



TaranathShikshanaSamsthe
Laxmi Venkatesh Desai college, Raichur
Affiliated to Raichur University, Raichur & Re-accredited by NAAC with B Grade



Index for Add-On Course

Title: Fundamentals of Physics

Academic Year: 2021 - 22

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Taranath Shikshana Samsthe



LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

(Affiliated to Raichur University, Raichuri. Re-Accredited by NAAC with "B" Grade)


Dr. Venkatesh B. Devaru, M.Sc., Ph.D., MBA.
PRINCIPAL

Office of the Principal
Ph: (08532)-240286, 240707
Fax: +918532 240707
e-mail: lvdrccr@gmail.com
Website: www.lvdcollege.com

Date: 15/10/2021

TO WHOMEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add_On course on, "Fundamentals of Physics" with the duration of 30 hours introduced in 2021-22. The said programme is apart from the existing course curriculum.


Head of the Department
Head of the Physics Department
L. V. D. College,
RAICHUR-584 101.


Principal
PRINCIPAL
L.V.D. College, RAICHUR-03.

Date: 15.10.2021

To
The Principal,
LVD College, Raichur.

From
Head
Department of Physics

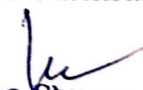
Respected Sir,


Sub: Permission to start an Add_On course

With respect to the above sited subject I, the undersigned request you to grant permission to start an Add_On course titled "FUNDAMENTALS OF PHYSICS" to B.Sc I/II/III year students. students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

Yours Faithfully


Head of the Physics Department
L. V. D. College,
RAICHUR-584 104.

permitted

PRINCIPAL
L.V.D. College, RAICHUR-03.



Taranath Shikshana Samsthe



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Office of the Principal
Ph: (08532)-240286, 240707
Fax: +918532 240707
e-mail: lvdrccr@gmail.com
Website: www.lvdcollege.com

Date: 13/10/2021

ORDER Sub: Meeting of Board of Studies members

A meeting of the following BOS is hereby convened on 13/10/2021 at 11:00 AM in the Department of Physics, LVD College, Raichur.

BOARD OF APPOINTMENT OF BOS MEMBERS FOR ADD-ON COURSE FUNDAMENTALS OF PHYSICS

1)	Dr. Yesappa L. Assistant professor of physics University of Agricultural sciences Raichur.	Chairman Assistant Professor of Physics College of Agricultural Engineering UAS, RAICHUR-584 104.
2)	DR. Vinayak Assistant Professor Department of Physics GFGC, Jewrgi	Member
3)	Sri. Sharana Gouda B H Head of the Department Department of Physics LVD College, Raichur	Member Head of the Physics Department L. V. D. College, RAICHUR-584 101

The Chairman and the members are requested to make it convenient to attend the BOS Meeting

PRINCIPAL
PRINCIPAL
L.V.D. College, RAICHUR-03.,

DATE: 08.10.2021

**To
The Principal,
LVD College,
Raichur.**

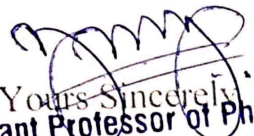
Respected Sir,

Sub: Acceptance to be the chairman of BOS.

with reference to the above-cited subject I Dr. Yesappa L. Assistant professor of physics University of Agricultural sciences Raichur, received your letter of request to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your request as a BOS Chairman.

Thanking You,


Yours Sincerely,
Assistant Professor of Physics
College of Agricultural Engineering
UAS, RAICHUR-584 104.

DATE: 08.10.2021

To
The Principal,
LVD College,
Raichur.

Respected Sir,

Sub: Acceptance to be a Member of BOS.

with reference to the above-cited subject I, **Dr Vinayak Assistant Professor Department of Physics GFGC, Kalaburagi.** received your letter of request to be a Member of BOS, for the Add-on Course to be conducted by your college

Hence, I give my consent and accept your request as a BOS Member.

Thanking You,


Your Sincerely

Course include

Units and dimensions: Definition of physics and physical quantities, Fundamental and Derived units. Characteristics of standard unit. Fundamental quantity and Derived quantity: Classification of units: Systems of units: CGS, FPS, MKS, SI. Definition of dimensions. Dimensional formulae and SI units of physical quantities. Classification of physical quantity. Principle of homogeneity of dimensions.

