	0	0	6	3





S. No.	Course Code	Course Title	L	T	P	Semester	Credits
1	BAS152	Engineering Chemistry Lab	0	0	2	1	1
2	BEC151	Basic Electronics Engineering Lab	0	0	2	1	1
3	BAS155	English Language Lab	0	0	2	1	1
4	BWS151	Workshop Practice Lab	0	0	2	1	1
5	BAS251	Engineering Physics Lab	0	0	2	2	1
6	BEE251	Basic Electrical Engineering Lab	0	0	2	2	1
7	BCS251	Programming for Problem Solving Lab	0	0	2	2	1
8	BCE251	Engineering Graphics & Design Lab	0	0	4	2	2
9	BCS351	Data Structure Lab	0	0	2	3	1
10	BCS352	Computer Organization and Architecture Lab	0	0	2	3	1
11	BCS353	Web Designing Workshop	0	0	2	3	1
12	BCC351	Internship Assessment / Mini Project	0	0	2	3	2
13	BCS451	Operating System Lab	0	0	2	4	1
14	BCS851	Major Project Phase-II	0	0	8	8	4
15	Mini Project or Internship Assessment	BCS752	0	0	2	7	1
16	BCS551	Database Management System Lab	0	0	2	5	1
17	BCS651	Software Engineering Lab	0	0	2	6	1
18	BCS452	Object Oriented Programming with Java Lab	0	0	2	4	1
19	BCS453	Cyber Security Workshop	0	0	2	4	1
20	BCS751A	AI Lab	0	0	2	7	1
21	KCS753	Major Project Phase-I	0	0	8	7	4
22	BCS554	Mini Project or Internship Assessment	0	0	2	5	2

23	BCS654	Mini Project or Internship Assessment	0	0	2	6	2
24	BCS653	Computer Networks Lab	0	0	2	6	1
25	BCS652	Compiler Design Lab	0	0	2	6	1
26	BCS553	Design and Analysis of Algorithm Lab	0	0	2	5	1
27	BCS552	Web Technology Lab	0	0	2	5	1

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## Practical (Audit Course)

(i) Number of Practical (Audit Course) courses: 2

(ii) Credits: 0

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S. No.	Course Code	Course Title	L	T	P	Semester	Credits
1	BVA251	Sports and Yoga	0	0	2	2	0
2	BVA451	Sports and Yoga – II	0	0	2	4	0

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## CA (Compulsory Audit)

(i) Number of CA (Compulsory Audit) courses: 1

(ii) Credits: 0

S. No.	Course Code	Course Title	L	T	P	Semester	Credits
1	BNC501	Constitution of India	2	0	0	5	0

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## Audit Course

(i) Number of Audit Course courses: 1

(ii) Credits: 0

<b>S. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Semester</b>	<b>Credits</b>
1	BNC602	Indian Tradition, Culture and Society	2	0	0	6	0

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# SEMESTER WISE STRUCTURE

## SEMESTER – 1

### Engineering Chemistry

Course Code	:	BAS102
Course Title	:	Engineering Chemistry
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">.http://pcv-au.vlabs.ac.in/physical-</a>

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### Engineering Mathematics-I

Course Code	:	BAS103
Course Title	:	Engineering Mathematics-I
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## **Fundamentals of Mechanical Engineering**

Course Code	:	BME101
Course Title	:	Fundamentals of Mechanical Engineering
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Soft Skills

Course Code	:	BAS105
Course Title	:	Soft Skills
Number of Credits	:	2(L: 2, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Engineering Chemistry Lab

Course Code	:	BAS152
Course Title	:	Engineering Chemistry Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Basic Electronics Engineering Lab**

Course Code	:	BEC151
Course Title	:	Basic Electronics Engineering Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**English Language Lab**



Course Code	:	BAS155
Course Title	:	English Language Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Workshop Practice Lab

Course Code	:	BWS151
Course Title	:	Workshop Practice Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 2

### Engineering Physics

Course Code	:	BAS201
Course Title	:	Engineering Physics
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Engineering Mathematics-II

