

SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)

UJIRE - 574 240

TEACHER'S WORK DIARY

NAME : RAGHAVENDRA S.

DESIGNATION : Asst. Prof. & Head

DEPARTMENT : PG Physics

ACADEMIC YEAR : 20 2 2 - 20 2 3

PERSONAL PROFILE

NAME	:	RAG	HAVENÌ	DRA S.	
DESIGNATION	:	Assi	stant	Pro-fessor.	§ Head
DEPARTMENT	:	PG	Physic	<i>.s</i>	
RESIDENTIAL ADDRESS	:				
PHONE NUMBER	:	(R)			(O)

CELL NUMBER

:

: raghavendras @ sdmcujire in e-mail ID

COLLEGE MOTTO

सम्यग् दर्शन ज्ञान चारित्राणी

COLLEGE VISION

Empowerment through competency development with ethical foundation.

COLLEGE MISSION

- Providing infrastructural facilities to meet the contemporary needs.
- Inculcating the spirit of Inquiry.
- Adopting learner centered approach.
- Enhancing teaching learning and evaluation through effective ICT use.
- Practicing fair and just methods of assessment and evaluation.
- Enhancing growth opportunities for employability.
- Sustaining transparency in institutional governance.
- Fostering value practices and social responsibility.
- Focusing on continuous improvement through comprehensive feedback.

QUALITY POLICY

- We will practice participatory teaching learning methods for empowering students.
- We will optimally use ICT for better learning experience.
- We will coninuously upgrade our knowledge and skills.
- We will make all efforts to provide a strong value base.

We will firmly believe that national interest is more important than personal accomplishments.

DEPARTMENT VISION:

* Empowering higher education in Physics.

* Iraining quality teachers/researchers. * Proveide a platform for all-round growth

& development of students.

DEPARTMENT MISSION:

* Catering to Master degree - level Physics education in this rural set - up.

* Dereeloping professional physics teachers & researchers.

DETAILS OF 40 HOURS OF WEEKLY WORKLOAD OF THE STAFF

SI.No.	TASKS	WORKLOAD (without Practical)	WORKLOAD (with Practical)
1.	Teaching	16 hrs.	16 hrs.
2.	Practical	-	04 hrs.
3.	Tests / Exams	02 hrs.	02 hrs.
4.	Tutorial Classes	04 hrs.	02 hrs.
5.	Class Preparation / Lab Setting	10 hrs.	10 hrs.
6.	Co-Curricular Activity	04 hrs.	02 hrs.
7.	Administrative Work	04 hrs.	04 hrs.

TERM - I

TEACHING TIME TABLE

SEMES	TER -	I / III	1X
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	PERIODS							
DAY	I 9:15-10:10	II 10:15-11:10	III 11:15-12:10	IV 12:15-1:10	V 1:15-2:05	VI 2:10-3:05	VII 3:10-4:05	VIII 4:10-5:05
MON	I.S.	em Lab			L	EIS	em >	
		PHP 405			V	РНН	401	
TUE			sem >		N C	, 111	cem Lat	
		PHH	502		H	PH	P 508/51	0
WED	I sem PHH403				B		sem Lab	
					R	РНР	508/510	\rightarrow
тни	E.	sem La	+>		E	_ I se	m	
	PH	P 405			A	PHH 4	02	
FRI		XB	~		K			
		PHH s	02					
SAT		_ I A	em >					
		РНН 4	+02					

TOTAL TEACHING WORKLOAD : 23 hrs. per week

PRACTICAL : 12 hrs per week

SI.No.	Class	Subject / Paper	Hours per Week	No. of Students
1.	III sem	PHH 502 - 7D & Statistical [Physics]	04	22
2.	III sem	PFIP 508/510 - CMP Practicals	06	11+11=22
3.	I sem	PHH 401 - Math Methody-I	02	27
4.	[sem	PHH402 - Quantum Mech-I	04	27
5.	I sem	PHH 403 - Classical Mich.	01	27
6.	I sem	PHP 405 - Practicals-I	06	14+13=27

signature of the STAFF

Signature of the H.O.D.