Laws of Motion: Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.

Objectives

- Demonstrate conceptual understanding of fundamental physics principles
- Communicate physics reasoning in oral and written form
- Solve physics problems using qualitative and quantitative reasoning, mathematical and computational techniques, and experimental, computational, and/or theoretical methods
- Conduct independent research or work successfully in a technical position
- Recognize universal physical laws and evaluate their limitations

To join contact

- Miss. Chaltra (Department of physics)
- Mr. khaja Pasha (Department of physics)



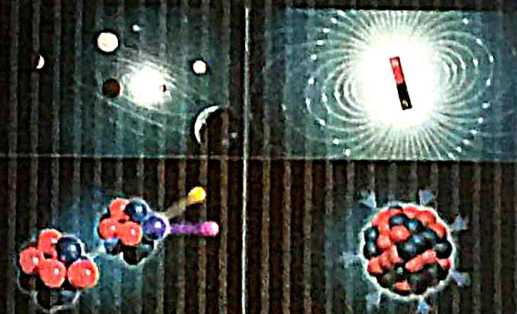
TARANATH
SHIKSHANA
SHAMSTHE

Laxmi Venkatesh Desai college, Raichur

Re-Accredited by NAAC with B grade

Department of physics

2021-22



offers an add-on course on
**FUNDAMENTALS OF
PHYSICS**

Nagendra
Co-ordinator

Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.



PRINCIPAL
L.V.D. College, RAICHUR-03.

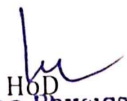
LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade


Department of Physics

Notice

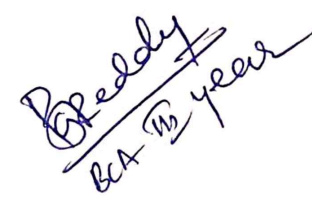
All the B.Sc I/II/III year Semester students are here by informed that department of physics is introducing Add-on course titled "FUNDAMENTALS OF PHYSICS" interested students should register their name to the course coordinator for the certificate course in physics department on or before 11.11.2021 at 1:40 PM to 2:30 PM



HOD
Head of the Physics Department
L. V. D. College,
RAICHUR-584 101.

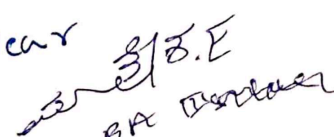
~~Alloy P.~~
BCA IInd year


..

Roop
B.A IIIrd year


BA IIIrd year


D.ca I Year


B.E
BA IIIrd year

SYLLABUS
FUNDAMENTALS OF PHYSICS

COURSE OUTCOME

- Demonstrate conceptual understanding of fundamental physics principles
- Communicate physics reasoning in oral and written form
- Solve physics problems using qualitative and quantitative reasoning, mathematical and computational techniques, and experimental, computational, and/or theoretical methods
- Conduct independent research or work successfully in a technical position
- Recognize universal physical laws and evaluate their limitations

Unit- I

15hours

Units and dimensions: Definition of physics and physical quantities, Fundamental and Derived units. Characteristics of standard unit. Fundamental quantity and Derived quantity: Classification of units: Systems of units: CGS, FPS, MKS, SI. Definition of dimensions. Dimensional formulae and SI units of physical quantities. Classification of physical quantity. Principle of homogeneity of dimensions.


Unit- II

15hours

Laws of Motion: Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.

Reference

- **Fundamentals of Physics Loose Leaf – 5 August 2013** by David Halliday (Author), Robert Resnick (Author).
- **Halliday & Resnick Fundamentals of Physics Loose Leaf – Import, 25 March 2013** by Jearl Walker (Author), David Halliday (Author),


PRINCIPAL
L.V.D. College, RAICHUR-03.

LAXMI VENKATESH DESAI COLLEGE , RAICHUR.

ADD ON COURSE TIME TABLE FOR B.Sc II, IV & VI SEMESTER, DEPARTMENT OF PHYSICS, 2021-22.

