

1. Details of the Teacher/ Academic :

Name:	SHUBHA GOKHALE
Date of Birth	12.10.1962
Date of Joining in IGNOU:	07.09.2000
Current Designation :	PROFESSOR OF PHYSICS
Level as on date :	Level-14
Highest Educational Qualifications	M.Sc. (PHYSICS), PH.D.(PHYSICS) LLM (INTELLECTUAL PROPERTY RIGHTS)
School/ Division/ Institute/ Centre/ Cell	SCHOOL OF SCIENCES

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:

Name of the recipient	Honour /Award/ Fellowship name/ membership of Professional body/ Statutory body	Agency name /Name of statutory body/ institution/ Apex body	Period
	Second best research paper award	IGNOU	2005 (20 th Convocation)
	Post Doctoral fellowship to conduct research at Technical University, Mun Germany	DAAD	1994-1996
	INSA fellowship under Scientific Exchange Programme to conduct research at the Fritz-Habe Institut der Max-Planck-Gesellschaft , Berlin, Germ	INSA	November 2002- January 2003
	S.S.Joshi award for Topping in M.Sc. (Physics)	Pune University	1985

3. Books/Book Chapter/ SLM Units: PLEASE REFER APPENDIX-1

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN No

SNo.	Name of Author1/ Editor 1, & Co- author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.

4. Research Articles/Publications: PLEASE REFER APPENDIX-2

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.							
2.							

5. Policy Documents Reports/ Mimeos:

SNo.	Title	Institution/ Agency	Year
1.	IPR POLICY FOR IGNOU	IGNOU	2015

6. MOOCs/ eSLMs/ eModules developed : NIL

SNo.	Author/ Co-author (if any)	Title	Credits	Level	Host Portal: (SWAYAM/ NPTEL/ NMEICT/ ePG Pathshala/ Any Other)	Year	Weblink

7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)

PLEASE REFER APPENDIX-3 (TOTAL : 12)

SNo.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year

8. Consultancy assignment (if any): NIL

SNo.	Organization/ agency	Cost, title of consultancy	Duration

9. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing):

SNo.	Agency	Amount	Duration with dates	Status i.e. ongoing/ completed
1	IUAC, NEW DELHI	Rs. 2,00,000/-	AUG 2009-JUL 2013	COMPLETED

10. Details of PhD and MPhil Scholars (including those awarded degree):

SNo.	Name and enrolment no:	Year of registration	Year of completion/ award
1.	RICHA JAIN (144500034)	JANUARY 2014	2021

11. Details of Programmes/ Courses coordinated/ written/ edited/ translated (if applicable):

PLEASE REFER APPENDIX-4

SN o.	Programme	Course	Unit (print)/ Audio/Video/ eSLM	Coordinated/Written / Edited (content/ language/ format)/ Translated	Period

12. Training programmes designed and conducted, duration and dates : NIL

SNo.	Programme	Dates	Place	Number of Participants

13. Details of Counselling sessions conducted:

SNo.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
1	B.Sc.	PHE-10	EMPC	2005-2024	~20 sessions of 45 min each	Teleconference
2	B.Sc.	PHE-16	EMPC	2005-2014	~20 sessions of 45 min each	Teleconference
3	PGDIPR	MIP-001 to 008	EMPC	2005-2007	~ 50 sessions of 45 min	Teleconference

4	B.Sc.	Physics Electives	EMPC	2016-2025	~30 sessions of 60 min each	Radio counselling
5	M.Sc.	Physics	EMPC	2023-25	06 sessions of 60 min each	Radio counselling
6	CPLT	Physics Electives	EMPC	2018-2025	05 Sessions of 60 min each	Radio counselling
7	ACE	ACE	VCO	20.03.2019	01 session of 45 min	Web conferencing

14. Details of Patents granted (if any): NIL

15. Contribution to IGNOU's corporate life:

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1.	Member	Board of Management	Nov-2022 - Oct-2024
2.	Member	Academic Council	Aug 2014- May 2015
3.	Member	Guest House Committee	2013-2018
4.	Member	House Allotment Committee	2018-2020

16. Administrative position/s held in the University (even as in charge) : NIL

SNo.	Designation	Period

17. Any other contribution/information

Signature of Teacher /Academic

APPENDIX-1: BOOKS/BOOK CHAPTERS/UNITS(SLM)

APPENDIX-1A

CHAPTERS IN BOOKS

SNo.	Name of Author1/ Editor 1, & Co- author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	R. Rubia, Y. Remy, N. Rajeshwari, I. Sidhwani, K.Vasdev, M. Joshi, Shubha Gokhale V. Luthra Ed.: V. Rajendran, P. Prabu , K. E. Geckeler	Synthesis, Characterization and Investigations of Antimicrobial Properties of Silver Nanoparticles Via a Green Method Using Mulberry (Morus Alba L) Tree Leaves <i>In the book:</i> Nano Biomaterials	India	Bloomsbury Publishing Pvt Ltd.	2013	149-154	10: 9382563377/ 13: 9789382563372
2.	S.K.Kulkarni, M.Vedpathak, A.S.Nigavekar, Shubha Gokhale, R.Krishnan, H.Lassari and M.Tessier Ed.: S.Banerjee and R.V.Ramanujan	Synthesis and characterization of metallic multilayer films <i>In the book:</i> Advances in Physical Metallurgy	Netherlands	Golden Breach Publishers	1996	143-149	2-88449-210-0

