

Certificate course on

INTRODUCTION TO PHYSICS LABORATORY

Course code - KVM/CC/PHY/23-24/01



K. Vinod

PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676552
MALAPPURAM

From,

The Head of the Department

Department of Physics MES Keveeyam College, Valanchery

To,

The Principal MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Certificate Course.

The Department of Physics is planning to conduct a certificate course on " INTRODUCTION TO PHYSICS LABORTORY " of 30 hrs duration for UG Students. So I kindly request you to grant permission for the same.

Thanking you.

Yours faithfully.

ndw
HOD, physics

Head of the Department
Department of Physics
MES KEVEEYAM COLLEGE
Valanchery, 676552

Place: Valanchery

Date:

Approved

J. K. M.



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From

The Head of the Department

Department of Physics MES Keveeyam College, Valanchery

To

The Principal MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Board of Studies for the short term course.

The following academicians may be included in the Board of Studies for the short term course on "INTRODUCTION TO PHYSICS LABORTORY " to be conducted by the Department.

1. Dr. Nabeel Rashid M
Assistant Professor MES Ponnani
2. ADTH.P, ~~ADTH~~
Assistant Professor

Kindly do the necessary action to constitute the Board of Studies with these members.

Thanking you.

Yours faithfully

ndw
HOD Physics

Place: Valanchery

Date:

Approved
S. Kumar



Head of the Department
Department of Physics
MES KEVEEYAM COLLEGE
Valanchery, 676552



Approved
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VALANCHERY, PIN 676552
MALAPPURAM



MES KEVEEYAM COLLEGE VALANCHERY

P.O.Valanchery, Malappuram Dist, Kerala, Pin:676 552.
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principal@meskeveeyamcollege.ac.in

Reaccredited with 'A+' Grade by NAAC (Score 3.44) .

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ISO 9001:2015 certified institution

13.06.2023

Proceedings of the Principal, MES Keveeyam College, Valanchery

Ref : (1) Request from the head of the Department of Physics, Dated 19.06.2023.
(2) Minutes of the Board of Studies Meeting for approval of the syllabus Dated
12.06.2023

ORDER

As per the reference cited (1), a request was received from the Head of the Department of Physics to start a certificate course on KVM/CC/PHY/23-24/01 - Introduction to Physics Laboratory for the first year UG students. In the same letter, the head of the Department has recommended a panel of academicians to be included in the Board of Studies.

The Board of Studies for the above course is constituted of the following members

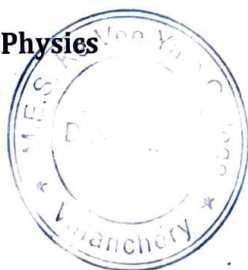
1. Dr. Nabeel Rashin (Assistant Professor, Department of Physics, MES Ponnani College)
2. Asha (Assistant Professor, Department of Physics, TMG College, Tirur)
3. Majeesh M (Head of the department and Assistant Professor, Department of Physics, MES Keveeyam college, Valanchery)
4. Abdul Majeed, (Associate professor, Department of Physics MES Keveeyam college, Valanchery)
5. Muhammed Shibu K (Assistant Professor, Department of Physics, MES Keveeyam college, Valanchery)
6. Dr. Bincy I P (Assistant Professor, Department of Physics, MES Keveeyam college, Valanchery)
7. Dr. Navas M P, (Assistant Professor, Department of Physics, MES Keveeyam college, Valanchery)
8. Lubna A, (Assistant Professor, Department of Physics, MES Keveeyam college, Valanchery)
9. Arathi R Nair (Assistant Professor, Department of Physics MES Keveeyam college, Valanchery)

Sanction is hereby accorded to the Department of Physics for conducting the above-referred certificate course.

Order is issued accordingly.

Copy to:

1. HoD, Department of Physics
2. File



 Principal

PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY - 676552
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MINUTES OF BOARD OF STUDIES MEETING

Venue: Department of Physics

Agenda: Approval of syllabus of the short term course

Decision:

1. Discussions were done on the prepared syllabus.
2. Suggestions were there to offer INTRODUCTION TO PHYSICS LABORTORY course
3. Approval can be given to syllabus.

