

**"Dissemination of Education for Knowledge, Science and Culture"**  
--- *Shikshanmaharshi Dr. Bapuji Salunkhe*

**Shri Swami Vivekanand Shikshan Sanstha Kolhapur's**  
(Affiliated to Shivaji University, Kolhapur)

**Padmabhushan Dr. Vasanttraodada Patil Mahavidyalaya, Tasgaon**

**Department of Physics**

**Certificate Course in**

**Electrical Maintenance and Safety Awareness**

**2017-2018**

"Dissemination of Education for Knowledge, Science and Culture"  
-Shikshanmaharshi Dr. Bapuji Salunkhe  
Shri Swami Vivekanand Shikshan Sanstha Kolhapur's  
Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon  
Department of Physics

**BOARD OF STUDY**

**2017-2018**

Board of studies member in Certificate course in Electrical Maintenance and Safety Awareness are

1)	Mr. B.S. Harale	PDVP College, Tasgaon
2)	Dr. J. S. Ghodake	PDVP College, Tasgaon
3)	Mr. S. S. Shinde	PDVP College, Tasgaon
4)	Miss P. S. Yadhav	PDVP College, Tasgaon

*Dr. S. S. Shinde*  
Head,  
Department of Physics,  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon. (Dist. Sangli)



"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"  
-श्रीमद्गुरुजी डॉ. बापूजी साहूजी

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchhit.

**PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA**

**TASGAON**, Dist. Sangli, Pin 416 312 ☎: STD : 02346-250 665, 250575 FAX : 02346-250575

**(AFFILIATED TO SHIVAJI UNIVERSITY)**

E-mail : san.pdvpm.tas@gmail.com Website : pdvpcollege.tasgaon.com

Established Year - June 1962 || P.B. No. 14 || Jr.College No. J22-10-001 || Sr. College Code No. SUAC/4 Jr.-C-8 X

NAAC Reaccredited "B" Grade (2.76)

**Dr. Bapuji Salunkhe**  
J.A.B.T.  
Founder

**Hon. Chandrakant (Dada) Patil**  
President  
Member, Technical Education, Maharashtra Govt.

**Prin. Abhaykumar Salunkhe**  
M.A.  
Chairman

**Prin. Mrs. Shubhangi M. Gawade**  
M.Sc., B.Ed.  
Secretary

**Dr. R. R. Kumbhar**  
M.Sc., M.Phil., Ph.D.  
Principal

Ref. No.: PDVPMT/ By hand

Date: 19/07/2017


To,  
Dr. J. S. Ghodake  
Department of Physics  
P. D. V. P. College,  
Tasgaon

Subject: BOS/Syllabus committee Meeting.

Sir

You are appointed as Member of Board of Studies (BOS) in Certificate course in Electrical Maintenance and Safety Awareness in our college during academic year 2017-2018.

The meeting of BOS is conveyed on 22/07/2017 for the preparation of syllabus of Certificate course in Electrical Maintenance and Safety Awareness. You are kindly requested to attend the meeting at 2.30 pm in Physics department.

  
Dr. R. R. Kumbhar  
Principal

Padmabhushan Dr. Vasanttraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)



"ज्ञान, विज्ञान आणि सुलंकार यासाठी शिक्षण प्रसार"  
-विद्यमानहरी जे. बापूजी सावुंबे

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X

NAAC Reaccredited "B" Grade (2.78)

**Dr. Bapuji Salunkhe**  
F.A., B.T.  
Founder

**Hon. Chandrakant (Dada) Patil**  
President  
B.Com.

**Prin. Abhaykumar Salunkhe**  
M.A.  
Chairman

**Prin. Mrs. Shubhangi M. Gowade**  
M.Sc., B.Ed.  
Secretary

**Dr. R. R. Kumbhar**  
M.Sc., M.Phil., Ph.D.  
Principal

Ref. No.: PDVPMT/ *By hand*

Date: *13/07/2017*

To,  
Miss B. S. Harale  
Department of Physics  
P. D. V. P. College,  
Tasgaon

Subject: BOS/Syllabus committee Meeting

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**Dr. Kumbhar R.R.**

**Principal**

Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)





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- विद्यामहर्षी डॉ. बापूजी सावुर्वे