APPENDIX-1B

IGNOU UNITS

Sr. Nr	Name of the teacher/ other academic	Title of the book	Title of the chapter	Year of publication	ISBN of the publication	Affiliating Institute at the time of publication	Name of the publisher	Link of the publication (if any)
1.	Prof. Shubha Gokhale	Contemporary Intellectual Property Issues (MIP-008)	IP and Biotechnology	2005	81-266-1951-1	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
2.	Prof. Shubha Gokhale	Contemporary Intellectual Property Issues (MIP-008)	Protection of Genetic Resources	2005	81-266-1951-1	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
3.	Prof. Shubha Gokhale	Communication Physics (PHE-16)	Audio Communication	2006	81-266-2617-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
4.	Prof. Shubha Gokhale	Communication Physics (PHE-16)	Video Communication	2006	81-266-2617-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
5.	Prof. Shubha Gokhale	संचार भौतिकी (PHE-16)	श्रव्य संचार	2007	978-81-266-2841-3	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/20087

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6.	Prof. Shubha Gokhale	संचार भौतिकी (PHE-16)	वीडियो संचार	2007	978-81-266-2841-3	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/20089
7.	Prof. Shubha Gokhale	Physics Laboratory-I (BPHL-103)	Measurement of Low Resistance using Carey Foster's Bridge	2008	978-81-266-3357-9	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/18820
8.	Prof. Shubha Gokhale	Physics Laboratory-I (BPHL-103)	Frequency Response of AC Circuits	2008	978-81-266-3357-9	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/18822
9.	Prof. Shubha Gokhale	Physics Laboratory-I (BPHL-103)	Experiments using Semiconductor Diodes	2008	978-81-266-3357-9	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/18824
10.	Prof. Shubha Gokhale	Physics Laboratory-I (BPHL-103)	A Study of Transistor Characteristics	2008	978-81-266-3357-9	IGNOU, New Delhi	IGNOU, New Delhi	http://hdl.handle.net/123456789/18825
11.	Prof. Shubha Gokhale	भौतिकी प्रयोगशाला -I (BPHL-103)	कैरी फोस्टर ब्रिज द्वारा न्यून प्रतिरोध मापन	2008	978-81-266-3393-7	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in//handle/123456789
12.	Prof. Shubha Gokhale	भौतिकी प्रयोगशाला -I (BPHL-103)	प्रत्यावर्ती धारा परिपथों की आवृत्ति अनुक्रिया	2008	978-81-266-3393-7	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in//handle/123456789
13.	Prof. Shubha Gokhale	भौतिकी प्रयोगशाला -I (BPHL-103)	अर्धचालक डायोडों की सहायता से किये जाने वाले प्रयोग	2008	978-81-266-3393-7	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in//handle/123456789

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14.	Prof. Shubha Gokhale	भौतिकी प्रयोगशाला -I (BPHL-103)	ट्रांजिस्टर अभिलक्षणिकों का अध्ययन	2008	978-81-266-3393-7	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
15.	Prof. Shubha Gokhale	Thermo-dynamics and Statistical Mechanics (BPHE-106)	Basic Concepts of Statistical Mechanics	2016	978-93-86607-73-7	IGNOU, New Delhi	IGNOU, New Delhi	
16.	Prof. Shubha Gokhale	Thermo-dynamics and Statistical Mechanics (BPHE-106)	The Partition Function	2016	978-93-86607-73-7	IGNOU, New Delhi	IGNOU, New Delhi	
17.	Prof. Shubha Gokhale	Thermo-dynamics and Statistical Mechanics (BPHE-106)	Quantum Statistical Distribution	2016	978-93-86607-73-7	IGNOU, New Delhi	IGNOU, New Delhi	
18.	Prof. Shubha Gokhale	Thermo-dynamics and Statistical Mechanics (BPHE-106)	Application of Quantum Statistics	2016	978-93-86607-73-7	IGNOU, New Delhi	IGNOU, New Delhi	
19.	Prof. Shubha Gokhale	ऊष्मागतिकी और सांख्यिकीय यांत्रिकी (BPHE-106)	सांख्यिकीय यांत्रिकी की आधारभूत संकल्पनाएं	2016	978-93-86607-76-8	IGNOU, New Delhi	IGNOU, New Delhi	

20.	Prof. Shubha Gokhale	ऊष्मागतिकी और सांख्यिकीय यांत्रिकी (BPHE-106)	संवितरण फलन	2016	978-93-86607-76-8	IGNOU, New Delhi	IGNOU, New Delhi	
21.	Prof. Shubha Gokhale	ऊष्मागतिकी और सांख्यिकीय यांत्रिकी (BPHE-106)	क्वांटम सांख्यिकीय बंटन	2016	978-93-86607-76-8	IGNOU, New Delhi	IGNOU, New Delhi	
22.	Prof. Shubha Gokhale	ऊष्मागतिकी और सांख्यिकीय यांत्रिकी (BPHE-106)	क्वांटम सांख्यिकी के अनुप्रयोग	2016	978-93-86607-76-8	IGNOU, New Delhi	IGNOU, New Delhi	
23.	Prof. Shubha Gokhale	Laboratory Techniques in Physics (CLT-104)	Common Laboratory Tools	2016	978-93-86100-84-9	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
24.	Prof. Shubha Gokhale	भौतिकी में प्रयोगशाला तकनीकें (CLT-104)	सामान्य प्रयोगशाला औजार	2016	978-93-86375-41-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
25.	Prof. Shubha Gokhale	Basic Experiments in Physics (CLTL-104)	Using and Maintaining Basic Mechanical Tools	2016	978-93-86100-99-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
26.	Prof. Shubha Gokhale	Basic Experiments in Physics (CLTL-104)	Length Measurement	2016	978-93-86100-99-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