Members present:

1. Dr. Nabeel Rashid M
Assistant Professor, MES Ponnani
2. ADITHYAN, Adithi
Assistant Professor

3. Dr. Navas MP
Assistant Professor, MES Keveeyam College, Valanchery

4. Majeesh M
HOD, Dept of Physics
MES Keveeyam college, Valanchery

Head of the Department
Department of Physics
MES KEVEEYAM COLLEGE
Valanchery, 676552

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MES KEVEEYAM COLLEGE VALACHERY

SHORT TERM COURSE ON INTRODUCTION TO PHYSICS LABORATORY

PHYSICS (CORE) – 36 Hrs

	COURSE OUTCOME	Hrs Allotted
CO1	Comprehend the fundamental elements of electronics and their application in electronic circuits	12
CO2	Build concrete foundation for optics experiments	6
CO3	To equip students to perform precise experiments in the lab	18

Unit 1 –Electronics

12hrs

Basic electronic circuit components, Passive components, Active components, electronic circuits, circuit design, signal waves, function generator, CRO, MS office

Unit 2 – Optics

6hrs

Parallel beams, lenses, focal length, telescope, microscope, dispersion, diffraction, interference, Laser, Prism, Transmission grating,

Unit 3 – Introduction to the physics lab

18hrs

Units and measurements, Accuracy and Errors in measurements, Least count, Plotting graphs, properties of matter, Time period, magnetic field, circular coil

Books for Reference:

1. Electronics lab manual – K A Navas (Vol 1 & 2)
2. BSc Practical physics – C L Arora
3. Practical Physics – S L Gupta & V Kumar

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List of experiments

1. To familiarize with the various passive components used in electronic circuits
2. To familiarize with the various active components used in electronic circuits
3. Learn how to operate function generator and cathode ray oscilloscope
4. Forward characteristics of a p-n junction diode
5. Learn soldering and desoldering in electronic circuits – Resistors in series and parallel
6. Graph plotting using excel – Ohm's law
7. Spectrometer – To determine the angle of minimum deviation
8. Laser grating – To standardize grating using laser
9. Focal length of lens – Boys method and liquid lens method
10. Vernier Caliper -
11. Screw Gauge -
12. Surface tension - Capillary rise method
13. Rigidity modulus – Torsion pendulum
14. Potentiometer – relation between voltage and balancing length – plot graph
15. Simple pendulum – g – plot graph
16. Magnetic field lines – plot field lines due to a bar and U type magnet
17. Circular coil – Variation of magnetic field with distance
18. Moment of a magnet – Tan A

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SHORT TERM COURSE ON INTRODUCTION PHYSICS
LABORATORY

PHYSICS (CORE) – 36 Hrs

TIME TABLE

SL. NO	DATE	DAY	TIME
1	27/9/2023	Wednesday	8:30-11:30
2	04/10/2023	Wednesday	8:30-11:30
3	18/10/2023	Wednesday	8:30-11:30
4	08/11/2023	Wednesday	8:30-11:30
5	15/11/2023	Wednesday	8:30-11:30
6	13/12/2023	Wednesday	8:30-11:30
7	03/01/2024	Wednesday	8:30-11:30
8	10/01/2024	Wednesday	8:30-11:30
9	17/01/2024	Wednesday	8:30-11:30
10	27/01/2024	Wednesday	8:30-11:30

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rdh
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Department of Physics
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Valanchery, 676552

FIRST YEAR

62

4/10/23

SL NO	NAME	INSIDE	OUTSIDE
1.	Ahmed jahan pk		
2.	Rushna .vp		
3.	Filli Farveena .cp		
4.	Shahana .p		
5.	Najiya Nasreen .p		
6.	Danisha		
7.	Fathima Anisla		
8.	Rasha fathima .k		
9.	Mahammed jiffen .k		
10.	Magra Hudha .k		
11.	Fidha jobin		
12.	Safna		
13.	Shahana		
14.	Rida Majeed		
15.	Adela .kp		
16.	Anamika .N		
17.	Shahala sharin		
18.	Fathima Fidha		
19.	Sharfana Sheri k.p		
20.	Ishrath fathima v.k		
21.	Anusree .m		
22.	Amratha .kp		
23.	Fathima shifa		
24.	Muhammed shahid .T		
25.	Ribin		
26.	Shabana thasni .Ek		
27.	Swalih bin Abdallah .A		
28.	Jasir .P		
29.	Nandana kp		
30.	Fathima nidha		
31.	Naheema .P		
32.	Rahfath n		
33.	Vni shamnas		
34.	Shanira .		