TIME → DAYS ↓	09-30 TO 10-20 AM (THEORY)	10-20 TO 12-00 PM (IV SEM LAB)	12-00 TO 12-50PM (THEORY)	12-00 TO 1-40PM (II SEM LAB)	01-40 TO 02-30 PM	02-30 TO 04-10 PM (VI SEM LAB)	04-10 TO 5- 00 PM (THEORY)
Monday					LUNCH BREAK		ADD ON COURSE
Tuesday							ADD ON COURSE
Wednesday							ADD ON COURSE
Thursday							ADD ON COURSE
Friday							ADD ON COURSE
Saturday							ADD ON COURSE

[Signature]
 Head of Department,
 L. V. D. College,
 RAICHUR-584 10L.

[Signature]
 Principal
 L.V.D. College, RAICHUR-03.

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Attendance Sheet

DEPARTMENT OF PHYSICS

Value added certificate Course :
FUNDAMENTALS OF PHYSICS

Faculty Name: miss CHAITRA

Attendance: 2020-2021

S NO	Register No	Name of the Student																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1.	206865S	PRATHYUSHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2.	2068676	CHAITHRA G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	2068708	CHANDAPPA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	2068709	RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.	2068713	PAVAN KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	2068750	SHANTHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7.	2068766	MAITHRI KULKARNI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	2068780	THARUN KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	2068802	MONIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	2068943	AMBIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.	2068810	NAGAMMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Sign of faculty			04/03	05/03	07/03	09/03	11/03	12/03	14/03	16/03	17/03	19/03	21/03	23/03	25/03	26/03	28/03	30/03	01/04	01/04	04/04	05/04	06/04	06/04	08/04	08/04	09/04	09/04	11/04	12/04	13/04	13/06
			Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch

Signature of Faculty

Signature of HOD

Signature of Principal

Head of the Physics Department
L. V. D. College,
RAICHUR-584101

PRINCIPAL
L.V.D. College, RAICHUR-03.

Register No	Name of the Student	COURSE TITLE: FUNDAMENTALS OF PHYSICS																FACULTY NAME:																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
12.	2068823	SAHANA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	
13.	2068827	CHANDRAKUSUMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	2068830	K AMARESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15.	2068840	ASHWINI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16.	2068850	G DEEPIKA	P	A	D	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17.	2068859	ABHISHEK	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	2068899	BHARATHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19.	2068910	CHANNABASAMMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20.	2068911	BHAVANA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21.	2068928	SANTHOSH KUMAR	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22.	2068938	MALLAPPA	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23.	2068942	AYYAPPA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24.	2068964	MANOJ KUMAR H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25.	2068965	SHARANAYYA	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26.	2068980	DURAGAPPA	A	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27.	2069001	PRUTHVI RAJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28.	2069035	Y SURABHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29.	2069040	HEMAVATHI	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30.	2069044	MANIKANTA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31.	2069045	MANJULA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Signature of Faculty			04/03	05/3	07/3	9/3	11/3	12/3	14/3	14/3	17/3	19/3	21/3	23/3	25/3	26/3	28/3	30/3	1/4	1/4	4/4	5/4	6/4	6/4	8/4	8/4	9/4	9/4	11/4	12/4	13/4	13/4						

Signature of Faculty: _____ Signature of HOD: _____ Signature of Principal: _____

LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Physics

Report of Add_On course

Add_On course: FUNDAMENTALS OF PHYSICS

Department of Physics has been conducted add-on Course for the interested final year B.Sc students from 04.03.2022 to 15.04.2022. Around 32 students were enrolled for the course. After completing this course the students were able to understand about the fundamentals of physics such as units and dimensions characteristics etc. Students have taken the benefits for the course.