27.	Prof. Shubha Gokhale	Basic Experiments in Physics (CLTL-104)	Using and Maintaining a Multimeter	2016	978-93-86100-99-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
28.	Prof. Shubha Gokhale	भौतिकी के आधारभूत प्रयोग (CLTL-104)	बुनियादी यांत्रिक औजारों का उपयोग और रखरखाव	2016	978-93-86375-43-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
29.	Prof. Shubha Gokhale	भौतिकी के आधारभूत प्रयोग (CLTL-104)	लम्बाई का मापन	2016	978-93-86375-43-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
30.	Prof. Shubha Gokhale	भौतिकी के आधारभूत प्रयोग (CLTL-104)	बहुलमापी का उपयोग और रखरखाव	2016	978-93-86375-43-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
31.	Prof. Shubha Gokhale	Mechanics: Laboratory (BPHCL-132)	Measurement and Error Analysis	2019	978-93-89499-94-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
32.	Prof. Shubha Gokhale	Mechanics: Laboratory (BPHCL-132)	Graphing	2019	978-93-89499-94-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
33.	Prof. Shubha Gokhale	Mechanics: Laboratory (BPHCL-132)	Measurement of Length	2019	978-93-89499-94-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
34.	Prof. Shubha Gokhale	Mechanics: Laboratory (BPHCL-132)	Determination of Acceleration due to Gravity by Kater's Pendulum	2019	978-93-89499-94-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

35.	Prof. Shubha Gokhale	Mechanics: Laboratory (BPHCL-132)	Study of Lissajous Figures using a Cathode Ray Oscilloscope	2019	978-93-89499-94-0	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
36.	Prof. Shubha Gokhale	यांत्रिकी: प्रयोगशाला (BPHCL-132)	मापन और त्रुटि विश्लेषण	2019	978-93-89499-99-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
37.	Prof. Shubha Gokhale	यांत्रिकी: प्रयोगशाला (BPHCL-132)	आलेखन	2019	978-93-89499-99-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
38.	Prof. Shubha Gokhale	यांत्रिकी: प्रयोगशाला (BPHCL-132)	लंबाई का मापन	2019	978-93-89499-99-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
39.	Prof. Shubha Gokhale	यांत्रिकी: प्रयोगशाला (BPHCL-132)	केटर के लोलक द्वारा गुरुत्वीय त्वरण का निर्धारण	2019	978-93-89499-99-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
40.	Prof. Shubha Gokhale	यांत्रिकी: प्रयोगशाला (BPHCL-132)	कैथोड किरण दोलनदर्शी द्वारा लिसाजू आकृतियों का अध्ययन	2019	978-93-89499-99-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
41.	Prof. Shubha Gokhale	Electricity and Magnetism: Laboratory (BPHCL-134)	Measurements with a Multimeter	2019	978-93-89969-40-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
42.	Prof. Shubha Gokhale	Electricity and Magnetism: Laboratory (BPHCL-134)	Study of Magnetization in a Magnetic Material	2019	978-93-89969-40-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

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43.	Prof. Shubha Gokhale	Electricity and Magnetism: Laboratory (BPHCL-134)	Study of a Series RC Circuit	2019	978-93-89969-40-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
44.	Prof. Shubha Gokhale	Electricity and Magnetism: Laboratory (BPHCL-134)	Study of a Series LCR Circuit	2019	978-93-89969-40-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
45.	Prof. Shubha Gokhale	Electricity and Magnetism: Laboratory (BPHCL-134)	Study of a Parallel LCR Circuit	2019	978-93-89969-40-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
46.	Prof. Shubha Gokhale	विद्युत और चुंबकत्व : प्रयोगशाला (BPHCL-134)	बहुलमापी के उपयोग से मापन	2019	978-93-89969-41-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
47.	Prof. Shubha Gokhale	विद्युत और चुंबकत्व : प्रयोगशाला (BPHCL-134)	चुंबकीय पदार्थ में चुंबकन का अध्ययन	2019	978-93-89969-41-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
48.	Prof. Shubha Gokhale	विद्युत और चुंबकत्व : प्रयोगशाला (BPHCL-134)	श्रेणी RC परिपथ का अध्ययन	2019	978-93-89969-41-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
49.	Prof. Shubha Gokhale	विद्युत और चुंबकत्व : प्रयोगशाला (BPHCL-134)	श्रेणी LCR परिपथ का अध्ययन	2019	978-93-89969-41-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

50.	Prof. Shubha Gokhale	विद्युत और चुंबकत्व : प्रयोगशाला (BPHCL-134)	पार्श्व LCR परिपथ का अध्ययन	2019	978-93-89969-41-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
51.	Prof. Shubha Gokhale	Thermal Physics and Statistical Mechanics (BPHCT-135)	Thermodynamic Description of a System	2020	978-81-948104-4-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
52.	Prof. Shubha Gokhale	Thermal Physics and Statistical Mechanics (BPHCT-135)	The Zeroth Law	2020	978-81-948104-4-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
53.	Prof. Shubha Gokhale	Thermal Physics and Statistical Mechanics (BPHCT-135)	The First Law and its Applications	2020	978-81-948104-4-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/64772
54.	Prof. Shubha Gokhale	ऊष्मीय भौतिकी और सांख्यिकीय यांत्रिकी (BPHCT-135)	तंत्र का ऊष्मगतिकीय विवरण	2020	978-93-90773-14-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
55.	Prof. Shubha Gokhale	ऊष्मीय भौतिकी और सांख्यिकीय यांत्रिकी (BPHCT-135)	शून्य कोटि नियम	2020	978-93-90773-14-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/70158
56.	Prof. Shubha Gokhale	ऊष्मीय भौतिकी और सांख्यिकीय यांत्रिकी (BPHCT-135)	प्रथम कोटि नियम और इसके अनुप्रयोग	2020	978-93-90773-14-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