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27/9/23

I year

58

1	shahana.p	Shahana
2	Najiya Nasseer	Najiya
3	RUSHNA.V.P	Rushna
4	Filli farveena	Filli
5	Danisha.P	Danisha
6	Adelka K	Adelka
7	Shahana	Shahana
8	Fidha Jebin.V	Fidha
9	Marva Huda	Marva
10	Safna P	Safna
11	Ahmed Jahan PR	Ahmed
12	Swadith bin Abolulla A	Swadith
13	Anamika.N	Anamika
14	shartana sheri	shartana
15	Shahla shasun	Shahla
16	Shanaya.KV	Shanaya
17	Ishrat Fathima.V.K	Ishrat
18	VM Shannas	VM Shannas
19	Neheema.P	Neheema
20	Fathima Nida	Fathima
21	Amrutha.KP	Amrutha
22	Nandana.K.P	Nandana
23	Anusree.M	Anusree
24	Fathima Shifa	Fathima
25	Rasha Fathima.k	Rasha
26	Sabana Shasni G.K	Sabana
27	Mohammed Jipin.K	Mohammed
28	Jasir.P	Jasir
29	Mohammed shahid.T	Mohammed
30	Fathima Fidha UT	Fathima

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SL No	name	8/11/23	15/11/23
1	Shahana.p	Shahana	Shahana
2	Fathima Fidha uT	Fathima	Fathima
3	Ishrat Fathima.V.K	Ab.	Ab.
4	Adela kp	Adela	Adela
5	Shahana sheri k.p	Shahana	Shahana
6	Fathima Shifa-k	Fathima	Fathima
7	Waheema.p	Waheema	Waheema
8	Shahla Shasir	Shahla	Shahla
9.	Anamika N	Anamika	Anamika
10	Shahana	Shahana	Shahana
11	Safna Pv	Safna	Safna
12	Fathima Anila.kp	Fathima	Fathima
13	RUSTINA.V.P	Rustina	Rustina
14	Filli Farveeda.p	Filli	Filli
15.	Danisha	Danisha	Danisha
16	Nayyana Masreen	Nayyana	Nayyana
17	Rida mejeed	Rida	Rida
18	Nandana.k.p	Nandana	Nandana
19.	Amrutha.kp	Amrutha	Amrutha
20	Fidha Jebin.v	Fidha	Fidha
21	Rasha Fathima	Rasha	Rasha
22	Anusree.M	Anusree	Anusree
23	Mohammed Jifin.lc	Mohammed	Mohammed
24.	Shanya.c.v	Shanya	Shanya
25.	Ahmed Johan Pt	Ahmed	Ahmed
26	Y.M Shambas	Y.M	Y.M
27	Sawalib Bin Abdulla. A	Sawalib	Sawalib
28	Shabana Shasni.G.K	Shabana	Shabana
29	Jasir.P	Jasir	Jasir
30	Mohammed Shahid-T	Mohammed	Mohammed
31	Shah Maava Hudha	Shah	Shah
32	Fathima Nida	Fathima	Fathima

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No	name	in	out
1	Filii Farreena - P		
2.	Rushra . VP		
3.	Shabana . P		
4.	Danisha . P		
5.	Fidha jebin		
6.	Safna . PV		
7.	Fathima Fidha UT		
8	Shabana		
9.	Anamika N		
10	Adela KP		
11	Sharfana Sheri K.P		
12.	Amzutha . KP		
13	Sabana Thasni E. R		
14	Mohammed Jifin . K		
15	Ahmed Jahan PK		
16	Fathima Nideen		
17	VM Shannas		
18	Nahelima . P		
19	Anusree . M		
-20	Shamya . K. V		
21	Nandana . KP		
22	Rida mejeed		
23.	Fathima Shifa - K		
24	Naziya Nazreen . P		
25.	Josia . P		
26.	Rasha Fathima		
27.	Ribin Shunil		

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mdli
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Department of Physics
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no	name	in	out
1.	Fathima Fidha UT	Sahas	Sahas
2.	Sharbana sheri	Shari	Shari
3	Naheema P	Nahema	Nahema
4	Fathima Nida	Fathima	Fathima
5	Shabla Sharin	Shabla	Shabla
6	Shabana P	Shabana	Shabana
7	Safna PV	Safna	Safna
8	Anamika N	Anamika	Anamika
9.	Ishrath Fathima V.K	Ishrath	Ishrath
10.	Sharbana Thasni E.K	Sharbana	Sharbana
11.	Amrutha.KP	Amrutha	Amrutha
12.	Fathima shifa	Fathima	Fathima
13.	Nandana KP	Nandana	Nandana
14	Anusree M	Anusree	Anusree
15	Rushna V.P	Rushna	Rushna
16	Swalih Bin Abdulla. A	Swalih	Swalih
17	Najma Narseen. P	Najma	Najma
18	Fidha Tebin	Fidha	Fidha
19	Ahmed Sahar	Ahmed	Ahmed
20	Danisha	Danisha	Danisha
21	Mohammed Jifin. K	Mohammed	Mohammed
22	Lilli Farveena. CP	Lilli	Lilli
23	Shabana	Shabana	Shabana
24	Adela KP	Adela	Adela
25	Rida majid	Rida	Rida
26	Vm shammes	Vm	Vm
27	Shanaya. K.V	Shanaya	Shanaya
28	Mohammed Shahid. I	Mohammed	Mohammed
29	Jasir. P	Jasir	Jasir
30	Muhamad Kibin Shamil. P.K	Muhamad	Muhamad

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M. J. S.