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<p><b>Dr. Bapuji Salunkhe</b> F.A., B.T. Founder</p>	<p><b>Hon. Chandrakant (Dada) Patil</b> President B.Com.</p>	<p><b>Prin. Abhaykumar Salunkhe</b> M.A. Chairman</p>	<p><b>Prin. Mrs. Shabhangi M. Gawade</b> M.Sc., B.Ed. Secretary</p>	<p><b>Dr. R. R. Kumbhar</b> M.A., M.Phil., Ph.D. Principal</p>
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Ref. No.: PDVPMT/ By hand

Date: 19/07/2017


To,  
Mr. S. S. Shinde  
Department of Physics  
P. D. V. P. College,  
Tasgaon

Subject: BOS/Syllabus committee Meeting

Sir

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Dr. R. R. Kumbhar  
Principal

Padmabhushan Dr. Vasantraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)



“ज्ञान, विज्ञान आणि सुसंस्कार वांछनी शिक्षण प्रसार”  
-श्री स्वामी जी साहू

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Sanchalit,

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S.A. B.T.  
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Secretary

Dr. R. R. Kumbhar  
M.Sc. M.Phil. Ph.D.  
Principal

Ref. No.: PDVPMT/B7 hand

Date: 13/07/2017


To,  
Miss P. S. Yadav  
Department of Physics  
P. D. V. P. College,  
Tasgaon

Subject: BOS/Syllabus committee Meeting

Sir

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Dr. R. R. Kumbhar  
Principal  
Padmabhushan Dr. Vasantodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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Shri Swami Vivekanand Shikshan Sanstha Kolhapur's

Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon

Department of Physics

Date-17/07/2017

MEETING NOTICE


All members of the BOS of Certificate course in Electrical Maintenance and Safety Awareness are hereby informed that a meeting is convened on 22/07/2017 at 2.30 p. m. in the departmental cabin. All the respected members are requested to attend the meeting to discuss the following agenda.

Agenda:

1. Preparation of syllabus of certificate course
2. Discussion on Workload and Time table
3. Distribution of the Syllabus
4. Any other issue raised with prior permission of Chairperson.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Mr. B.S. Harale	
2)	Dr. J. S. Ghodake	
3)	Mr. S. S. Shinde	
4)	Miss P. S. Yadhav	

Dr.   
Head,  
Department of Physics,  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)




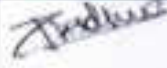



### Minutes of Meeting

The minutes of the meeting are given below

1. During the meeting syllabus of certificate course in Electrical Maintenance and Safety Awareness Appliances are prepared. It contains two papers in which first theory and second practicals are discussed. The responsibility of preparation of syllabus was given to Mr. S. S. Shinde
2. The issue regarding time table and workload distribution discussed. It has been decided to start course from August 2016. The faculty member is appointed for teaching the syllabus and practicals.
3. The responsibility of completion of syllabus is given to teacher Dr. J. S. Ghodake

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1)	Mr. B.S. Harale	
2)	Dr. J. S. Ghodake	
3)	Mr. S. S. Shinde	
4)	Miss P. S. Yadhav	

  
Dr. S. S. Yadhav  
Head,  
Department of Physics,  
Padmabhushan Dr. Vasantaoada Patil  
Mahavidyalaya, Tesgaon, (Dist. Sangli)



## **Aims and Objectives**

The aim of this certificate course is to demonstrate the potential problems that can arise due to poor wiring, grounding or shielding. From this course students acquire knowledge about different types of electrical wires (gauges) and accessories as well as earthing or grounding.

Also create awareness about electrical earthing. The students who completed this course are competent in electrical work and get job opportunities in a commercial electrical manufacturing work or maintainer.

1. Testing of electrical parameters, cables and measurements.
2. Select the proper instrument for suitable measurement.
3. Practice soldering and de-soldering of various types of electrical wires.
4. Trouble shoot the faults in the given power supply circuits.
5. Testing of various mechanical and electrical modules of the given appliances.
6. Testing of electrical parts/wires /boards.
7. Aware of earthing of different appliances.
8. To study the various types of earthing for electrical system.
9. Testing and identification of faulty wires, electrical boards

### **Undergraduate students upon graduation with a bachelor degree in sciences:**

learning outcomes (knowledge, skills and competence):

1. Students acquire knowledge about function and use of electrical boards, accessories. Also create awareness about electrical earthing. The students who completed this course are competent in electrical work as well as electrical manufacturing work or maintainer.
2. Maintain the voltage as well as current at any part of an electrical equipment or system at a known value.
3. Home appliances or equipments prevented from over current or excessive voltage
4. Duration of course: One month.
5. Eligibility to course: B.Sc.III
6. Admission: Entire B.Sc. III Physics Students.