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57.	Prof. Shubha Gokhale	Thermal Physics and Statistical Mechanics : Laboratory (BPHCT-136)	Study of Variation of Thermo-EMF with Temperature	2020	978-93-90496-34-1	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
58.	Prof. Shubha Gokhale	ऊष्मीय भौतिकी और सांख्यिकीय यांत्रिकी: प्रयोगशाला (BPHCL-136)	तापमान के साथ ताप-विद्युत् वाहक बल के विचरण का अध्ययन	2020	978-93-90496-34-1	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
59.	Prof. Shubha Gokhale	Waves and Optics (BPHCT-137)	Physics of Lasers	2021	978-93-5568-179-9	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/81009
60.	Prof. Shubha Gokhale	Waves and Optics (BPHCT-137)	Properties and Applications of Lasers	2021	978-93-5568-179-9	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
61.	Prof. Shubha Gokhale	Waves and Optics (BPHCT-137)	Fibre Optics	2021	978-93-5568-179-9	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
62.	Prof. Shubha Gokhale	तरंगें और प्रकाशिकी (BPHCT-137)	लेसरो की भौतिकी	2021	978-93-5568-037-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
63.	Prof. Shubha Gokhale	तरंगें और प्रकाशिकी (BPHCT-137)	लेसर के गुणधर्म और अनुप्रयोग	2021	978-93-5568-037-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/80986

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64.	Prof. Shubha Gokhale	तरंगें और प्रकाशिकी (BPHCT-137)	तंतु प्रकाशिकी	2021	978-93-5568-037-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
65.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHET-143)	Transistor Circuit Analysis	2022	978-93-5568-458-5	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
66.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHET-143)	Amplifiers	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
67.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHET-143)	Oscillators	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
68.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHET-143)	Regulated Power Supply	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
69.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHET-143)	Operational Amplifier	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

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70.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHE-143)	Applications of Operational Amplifier	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
71.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHE-143)	Cathode Ray Oscilloscope	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
72.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation (BPHE-143)	Timer Circuits	2022	978-93-5568-459-2	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
73.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	ट्रांजिस्टर परिपथ विश्लेषण	2022	978-93-464-6	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
74.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	प्रवर्धक	2022	978-93-5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
75.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और	दोलित्र	2022	978-93-5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

		उपकरणशास्त्र (BPHE-143)						
76.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	नियमित शक्ति प्रदाय	2022	978-93- 5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
77.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	संक्रियात्मक प्रवर्धक	2022	978-93- 5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
78.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	संक्रियात्मक प्रवर्धक के अनुप्रयोग	2022	978-93- 5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
79.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	कैथोड किरण दोलनदर्शी	2022	978-93- 5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
80.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र (BPHE-143)	कालद परिपथ	2022	978-93- 5568-653-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

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81.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Relalisation of Logic Gates using NAND Gates	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
82.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Minimisation of Logic Circuits	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
83.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Realisation of Adder Circuits using Logic Gates	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
84.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Study of I-V Characteristics of Special Diodes (Zener and LED)	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
85.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Study of Transistor Characteristics in CE Mode and Design of CE amplifier	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
86.	Prof. Shubha	Digital and Analog Circuits	Design of Op Amp Inverting and Non-	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

	Gokhale	and Instrumentation: Laboratory (BPHEL-144)	inverting Amplifiers					
87.	Prof. Shubha Gokhale	Digital and Analog Circuits and Instrumentation: Laboratory (BPHEL-144)	Design of Op Amp Differentiator and Integrator	2022	978-93-5568-311-3	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
88.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHEL-144)	NAND गेटों का उपयोग करके तर्क गेटों का क्रियान्वयन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
89.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHEL-144)	तर्क गेटों का न्यूनतमीकरण	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
90.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHEL-144)	तर्क गेटों का उपयोग करके योजक परिपथों का क्रियान्वयन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

91.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHE-144)	विशेष डायोडों (जेनर और LED) के I - V अभिलक्षणिकों का अध्ययन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
92.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHE-144)	CE विधा में ट्रांजिस्टर अभिलक्षणिकों का अध्ययन और CE प्रवर्धक का डिजाइन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
93.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHE-144)	ऑप एम्प प्रतिलोमी और अप्रतिलोमी प्रवर्धकों का डिजाइन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
94.	Prof. Shubha Gokhale	अंकीय एवं अनुरूप परिपथ और उपकरणशास्त्र: प्रयोगशाला (BPHE-144)	ऑप एम्प अवकलक और समाकलक का डिजाइन	2022	978-93-5568-668-8	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
95.	Prof. Shubha Gokhale with Dr. Bhagyas-	Electronics Laboratory (MPHL-010)	Study of UJT characteristics	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789

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	hree Joshi							
96.	Prof. Shubha Gokhale with Dr. Bhagyas-hree Joshi	Electronics Laboratory (MPHL-010)	Study of MOSFET characteristics	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
97.	Prof. Shubha Gokhale with Dr. Bhagyas-hree Joshi	Electronics Laboratory (MPHL-010)	Study of photodiode characteristics	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
98.	Prof. Shubha Gokhale with Dr. Bhagyas-hree Joshi	Electronics Laboratory (MPHL-010)	Study of CE amplifier at small and large signals	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
99.	Prof. Shubha Gokhale with Dr. Bhagyas-hree Joshi	Electronics Laboratory (MPHL-010)	Design, assembly and testing of <i>R-C</i> Oscillator	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
100.	Prof. Shubha Gokhale with Dr. Bhagyas-hree Joshi	Electronics Laboratory (MPHL-010)	Study of differential amplifier	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