Signature of the DEAN /PRINCIPAL

ASSIGNMENTS FOR THE ACADEMIC YEAR

1. Co-Curricular :

1. Proposed Research / Projects undertaken :

2. Students' Research Projects :

3. Mentorship:

5' Students from I sem MSc & '7' III sem MSc, Physics

2. Extra Curricular :

1. Association Charge :

2. Committee Membership: (i) BOE/BDS in - charge of Dept. (Dept./College Level)

(ii) Library & Learning Resources (iii) Perspective Plan - Research Publication, & Project Proposal committee.

3. Community / Extension Projects :

SEMESTER - I / III / V

LESSON PLAN FOR THE 1st TERM

- 1. Title of the Paper :
- 2. Total No. of Hrs. :

3. Class

PHH 401 Methods of Mathematical Physics 1

:

Unit(s)	Contents	Objectives &	Teaching	Review of	References
		Outcomes	activities	outcomes	
Unit III	Review of	Objectives:	Class	Tests &	1. Arfken &
Partial	differential	1.To acquaint the	discussion	assignments.	Weber, 'Mathematical
differential	equations. First	students with	seminars on	class questions	Methods for Physicists'
equations	order partial	various	related	& discussion	(Academic Press)
	differential	mathematical	topics.		2. Harper C,
	equations for a	techniques used in	review of		'Introduction to
	function of two	Physics	recent		Mathematical Physics'
	variables.	2.To familiarize	advances.		(PHI, 1978)
	Linear second	the notations,	4		3. Harry Lass,
	order partial	symbols &			·Vector and Tensor
	differential	terminologies			Analysis' (McGraw Hill,
	equations.	associated with			1950)
	Classification	(Mathematical)			4. ML Boas,
	into elliptic,	Physics			'Mathematical Methods
	parabolic and	3.To teach the			in the Physical sciences'
	hyperbolic	mathematical			(John Wiley)
	types. Boundary	principles			5. Spiegel M R,
	value problems	involved in			Vector Analysis
-	- solutions by	solving problems			(Schaum series, McGraw
	separation of	A To poplimetize			HIII, 1997)
	variables - 1 2	the various			P K 'Mathematical
	& 3	applications of			Physics' (Wiley Eastern
	dimensional	mathematical			1990)
	wave equation	methods of			7. Avres F.
	and diffusion	Physics			'Differential Equations'
	equation in	Outcomes:			(Schaum series, McGraw
	different	I:Understand that			Hill)
	coordinates.	mathematics can			8. Sneddon I A,
		be used as an			'Elementary Partial
		effective tool in			Differential Equations
		solving physical	•		(McGraw Hill)
		problems.			9. Bose A K and
		2:Appreciate the			Joshi, 'Methods of
		utility and			Mathematical Physics
	· ·	ingenuity of			(McGraw Hill)
		various			10. Kreysig E,
		mathematical			Advanced Engineering
		ineorems when			Mathematics' (Wiley
		appried to			Eastern, 1969)
		principles			TI. Mathews &
		3. Be familiar with			Walker, Mathematical
		the abstraction of			A Doniomin)
		physical concepts			12 Loglakar S
		when codified in			Mathematical Dhysion
		mathematical			Vol 1&2' (Universities
		language.			Press 2005)
		4:Understand and			13. Shankar Roo
		apply			"Partial Differntial
		mathematical			Equations" (PHI Learning
		formulation in			Pvt. Ltd.).
Unit IV	Beta and	various branches	Class	Tests &	1. Arfken &
Special	gamma	of Physics	discussion,	assignments,	Weber, 'Mathematical
Functions	tunctions, their		seminars on	class questions	Methods for Physicists'
	properties and		related	& discussion	(Academic Press)

DAILY RECORD

Date :	17-01- 23	Day: Jue
Hour	Class	Topics covered / Activities Conducted (Online / Offline Classes)
I		
п)	NAAC work - Ppt. & hand-out
III	}	preparation, presentation & finalising. Couldn't enpage PHH 502 class
IV)	(10-12)
v		
VI	2	VG physics pat. & hand-out presenta-
VII	}	- tion attended Couldn't ingage PHP 510 Lab (Attendance
VIII		Students attended lat. given)

Details of beyond class room activities : -----

Signature of the Staff

Signature of the H.O.D.

