

SNJB (Jain Gurukul's)

**K.K.H. Abad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College
Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra**



Establishment
27/11/1928

(Affiliated to Savitribai Phule Pune University) Id. No.PU/NS/AC/015/1970

(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125

• P. O. Box No.: 6 • E-mail : alccchandwad@yahoo.co.in

• Website : www.acschandwadcollege.com

DST-FIST Funded (2018-19)

UGC-NSQF Courses (B.Voc. & CC)

Best College Award by Savitribai Phule Pune University (2015-16)

1.3.2: Number of courses that include experiential learning through project work/field work/internship during the year

T.Y.B.Sc. Physics. - Project

Sr. No.	Document name	Page number
1	Syllabus copy	2
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3	Project copy	5

10) Structure of the Course:

Semester	Course Type	Course Code	Course Name	Credit		
V	Discipline Specific Elective Course	PHY-351	Mathematical Methods in Physics-II	2		
		PHY-352	Electrodynamics	2		
		PHY-353	Classical Mechanics	2		
		PHY-354	Atomic and Molecular Physics	2		
		PHY-355	Computational Physics	2		
		PHY-356: Elective-I (Select any One)				2
		PHY-356(A)	Astronomy and Astrophysics-I			
		PHY-356(B)	Elements of Materials Science			
		PHY-356(C)	Biophysics			
		PHY-356(D)	Renewable Energy Sources-I			
		PHY-356(E)	Applied Optics			
		PHY-356(F)	C# programming			
		PHY-356(G)	Acoustics-I			
		PHY-357	Physics Laboratory-3A	2		
	PHY-358	Physics Laboratory-3B	2			
	PHY-359	Project-I	2			
	Skill Enhancement Course	PHY-3510: Skill Enhancement Course-I (Select any One)				2
		PHY-3510(H)	Python Programming			
		PHY-3510(I)	Energy studies			
PHY-3510(J)		Introduction to Arduino				
PHY-3510(K)		Sensors and Transducer				
PHY-3511: Skill Enhancement Course-II (Select any One)				2		
PHY-3511(L)		Physics Workshop Skill				
PHY-3511(M)		Biomedical Instrumentation				
PHY-3511(N)		Non-destructive Testing Techniques				
PHY-3511(O)		Acoustics Applications				
VI	Discipline Specific Elective Course	PHY-361	Solid State Physics	2		
		PHY-362	Quantum Mechanics	2		
		PHY-363	Thermodynamics and Statistical Physics	2		
		PHY-364	Nuclear Physics	2		
		PHY-365	(A) Electronics-II	2		
			OR	2		

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		(B) Advanced Electronics	
		PHY-366: Elective-II (Select any One)	
		PHY-366(P) Medical Electronics	2
		PHY-366(Q) Physics of Nanomaterials	
		PHY-366(R) Microcontrollers	
		PHY-366(S) Lasers	
		PHY-366(T) Astronomy and Astrophysics-II	
		PHY-366(U) Renewable Energy Sources-II	
		PHY-366(V) Acoustics-II	
		PHY-367 Physics Laboratory-4A	2
		PHY-368 Physics Laboratory-4B	2
		PHY-369 Project-II	2
		PHY-3610: Skill Enhancement Course-III (Select any One)	
	Skill Enhancement Course	PHY-3610(W) Scientific Data Analysis using Python	2
		PHY-3610(X) Solar PV System: Installation, Repairing and Maintenance	
		PHY-3610(Y) Applications of Internet of things (IOT)	
		PHY-3610(Z) Calibration Techniques	
		PHY-3611: Skill Enhancement Course-IV (Select any One)	
		PHY-3611(AA) Microcontrollers	2
		PHY-3611(AB) Instrumentation for Agriculture	
		PHY-3611(AC) Radiation Physics	
		PHY-3611(AD) Photography	

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Department of Physics
KKHA Arts, SMGL Commerce &
SPHJ Science College, Chandwad
Dist-Nashik 423 101 Maharashtra

**K.K.H.A ARTS, S.M.G.L COMMERCE & S.P.H.J SCIENCE COLLEGE
CHANDWAD**

**Department Of Physics
Project Report Distribution List
T.Y.B.Sc (2022-2023)**

Sr no	Student Name	Project Name	Project Guide name
1	Jadhav Nishant Sunil	Lisajous figures using optical method	Dr.G.E.Patil
2	Thakare Kanchan Arjun	Introduction of ultrasonic interferometer and experimental techniques for determination of ultrasonic velocity,density,viscosity,compressibility and various thermodynamic parameters	Dr.A.B.Gite
3	Kuwar Prajakta Gunvant	Introduction of ultrasonic interferometer and experimental techniques for determination of ultrasonic velocity,density,viscosity,compressibility and various thermodynamic parameters	Dr.A.B.Gite
4	Aher Komal Madhavrao	Hall effect using hall probe	Mr.G.B.Dhomse
5	Wagh Avanti Gorkshnath	Trapezoidal rule using C programming	Ms.S.B.Thakare
6	Patil Ashwini Sanjay	Introduction of hallow prism	Ms.P.A.Nikam



University of Pune



“Hall Effect using the Hall probe”

A Project Report Submitted to
Savitribai Phule Pune University
For the partial fulfillment of the degree of

BACHELOR OF SCIENCE
IN
PHYSICS
BY

Aher Komal Madhvrao
B.Sc. (Physics)

Under the Guidance of
Miss.Sarika Shinde Mam
SNJBs KKHA Arts, SMGL Commerce and
SPHJ Science College, Chandwad – 423101

2022-2023



University of Pune



SNJBs KKHA Arts, SMGL Commerce and
SPHJ Science College Chandwad- 423101

Department of Physics

Certificate

This is to certify that Miss **Aher Komal Madhavrao**, Roll.No.259 of B.Sc. Physics class has satisfactory completed his project works entitled, "**Hall effect using the Hall probe**" as per rule laid by the University of Pune during the year 2022-23 under the guidance of Miss.Sarika Shinde Mam from Physics Department.

Shinde

Project Incharge

Sarika
13/05/23

Examiner

Shinde
13/5/2023

Head of Department

Aher
13/05/23
Internal Examinee



University of Pune



“Introduction of Ultrasonic interferometer and experimental techniques for determination of ultrasonic velocity, density, viscosity, compressibility and various thermodynamics parameters Project Report Submitted to”

Savitribai Phule Pune University

For the partial fulfillment of the degree of

BACHELOR OF SCIENCE

IN

PHYSICS

BY

Thakare Kanchan Arun

B.Sc. (Physics)

Under the Guidance of

Prof.A.B Gite

**SNJBs KKHA Arts, SMGL Commerce and
SPHJ Science College, Chandwad – 423101**

2022-2023



University of Pune



SNJBs KKHA Arts, SMGL Commerce and
SPHJ Science College Chandwad- 423101

Department of Physics

Certificate

This is to certify that Miss, Thakare
Kanchan Arun **Roll.No. 279** of B.Sc. Physics
(sem VI) class has satisfactorily completed his
project works entitled, "Introduction of
ultrasonic interferometer and experimental
techniques for determination of ultrasonic
velocity, density, viscosity, compressibility and
various thermodynamics parameters" as per
rule laid by the University of Pune during the
year 2022-23 under the guidance **Prof.A.B Gite**
of from Physics Department.


13/05/2023

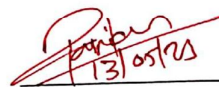
Project Guide


13/5/2023

Head of Department


13/05/2023

Internal Examiner


13/05/2023

External Examiner