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101.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Design, assembly and testing of IC 723 based power supply	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
102.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Study of wave shaping circuits	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
103.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Design, assembly and testing of Schmitt trigger and function generator	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
104.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Design, assembly and testing of Multivibrators	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
105.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Design, assembly and testing of DAC	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678
106.	Prof. Shubha	Electronics Laboratory	Design, assembly and testing of Amplitude	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/12345678

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	Gokhale with Dr. Bhagyashree Joshi	(MPHL-010)	Modulator					
107.	Prof. Shubha Gokhale with Dr. Bhagyashree Joshi	Electronics Laboratory (MPHL-010)	Micro-controller programming	2024	978-93-6106-337-4	IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789
108.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Introduction of Nanostructures	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/112027
109.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Growth of Nanostructures	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/112027
110.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanomaterial Synthesis by Physical Methods	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/112027
111.	Prof. Shubha Gokhale with Prof.	Nanoscience (MPHE-027)	Chemical Synthesis of Nanomaterials	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankosh.ac.in/handle/123456789/112027

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	Sulabha Kulkarni							027
112.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Green Synthesis and Self Assembly of Nanoparticles	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/112 027
113.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Carbon Nanostructures	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/115 109
114.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanomaterials Beyond Carbon Family	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/115 109
115.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Metal Nanoparticles (Plasmonics)	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/115 109
116.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Semiconductor Nanoparticles (Quantum Dots)	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/115 109

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117.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanocomposites and Nanosensors	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/116133
118.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanotechnology in Medical Science	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/116133
119.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanotechnology in Energy Sector	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/116133
120.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Nanotechnology for Environment Applications	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/116133
121.	Prof. Shubha Gokhale with Prof. Sulabha Kulkarni	Nanoscience (MPHE-027)	Miscellaneous Applications of Nanotechnology	2025		IGNOU, New Delhi	IGNOU, New Delhi	http://egyankos.h.ac.in//handle/123456789/116133

APPENDIX-2:LIST OF RESEARCH PUBLICATIONS

1. In International Refereed Journals:

Sr. No.	Title of paper	Name of the author/s	Department School/ Division/ Centre/ Unit/ Cell of the teacher/ and other academic	Name of journal, volume no., pages	Year of publication	ISSN number	Link of the publication (if any)
1.	Optimization of magnetic properties of $MnFe_2O_4$ by modulating molarity of NaOH as precipitating agent	Sudha Gulati, Shubha Gokhale and Vandna Luthra	Discipline of Physics, School of Sciences	International Journal of Materials Research 115(2024) 266-273	2024	1862-5282 (print); 22195-8556 (eISSN)	https://doi.org/10.1515/ijmr-2023-0017
2.	Effects of Yb Doping on Structural, Morphological, and Temperature Dependent Magnetic Properties of $MnFe_2O_4$ Nanoparticles	Sudha Gulati, Shubha Gokhale and Vandna Luthra	Discipline of Physics, School of Sciences	Journal of Superconductivity and Novel Magnetism 36 (2023) 1033-1041	2023	1557-1939 (Print); 1557-1947 (Online)	https://doi.org/10.1007/s10948-023-06534-3
3.	Structural, morphological and optical properties of gadolinium doped magnetite nanoparticles	Richa Jain, Vandna Luthra, Manju Arora and Shubha Gokhale	Discipline of Physics, School of Sciences	Advanced Science, Engineering and Medicine 11 (2019) 88–91	2019	2164-6627 (print); EISSN: 2164-6635 (online)	https://doi.org/10.1166/asem.2019.2313

4.	Dysprosium doping induced correlated electrical and optical behavior of magnetite	Richa Jain, Vandna Luthra and Shubha Gokhale	Discipline of Physics, School of Sciences	AIP Conference Proceedings 2136 (2019) 040002	2019	0094-243X (print) 1551-7616 (online)	https://doi.org/10.1063/1.5120916
5.	Infrared Spectroscopic Study of Magnetic Behavior of Dysprosium Doped Magnetite Nanoparticles	Richa Jain, Vandna Luthra, Manju Arora and Shubha Gokhale	Discipline of Physics, School of Sciences	Journal of Superconductivity and Novel Magnetism 32 (2019) 325–333	2019	1557-1939 (Print); 1557-1947 (Online)	https://doi.org/10.1007/s10948-018-4717-5
6.	Probing influence of rare earth ions (Er ³⁺ , Dy ³⁺ and Gd ³⁺) on structural, magnetic and optical properties of magnetite nanoparticles	Richa Jain, Vandna Luthra and Shubha Gokhale	Discipline of Physics, School of Sciences	Journal of Magnetism and Magnetic Materials 456 (2018) 179–185	2018	0304-8853	https://doi.org/10.1016/j.jmmm.2018.02.029
7.	Dysprosium doping induced shape and magnetic anisotropy of Fe _{3-x} Dy _x O ₄ (x=0.01–0.1) nanoparticles	Richa Jain, Vandna Luthra and Shubha Gokhale	Discipline of Physics, School of Sciences	Journal of Magnetism and Magnetic Materials 414 (2016) 111–115	2016	0304-8853	http://dx.doi.org/10.1016/j.jmmm.2016.04.069
8.	Modifying the morphology and magnetic properties	Shubha Gokhale, S. Lamba, Neha Kumari,	Discipline of Physics, School of Sciences	Nuclear Inst. and Methods in Physics Research,	2014	0168-583X	https://doi.org/10.1016/j.nimb.2014.04.020