Add_On course: FUNDAMENTALS OF PHYSICS

Duration :30 hrs

Started on: 04.03.2022

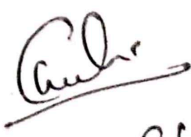
Completed on: 15.04.2022

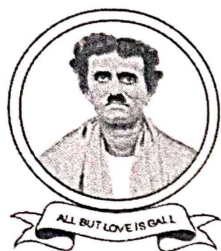
Name of the Faculty : Miss. Chaitra

Total No of Students admitted: 31

Total No of classes admitted: 30

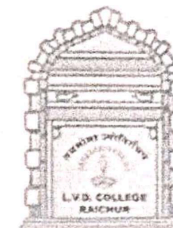
Total No of Students benefited: 31


Miss. Chaitra
Dept of Physics



Taranath Shikshana Samsthe
Laxmi Venkatesh Desai College, Raichur.

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

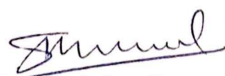


Course Completion Certificate

This Certificate is awarded to Miss/[✓]Mr. CHANDAPPA

for successfully completing the course in" FUNDAMENTALS OF PHYSICS" conducted by Department of
Physics in the year 2021-22.


Faculty In charge


Head of the Department
of the Physics Department
L. V. D. College,
RAICHUR-584 101.


Principal
PRINCIPAL
L.V.D. College, RAICHUR-03.

Taranath Shikshana Samsthe's
LAXMI VENKATESH DESAI COLLEGE, RAICHUR.
DEPARTMENT OF PHYSICS

Course Title – Fundamental Physics

Time: 30 Minutes

Max Marks: 40

Instructions to candidates:

1. Answer all the questions.

(1) The symbol to represent "Amount of Substance" is _____

- a. K
- b. A
- c. Cd
- d. mol

(2) Which among the following is the Supplementary Unit _____

- a. Mass
- b. Time
- c. Solid angle
- d. Luminosity

(3) Dimensions of kinetic energy is the same as that of _____

- a. Acceleration
- b. Velocity
- c. Work
- d. Force

(4) Farad is the unit of _____

- a. Luminosity
- b. Wavelength
- c. Permittivity
- d. Inertia

(5) Electron volt is a unit of _____

- a. Luminosity
- b. Frequency
- c. Force
- d. Energy

(6) Joule second is the unit of _____

- a. Force
- b. Angular momentum
- c. Energy
- d. Power

- (7) The smallest value which is measured using an instrument is known as _____
- Absolute count
 - Least count
 - Round off value
 - Minimum count
- (8) Which is the system of unit
- SMS system
 - MKP system
 - FPS System
 - CJS System
- (9) Which of the following should be constant for a body to have a constant momentum?
- Acceleration
 - Force
 - Velocity
 - All of the above.
- (10) Consider a man standing on the spring balance such that the reading on the spring balance is 60kg. If the man jumps out of the spring balance what will be the final reading of the spring balance?
- Remains unchanged
 - Increases
 - Decreases
 - First increases then decrease to zero.

Laxmi Venkatesh Desai College, Raichur

(Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade)

Value added certificate Course: FUNDAMENTALS OF PHYSICS Marks Sheet

Sl.no	Register Numbaer	Name of the student	Marks
1.	2068658	PRATHYUSHA	39
2.	2068676	CHAITHRA G	39
3.	2068708	CHANDAPPA	38
4.	2068709	RAVINDRA	38
5.	2068713	PAVAN KUMAR	39
6.	2068750	SHANTHA	40
7.	2068766	MAITHRI KULKARNI	40
8.	2068780	THARUN KUMAR	40
9.	2068802	MONIKA	40
10.	2068943	AMBIKA	39
11.	2068810	NAGAMMA	39
12.	2068823	SAHANA	39
13.	2068827	CHANDRAKUSUMA	38
14.	2068830	K AMARESH	38
15.	2068840	ASHWINI	38
16.	2068850	G DEEPIKA	38
17.	2068859	ABHISHEK	38
18.	2068899	BHARATHI	38
19.	2068910	CHANNABASAMMA	38
20.	2068911	BHAVANA	40
21.	2068928	SANTHOSH KUMAR	39
22.	2068938	MALLAPPA	39
23.	2068942	AYYAPPA	39
24.	2068964	MANOJ KUMAR H	40
25.	2068965	SHARANAYYA	40
26.	2068980	DURAGAPPA	40
27.	2069001	PRUTHVI RAJ	40
28.	2069035	Y SURABHI	38
29.	2069040	HEMAVATHI	39
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