Course Code	:	BAS203
Course Title	:	Engineering Mathematics-II
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Fundamentals of Electrical Engineering

Course Code	:	BEE201
Course Title	:	Fundamentals of Electrical Engineering
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Programming for Problem Solving

Course Code	:	BCS201
Course Title	:	Programming for Problem Solving
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Environment and Ecology

Course Code	:	BAS204
Course Title	:	Environment and Ecology
Number of Credits	:	2(L: 2, T: -, P: -)
Course Category	:	Theory

**Course Contents:**

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Engineering Physics Lab

Course Code	:	BAS251
Course Title	:	Engineering Physics Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:**

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Basic Electrical Engineering Lab

Course Code	:	BEE251
Course Title	:	Basic Electrical Engineering Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Programming for Problem Solving Lab

Course Code	:	BCS251
Course Title	:	Programming for Problem Solving Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Engineering Graphics & Design Lab**

Course Code	:	BCE251
Course Title	:	Engineering Graphics & Design Lab
Number of Credits	:	2(L: -, T: -, P: 4)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Sports and Yoga

Course Code	:	BVA251
Course Title	:	Sports and Yoga
Number of Credits	:	0(L: -, T: -, P: 2)
Course Category	:	Practical (Audit Course)

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 3

### Sensor & Instrumentation

Course Code	:	BOE305
Course Title	:	Sensor & Instrumentation
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory



**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## **Universal Human Values and Professional Ethics**

Course Code	:	BVE301
Course Title	:	Universal Human Values and Professional Ethics
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Data Structure

Course Code	:	BCS301
Course Title	:	Data Structure
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Computer Organization and Architecture

Course Code	:	BCS302
Course Title	:	Computer Organization and Architecture
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Discrete Structures & Theory of Logic

Course Code	:	BCS303
Course Title	:	Discrete Structures & Theory of Logic
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Python Programming

Course Code	:	BCC302
Course Title	:	Python Programming
Number of Credits	:	3(L: 2, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Data Structure Lab

Course Code	:	BCS351
Course Title	:	Data Structure Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Computer Organization and Architecture Lab

Course Code	:	BCS352
Course Title	:	Computer Organization and Architecture Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Web Designing Workshop

Course Code	:	BCS353
Course Title	:	Web Designing Workshop
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Internship Assessment / Mini Project

Course Code	:	BCC351
Course Title	:	Internship Assessment / Mini Project
Number of Credits	:	2(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 4

### Mathematics-IV

Course Code	:	BAS403
Course Title	:	Mathematics-IV
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Technical Communication

Course Code	:	BAS401
Course Title	:	Technical Communication
Number of Credits	:	2(L: 2, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Operating System

Course Code	:	BCS401
Course Title	:	Operating System
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:



S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Theory of Automata and Formal Languages

Course Code	:	BCS402
Course Title	:	Theory of Automata and Formal Languages
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Object Oriented Programming with Java

Course Code	:	BCS403
Course Title	:	Object Oriented Programming with Java
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Cyber Security

Course Code	:	BCC401
Course Title	:	Cyber Security
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Operating System Lab

Course Code	:	BCS451
Course Title	:	Operating System Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Object Oriented Programming with Java Lab

Course Code	:	BCS452
Course Title	:	Object Oriented Programming with Java Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Cyber Security Workshop

Course Code	:	BCS453
Course Title	:	Cyber Security Workshop
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Sports and Yoga – II

Course Code	:	BVA451
Course Title	:	Sports and Yoga – II
Number of Credits	:	0(L: -, T: -, P: 2)
Course Category	:	Practical (Audit Course)

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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# SEMESTER – 5

## Database Management System Lab

Course Code	:	BCS551
Course Title	:	Database Management System Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Web Technology

Course Code	:	BCS502
Course Title	:	Web Technology
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Constitution of India

Course Code	:	BNC501
Course Title	:	Constitution of India
Number of Credits	:	0(L: 2, T: -, P: -)
Course Category	:	CA (Compulsory Audit)

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Mini Project or Internship Assessment