	of magnetic nanoparticles using swift heavy ion irradiation	Bhupendra Singh, D.K. Avasthi and S.K. Kulkarni		B 333 (2014) 64-68			
9.	A magnetic nano-composite soft polymeric membrane	A. Singh, M. Shirolkar, M. Limaye, Shubha Gokhale, Chantal Khan-Malek and S. K. Kulkarni	Discipline of Physics, School of Sciences	Microsystem Technologies 19 (2013) 409	2013	0946-7076 (Print) 1432-1858 (Online)	https://doi.org/10.1007/s00542-012-1646-2
10.	Iron substitution in CdSe nanoparticles: Magnetic and optical properties	Shashi B. Singh, Mukta Limaye, S. K. Date, Shubha Gokhale, and Sulabha Kulkarni	Discipline of Physics, School of Sciences	Physical Review. B 80 (2009) 235421	2009	2469-9950 (print) 2469-9969 (online)	https://doi.org/10.1103/PhysRevB.80.235421
11.	Template-free ZnS nanorod synthesis by microwave irradiation	Mukta V. Limaye, Shubha Gokhale, S. A. Acharya and S. K. Kulkarni	Discipline of Physics, School of Sciences	Nanotechnology 19 (2008) 415602	2008	Online : 1361-6528/ Print : 0957-4484	https://doi.org/10.1088/0957-4484/19/41/415602
12.	Self-organization of Pb thin films on Cu(111) induced by quantum size effects	J. H. Dil, J.W. Kim, Shubha Gokhale, M. Tallarida and K. Horn	Discipline of Physics, School of Sciences	Physical Review B 70 (2004) 045405	2004	2469-9950 (print) 2469-9969 (online)	https://doi.org/10.1103/PhysRevB.70.045405

13.	Probing interface electronic structure with overlayer quantum well resonances: Al/Si (111)	L.Abelle, C.Rogero, P.Kratzer, Shubha Gokhale and K.Horn	Discipline of Physics, School of Sciences	Physical Review Letters 87 (2001) 156801-1	2001	0031-9007 (print)/ 1079-7114 (online)	https://doi.org/10.1103/PhysRevLett.87.156801
14.	Quantum well states in ultrathin aluminium films on Si(111)	L. Abelle, C.Rogero, Shubha Gokhale, S. Kulkarni and K.Horn	Discipline of Physics, School of Sciences	Surface Science 482-485 (2001) 488	2001	0039-6028	https://doi.org/10.1016/S0039-6028(01)000845-1
15.	Silicon bonding for ultrahigh vacuum surface science studies	Shubha Gokhale, A. Fink, P.Trischberger K. Eberle and W.Widdra	Discipline of Physics, School of Sciences	Journal of Vacuum Science Technology A19 (2001) 706	2001	0734-2101	https://doi.org/10.1116/JVST.19.1.1350997
16.	Surface morphology and electronic structure of Ge/Si(111) 7×7 system	A.Lobo, Shubha Gokhale, and S.Kulkarni	Discipline of Physics, School of Sciences	Applied Surface Science 173 (2001) 270	2001	0169-4332	https://doi.org/10.1016/S0169-4332(00)00915-6
17.	Temperature-dependent impedance anomaly, microwave GMR	B.K. Kuanr, Shubha Gokhale, M. Vedpathak, A.V. Kuanr and	Discipline of Physics, School of Sciences	Journal of Physics D: Applied Physics 33 (2000) 34	2000	Online 1361-6463 Print 0022-3727	https://doi.org/10.1088/0022-3727/33/1/306

	and exchange coupling in thin Ni/Cu multilayered films	G. Nimtz					
18.	Deposition and characterization of $\text{Cd}_x\text{Hg}_{1-x}\text{Te}$ films electroplated from a non-aqueous bath	J.P. Nair, R. Jayakrishnan, N.B. Chaure, Shubha Gokhale, A.Lobo, S.K. Kulkarni and R.K. Pandey	Discipline of Physics, School of Sciences	Journal of Physics and Chemistry of Solids 60 (1999) 1693	1999	0022-3697	https://doi.org/10.1016/S0022-3697(99)00030-X
19.	Studies with Ni/Ti multilayer films using x-ray photoelectron spectroscopy and neutron reflectometry: Microscopic characterization of structure and chemical composition	M.Vedpathak, S.Basu, Shubha Gokhale and S.K.Kulkarni	Discipline of Physics, School of Sciences	Thin Solid Films 335 (1998) 13	1998	0040-6090	https://doi.org/10.1016/S0040-6090(98)00863-3
20.	Density functional investigations of the geometric and electronic structure of Ethylene	U.Birkenheuer, U.Gutdeutsch, N. Rösch, A.Fink, Shubha	Discipline of Physics, School of Sciences	Journal of Chemical Physics 108 (1998) 9868	1998	0021-9606	https://doi.org/10.1063/1.476425