Head of the Department
Department of Physics
MES KEVEEYAM COLLEGE
Valanchery, 676552

10/1/24 I phy

SL NO	Name	inside	outside
1	VM shannas	Sh	Sh
2	Shahana.p	Sh	Sh
3	Amrutha.k.p	Am	Am
4	Anusree.M	AN	AN
5	Nandana.k.p	Nandana	Nandana
6	Safna.PV	S	S
7	Anamika N	Anamika	Anamika
8	Shabana	Shabana	Shabana
9	Fathima Fidha UT	Fathima	Fathima
10	Ishrath Fathima	Ishrath	Ishrath
11	Shardana Sheri	Shardana	Shardana
12	Adela kp	Adela	Adela
13	Danisha.P	Danisha	Danisha
14	Najiya Nasrin	Najiya	Najiya
15	Narva Hudha	Narva	Narva
16	Fidha jabin.	Fidha	Fidha
17	Filli Farveena.	Filli	Filli
18	Shanya.k.v	Shanya	Shanya
19	Mohammed jifin.k	Mohammed	Mohammed
20	Rasha Fathima (9:35)	Rasha	Rasha
21	Mukel Ribin Shami	Mukel	Mukel
22	Jasir.P (9:45)	Jasir	Jasir
23	Mohammed Shabid (11)	Shabid	Shabid
24	Swalih bin Abdulh.A (9:34)	Swalih	Swalih
25	Fathima Shifa-k (9:45)	Fathima	Fathima

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12/1/24
 Head of the Department
 Department of Physics
 MES KEVEEYAM COLLEGE
 Valanchery, 676552

no	name	inside	outside
1)	Najiya Nazeen	Nia-h	Nia-h
2)	Ahmed Juhem	Oul	July
3)	RUSHNA.V.P	Rushna	Rushna
4)	Filli farveena C.P	Filli	Filli
5)	Fidha Jebin.V	Fidha	Fidha
6)	Marwa Huda	Marwa	Marwa
7)	Danisha.P	D.	D.
8)	Shahana.P	Shah	Lul
9)	Shahana	Shahana	Shahana
10)	Anamika N	Anamika	Anamika
11)	Mohammed Jifin K	Mo	Mo
12)	Adela K.P	Adela	Adela
13)	Rick mejeed.C	Rick	Rick
14)	Shahla Shagir	Shahla	Shahla
15)	Fathima Nida	Fathima	Fathima
16)	Naheema.P	Naheema	Naheema
17)	Sharfana sheri k.p	Sharfana	Sharfana
18)	Fathima Fidha U.T	Fathima	Fathima
19)	Anusree	Anusree	Anusree
20)	Nandhana K.P	Nandhana	Nandhana
21)	Ishraath fathima	Ishraath	Ishraath
22)	Sawalih Bin Abdulla. A	Sawalih	Sawalih
23)	Sabana thasnu .E.K	Sabana	Sabana
24)	VM shamnas	VM	VM
25)	Shanuya.K.V	Shanuya	Shanuya
26)	Fathima Shifa -K	Fathima	Fathima
27)	Mohammed shahid -T	Mohammed	Mohammed
28)	Jasir.P	Jasir	Jasir
29)	Muhammed Ribin shamil.P.K	Muhammed	Muhammed

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9:43

9:45

9:50

9:50

10:25

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KVM-CC-23-24/

Certificate

This is to certify that Filli Farveena C.P has successfully completed the certificate course on

“ KVM/CC/PHY/23-24/01- Introduction to Physics Laboratory ” conducted by the

Department of Physics, MES Keveeyam College, Valanchery

during the academic year 2023-24.


Ms. Jameela. M. K.
Co-ordinator


Course Facilitator


Head of the Department

Prof. Dr. K. P. Vinod Kumar
Principal





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Certificate

This is to certify that Anamika N has successfully completed the certificate course on

“ KVM/CC/PHY/23-24/01- Introduction to Physics Lab ” conducted by the

Department of Physics, MES Keveeyam College, Valanchery

during the academic year 2023-24.


Ms. Jameela. M. K

Co-ordinator



Course Facilitator



Head of the Department

Prof. Dr. K. P. Vinod Kumar

Principal