Day: Wed Date: 18-01-'23 Topics covered / Activities Conducted (Online / Offline Classes) Hour Class PHHHO3 - Properties of Legendre poly., gen. func & orthonormality. I sem Ι Π "Dept. flyer for NAAC, ppt. final III draft. IV PHP 510 - CMP Lab - Practical. Subject quiz for I sem students @ Seminer Hall-1 V VI VII VIII Details of beyond class room activities : Bubject quiz for Isem Signature of the H.O.D. Signature of the Staff

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KOII.N	o. Date	Name of the Student	Details of the Interaction	Nature of Guidance	Sign.of the Student
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		Anacha K.V	Basics, person-	C 3 d 2	,
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		Aswin Babu	confidence &	not not	A
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			10 0 10 1 1	5	
			Placement at	PROS & Cons of	
818	28/02/23	Sareitha A.G.	Azim Premje Reg.	fultere & areer	Scritcher
			Academine &	asperations reg. Nothing specific	•
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802	98/02/23	Adarsha S.P.	General query	ron	4
			Academics, nsep. for subject	Preveious OB,	
815	28/02/23	Sandhya B.S.	& learning seg.	& neork-out	Sandhya B
				activities rg .	
			Academair e	2 * .	
300	1/01/12	Angelia K.V.	General inte -) * * *	On.
002	24/04/3	Anagha K.V.	- haction	t a the	
602		iba.		en den	
202	24/04/23	Anicamina M.A.		dan dan	(Maria
		Aluer D.I.		La contra	Vit
~04	24/04/22	How Baby		the child	AF
	107	N · P		red und	De
805	1.1.	Deepika P.K		\$ 6.3	1.0
0~3	24/04/12			er for	Detrilar
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	•			E. H.	
				J.	

MENTORSHIP INTERACTION DETAILS

10

Monthly Record of Career Advancement Programmes and Student Progression Activities (Give all details)

Month: April 2023

- Seminars / Webinar / Workshops attended: 28/04 Workshop (online) by M/s. Master Soft "Leveraging ICT Jook. 1. (Record all details)
- 2. Titles of Research Papers presented / published / ******** Talks delivered (Record all details) :
- 3. Titles of books read : (Record all details)

* Intro. to QM - exiffithy * QM- Zettili * Relativeity - Krori * Intro. to Grecial Relativity - Resnick * Nuclear physics -SN Ghoshal

- Seminar / Webinar / Workshop / Interaction / 4. *19-04: Lecture/int. by Mr. Varunkumar, ECE Dept, SDMIT (Industry opportunities for Physics students, 7ab & VLSI rg.). Meets conducted : (Record all details)
- 5. E-lectures recorded : (No. & topics)

6. Total No. Remedial classes conducted :

- 7. Total No. Tutorial classes conducted :
- 8. No. of Value Speak :
- 9. No. of current affairs presentations :
- 10. Community oriented activities : (No. & details)
- 11. No. of Career Guidance and

No. of Career Guidance and * On 19/04 - Ms. Varunkumar (SDMJT) Placement Sessions / Training : "Industrial opportunities in VISE",

- 12. Alumni Interactions: 25/04 Mr. Nidheesh V.R. (MAHE, Manipal) (No. & details)

13. Specify other activities and their numbers : * 20/04 - Judge for an event @ UG Physics Dept. * 20/04. gudge for "mad Ad" for PG Stat.

Signature of the STAFF

Signature of the H.O.D.

Signature of the DEAN / PRINCIPAL

CERTIFICATE

(To be entered at the end of Semester)

Certified that

- 1) I have engaged the classes as per the time table for the I / III / V Semester 2022-23
- 2) I have completed all the portions as per the lesson plan during the Semester.
- 3) I have engaged special / tutorial classes during this semester itself to complete the portions which could not be covered due to loss of class hours.
- I have made all the necessary preparations for the classes, assisted in the administration, conducted class tests, conducted tutorial classes and co-curricular activities as per the schedule.

ature of the STAFF

Signature of the H.O.D.

Signature of the DEAN / PRINCIPAL

CERTIFICATE

(To be entered at the end of Semester)

Certified that

- 1) I have engaged the classes as per the time table for the II / IV/NI Semester 20.82-2.3
- 2) I have completed all the portions as per the lesson plan during the Semester.
- 3) I have engaged special / tutorial classes during this semester itself to complete the portions which could not be covered due to loss of class hours.
- (1) I have made all the necessary preparations for the classes, assisted in the administration, conducted class tests, conducted tutorial classes and co-curricular activities as per the schedule.

Signatu

Signature of H.O.D

Signature of **DEAN / PRINCIPAL**