	adsorbed on Si(001)	Gokhale, P.Trischberger, D.Menzel and W.Widdra					
21.	One-dimensional delocalized adsorbate Bloch states on a semiconductor surface C ₂ H ₄ /Si(001)–(2×1)	W. Widdra, A. Fink, Shubha Gokhale, P. Trischberger, D. Menzel, U. Birkenheuer, U. Gutdeutsch and N. Rösch	Discipline of Physics, School of Sciences	Physics Review Letters 80 (1998) 4269	1998	0031-9007 (print) 1079-7114 (online)	https://doi.org/10.1103/PhysRevLett.80.4269
22.	Electronic structure of benzene adsorbed on single domain Si(001)–(2X1) : A combined experimental and theoretical study	Shubha Gokhale, P. Trischberger, D. Menzel, W. Widdra, H. Dröge, H.-P. Steinrück, U. Birkenheuer, U. Gutdeutsch and N. Rösch	Discipline of Physics, School of Sciences	Journal of Chemical Physics 108 (1998) 5554	2008	0021-9606	https://doi.org/10.1063/1.475945
23.	One dimensional xenon band structures on hydrogen modified and stepped	P.Trischberger, H. Dröge, Shubha Gokhale, J.Henk, H.-P.	Discipline of Physics, School of Sciences	Surface Science 377-379 (1997) 155	1997	0039-6028	https://doi.org/10.1016/S0039-6028(96)01338-6

	platinum surfaces	Steinrück, W. Widdra and D.Menzel					
24.	One dimensional band structure - rare gases on Pt(110) 1X 2	M.Weinelt, P. Trischberger, W.Widdra, K.Eberle, P.Zebisch, Shubha Gokhale, D. Menzel, J. Henk, R.Feder, H. Droge and H.-P. Steinruck	Discipline of Physics, School of Sciences	Physical Review B 52 (1995) R-17048	1995	2469-9950 (print) 2469-9969 (online)	https://doi.org/10.1103/PhysRevB.52.r17048
25.	Dielectric function and optical conductivity of TiO _x (0.8 < x < 1.3) determined from electron energy loss spectroscopy	Shubha Gokhale, S. R. Barman and D.D. Sarma	Discipline of Physics, School of Sciences	Physical Review B 52 (1995) 14526	1995	2469-9950 (print) 2469-9969 (online)	https://doi.org/10.1103/PhysRevB.52.14526
26.	Chemical reactivity and band off-set at CdS/Si interface	M.Kundu, S.Mahamuni, Shubha Gokhale and S.K.Kulkarni	Discipline of Physics, School of Sciences	Applied Surface Science 68 (1993) 95	1993	0169-4332	https://doi.org/10.1016/0169-4332(93)90218-Z
27.	X-ray photoelectron spectroscopy analysis of SS 304 samples treated with argon glow	S.Anjali, V.P.Salvi, S.V.Gogawale, S.K.Kulkarni and Shubha	Discipline of Physics, School of Sciences	Vacuum 43 (1992) 1197	1992	0042-207X	https://doi.org/10.1016/0042-207X(92)90023-P

	discharge conditioning	Gokhale					
28.	Chemical interaction at Tm/Si(111) interface	Shubha Gokhale, S. Mahamuni, K.Joshi, A.S. Nigavekar and S.K.Kulkarni	Discipline of Physics, School of Sciences	Surface Science 257 (1991) 157.	1991	0039-6028	https://doi.org/10.1016/0039-6028(91)90788-7
29.	Photoemission and x-ray diffraction study of Er/Si(111) interface.	Shubha Gokhale, S. Mahamuni, S. Deshmukh, V. J. Rao, A. S. Nigavekar and S.K.Kulkarni	Discipline of Physics, School of Sciences	Surface Science 237 (1990) 127	1990	0039-6028	https://doi.org/10.1016/0039-6028(90)90525-D
30.	XPS and XRD investigations of Dy/Si interface	Shubha Gokhale, N.Ahmed, S.Mahamuni, V.J.Rao, A.S,Nigavekar and S.K.Kulkarni	Discipline of Physics, School of Sciences	Surface Science 210 (1989) 85	1989	0039-6028	https://doi.org/10.1016/0039-6028(89)90104-0

2. In National Journals:

S. No	Title of paper	Name of the author/s	Department School/ Division/ Centre/ Unit/ Cell of the teacher/ and other academic	Name of journal	Year of publication	ISSN number	Link of the publication (if any)
1	Design, development and fabrication of deformable mirror	S. Shinde, Shubha Gokhale and S. Phadke	Discipline of Physics, School of Sciences	Journal of Instrumentation Society of India 32 (2002) 213	2002	0970-9983	
2	Nanostructures bring quantum mechanics in reality	Shubha Gokhale	Discipline of Physics, School of Sciences	Physics Education 14 (1998) 389	1998	0970-5953	