Course Code	:	BCS554
Course Title	:	Mini Project or Internship Assessment
Number of Credits	:	2(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Design and Analysis of Algorithm**

Course Code	:	BCS503
Course Title	:	Design and Analysis of Algorithm
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>



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## Machine Learning Techniques

Course Code	:	BCS055
Course Title	:	Machine Learning Techniques
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Design and Analysis of Algorithm Lab

Course Code	:	BCS553
Course Title	:	Design and Analysis of Algorithm Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">.http://pcv-au.vlabs.ac.in/physical-</a>

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## Database Management System

Course Code	:	BCS501
Course Title	:	Database Management System
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">.http://pcv-au.vlabs.ac.in/physical-</a>

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## Data Analytics

Course Code	:	BCS052
Course Title	:	Data Analytics
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:**

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Web Technology Lab

Course Code	:	BCS552
Course Title	:	Web Technology Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:**

**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 6

### Software Engineering Lab

Course Code	:	BCS651
Course Title	:	Software Engineering Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Big Data

Course Code	:	BCS061
Course Title	:	Big Data
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

#### **Course Contents:**

#### **EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### **Software Project Management**

Course Code	:	BCS651
Course Title	:	Software Project Management
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

#### **Course Contents:**

#### **EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Artificial Intelligence

Course Code	:	BCS071
Course Title	:	Artificial Intelligence
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Software Engineering

Course Code	:	BCS601
Course Title	:	Software Engineering
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Mini Project or Internship Assessment**

Course Code	:	BCS654
Course Title	:	Mini Project or Internship Assessment
Number of Credits	:	2(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Indian Tradition, Culture and Society

Course Code	:	BNC602
Course Title	:	Indian Tradition, Culture and Society
Number of Credits	:	0(L: 2, T: -, P: -)
Course Category	:	Audit Course

### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Computer Networks Lab

Course Code	:	BCS653
Course Title	:	Computer Networks Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:



**EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Complier Design Lab**

Course Code	:	BCS652
Course Title	:	Complier Design Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**BCS603**

Course Code	:	Computer Networks
Course Title	:	BCS603
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Compiler Design

Course Code	:	KCS604
Course Title	:	Compiler Design
Number of Credits	:	4(L: 3, T: 1, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 7

### BCS752

Course Code	:	Mini Project or Internship Assessment
Course Title	:	BCS752
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### AI Lab

Course Code	:	BCS751A
Course Title	:	AI Lab
Number of Credits	:	1(L: -, T: -, P: 2)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Major Project Phase-I

Course Code	:	KCS753
Course Title	:	Major Project Phase-I
Number of Credits	:	4(L: -, T: -, P: 8)
Course Category	:	Practical

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Renewable Energy Resources

Course Code	:	BOE074
Course Title	:	Renewable Energy Resources
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Administration and Planning

Course Code	:	BHU701
Course Title	:	Administration and Planning
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Cloud Computing**

Course Code	:	BCS713
Course Title	:	Cloud Computing
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## SEMESTER – 8

### Major Project Phase-II

Course Code	:	BCS851
Course Title	:	Major Project Phase-II
Number of Credits	:	4(L: -, T: -, P: 8)
Course Category	:	Practical

#### Course Contents:

#### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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### Digital and Social Media Marketing

Course Code	:	BOE094
Course Title	:	Digital and Social Media Marketing
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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**Industrial Management**

Course Code	:	BHU802
Course Title	:	Industrial Management
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

**Course Contents:****EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:**

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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## Cloud Computing

Course Code	:	BOE081
Course Title	:	Cloud Computing
Number of Credits	:	3(L: 3, T: -, P: -)
Course Category	:	Theory

### Course Contents:

### EXPERIMENTS THAT MAY BE PERFORMED THROUGH VIRTUAL LABS:

S.No.	Experiment Name	Experiment Link(s)
{1}	{Determination of surface tension and viscosity.}	<a href="http://pcv-au.vlabs.ac.in/physical-">http://pcv-au.vlabs.ac.in/physical-</a>

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