APPENDIX-3: LIST OF PRESENTATIONS IN CONFERENCES/WORKSHOPS

1. XPS and XRD investigations of some Rare Earth Metal/ silicon interfaces
Shubha Gokhale, A.S.Nigavekar and S.K.Kulkarni
Third National seminar on X-ray Spectroscopy and Allied Areas,
REC, Srinagar (8-12 October 1989)
2. GaAs/Dy interface investigations using HREELS and XPS
Shubha Gokhale, A.S.Nigavekar and S.K.Kulkarni
Materials Research Society **EA-21** (1990) 99.
3. One dimensional band structures - rare gases on Pt(111)-(1X2)
M.Weinelt, P.Trischberger, W.Widdra, K.Eberle, P.Zebisch, **Shubha Gokhale**,
D. Menzel, J.Henk, R.Feder, H.Dröge and H.-P. Steinrück
Röntgen Centennial Conference, Würzburg, Germany (23-27 October 1995)
4. Study of Benzene on Si(100)-(2X1)
Shubha Gokhale, W.Widdra, P.Trischberger, D.Menzel, H.Dröge, H. Koschel
and H.-P. Steinrück
German Physical Society Spring Meeting, Regensburg, Germany
(25-29 March 1996)
5. One dimensional band structure of Xe on H modified Pt(110)-(1X2)
P.Trischberger, **Shubha Gokhale**, W.Widdra, D.Menzel, H.Dröge and
H.-P.Steinrück
German Physical Society Spring Meeting, Regensburg, Germany
(25-29 March 1996)
6. Angle Resolved Photoemission Spectroscopy of Benzene/ Si(100)-(2X1)
interface.
Shubha Gokhale, W.Widdra, P.Trischberger, D.Menzel, H.Dröge, H. Koschel
and H.-P. Steinrück
Conference on Frontiers in Materials Modelling and Design (FMMD),
Indian Institute of Metals, IGCAR, Kalpakkam (20-23 August 1996)
7. Investigations of Ge/Si interface using X-ray photoelectron spectroscopy and
atomic force microscopy.
A.Lobo, **Shubha Gokhale** and S.K.Kulkarni
Sixth National seminar on X-ray Spectroscopy and Allied Areas,
Govt. Post Graduate Arts and Science College, Ratlam (17-19 November 1997)
8. Indigeneous development of Shack-Hartmann type wavefront sensor
Shubha Gokhale, S.Shinde, A.Kalkarni and S.Phadke
National Symposium on Instrumentation (NSI-25) Bangalore (8-12 Nov. 2000)
9. Resource person on "Robotics" in the Refresher Course in Instrumentation organized by
University of Pune (December 2000)
10. Panellist in the National Symposium on IP education, training and research Organized by
WIPO-MHRD-IIT, Delhi, New Delhi (17-18 May 2005)

11. Resource person at Curriculum Development Workshop on “Teaching of Intellectual Property Rights” at Department of Management Studies, IIT, Delhi, (25-26 March 2006)
12. Lecture on “Nanocoatings” at Short term Training Programme on Recent Developments in Nano & Micro Manufacturing organized by SOET, IGNOU (15-19 April 2013)

**APPENDIX-D: DETAILS OF PROGRAMMES/ COURSES COORDINATED/ WRITTEN/
 EDITED/ TRANSLATED**

S No	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
1.	B.Sc.	Physics Laboratory-I (PHE-03/BPHL-103)	Print	Coordination, Content and Format editing of revised version	Aug 2002 - till date
2.	B.Sc.	Thermodynamics and Statistical Mechanics (PHE-06/BPHE-106)	Print	Course team member, Written (partial), Content and Format editing of revised version	Sept 2000 - till date
3.	B.Sc.	Electrical Circuits and Electronics (PHE-10)	Print	Coordination and Maintenance	Aug 2002- till date
4.	B.Sc.	Physics of Solids (PHE-13)	Print	Course team member, Content and Format editing	Sept 2000 – till date
5.	B.Sc.	Communication Physics (PHE-16)	Print	Coordination, Written (partial), Content, format Editing and Maintenance	Jan 2002- till date
6.	BSCG	Mechanics: Laboratory (BPHCL-132)	Print	Co-coordination, Written (partial), Content, format Editing	July 2019-till date
7.	BSCG	Electricity and Magnetism: Laboratory (BPHCL-134)	Print	Co-coordination Written (partial),, Content, format Editing	July 2019-till date
8.	BSCG	Thermal Physics and Statistical Mechanics (BPHCT-135)	Print	Course team member, Written (partial),, Content, format Editing and Maintenance	Jan 2020-till date
9.	BSCG	Thermal Physics and Statistical Mechanics: Laboratory (BPHCL-136)	Print	Co-coordination, Written (partial), Content, format Editing	Jan 2020-till date
10.	BSCG	Optics (BPHCL-137)	Print	Course team member, Written (partial), Content, format Editing	July 2020-till date
11.	MSCPH	Electronics (MPH-005)	OER adaption	Co-ordination, OER content curatiion	July 2023-till date
12.	MSCPH	Electronics Laboratory (MPHL-010)	Print	Co-ordination, Content, format editing	July 2023-till date
13.	MSCPH	Materials Science (MPHE-024)	OER adaption	Co-ordination, OER content curatiion	July 2024-till date
14.	MSCPH	Nanoscience (MPHE-027)	Print	Co-ordination, Content, format editing	July 2024-till date
15.	PHDPH	Nanotechnology (RPHE-005)	Face-to-face delivery	Co-ordinator, Lecture Delivery (Partial)	July 2019- till date
16.	PHDPH	Research Methodology (RPH-001)	Face-to-face delivery	Lecture Delivery (Partial)	July 2019- till date
17.	PHDPH	Materials Science (RPHE-004)	Face-to-face delivery	Co-ordinator, Lecture Delivery	Jly 2025- till date
18.	CPLT	Laboratory Techniques in Physics (CLT-104)	Print	Written (partial), Content and Format	Jan 2013- till date

				editing of revised version	
19.	CPLT	Basic Experiments in Physics (CLTL-104)	Print	Coordination, Written (partial), Content and Format editing	Jan 2013-till date
20.	PGDIPR	General Overview of Intellectual Property (MIP-001)	Print	Coordination, Content and Format editing	Feb 2004 – Jan 2008
21.	PGDIPR	Industrial Property: Patents, Designs, Plant Varieties (MIP-002)	Print	Coordination, Content and Format editing	Feb 2004 – Jan 2008
22.	PGDIPR	Industrial Property : Trademarks, Geographical Indications, Trade Secrets and Unfair Competition (MIP-003)	Print	Co-coordination, Content and Format editing	Feb 2004 – Jan 2008
23.	PGDIPR	Protection of Industrial Property at National Level (MIP-005)	Print	Coordination, Content and Format editing	Feb 2004 – Jan 2008
24.	PGDIPR	Contemporary Intellectual Property Issues (MIP-008)	Print	Coordination, Written (partial), Content and Format editing	Feb 2004 – Jan 2008