**Evaluation System:**

All the students will be continuously evaluated by,

**Theory paper**

Final examination 50 M

Nature of Theory question paper

Q-1 Attempt any two 30M  
(i to iii)

Q-2 Attempt any four 20M  
(i to v)

**Practical Course**

Nature of Practical question paper 50 M

- a. Diagram 15 M
- b. Instrumentation 10 M
- c. Testing 15 M
- d. Oral 10 M

Certification: A certificate will be issued on successful completion of the course.

## Syllabus

### Theory Paper I

[Total periods: 15]

#### **Unit I**

Electrical Testing and Maintenance Poor wiring and defective electric wires, Extension cords, Covered electrical cords and wires, House wiring and their types, Electrical boards, Light bulbs, Tubes.

#### **Unit II**

Earthing System, Earthing Theory, Basics of earthing system or grounding system, System or Neutral earthing, Equipment earthing.

#### **Unit III**

Types of earthing system or grounding system- TT earthing system, IT earthing system, TN-S earthing system, Different methods for earthing - Plate earthing, Pipe earthing, Strip or wire earthing, Advantages of earthing.

### Practical Paper II

[Total periods: 15]

1. Test electrical boards and house wiring
2. Study the various types of earthing for electrical systems

#### **Reference book**

1. Basic Electricity- Prof O. B. Chaudhari, Nirali publication
2. Electrical Machines-Prof O. B. Chaudhari, Nirali publication
3. Electricity and Basic electronics- Dr. P. K. Patil, Phadake publication
4. Electricity and Magnetism-Dr. P. K. Patil, Phadake publication



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### Department of Physics

Certificate Course in

"ELECTRICAL MAINTENANCE AND SAFETY AWARENESS"

2017-2018

### Enrolled List of Students

Sr. No.	Roll No.	Name of the student	Class	Signature
1	4324	Bhagat Ravina Mahadev	B. Sc. III	BMR
2	4325	Honmane Shobha Machhindra	B. Sc. III	shobha
3	4326	Jamdade Dhanashri Vijay	B. Sc. III	JDV
4	4327	Lugade Adhik Anandrao	B. Sc. III	DA
5	4328	Mulla Roman Mahamadaraphik	B. Sc. III	mulla
6	4329	Mulla Souphiya Dilawar	B. Sc. III	Smulla
7	4330	Patil Amol Krushnat	B. Sc. III	ATI?
8	4331	Patil Aniket Jagannath	B. Sc. III	Aniket
9	4332	Patil Arati Bhagwat	B. Sc. III	ARB
10	4333	Patil Ashwini Ashok	B. Sc. III	AAP
11	4334	Patil Sayali Madhukar	B. Sc. III	SMP
12	4335	Pawar Pooja Chandrakant	B. Sc. III	Pooja
13	4336	Shendage Sayali Sanjay	B. Sc. III	SSS
14	4337	Shinde Anil Shivaji	B. Sc. III	ASJ
15	4338	Shinde Harshavardhan Bhairu	B. Sc. III	HRS
16	4339	Suryawanshi Amruta Anil	B. Sc. III	AAS
17	4340	Zambare Suraj Sudhakar	B. Sc. III	SSZ
18	4363	Mulla Heena Shabbir	B. Sc. III	Heena
19	4001	Bangar Shweta Suresh	B. Sc. II	swetaB



20	4002	Bhasme Aditya Sunil	B. Sc. II	ASB
21	4003	Dagade Adarsh Sanjay	B. Sc. II	Dagade
22	4004	Dhok Akash Sanjay	B. Sc. II	ASD
23	4005	Jadhav Rutuja Uttam	B. Sc. II	RUJadhav
24	4006	Koli Pragati Shrimant	B. Sc. II	PSK
25	4007	Koli Sachin Subhash	B. Sc. II	sachink
26	4008	Koli Sourabh Rajendra	B. Sc. II	Kolis
27	4009	Kumbhar Abhishek Sanjay	B. Sc. II	ASK
28	4010	Mane Rohit Jagannath	B. Sc. II	ManeR
29	4011	More Ujwala Vidyadhar	B. Sc. II	moreU
30	4012	Mulani Sumaiyya Shahabuddin	B. Sc. II	MulaniS
31	4013	Patil Akshata Vijay	B. Sc. II	APatil
32	4014	Patil Milind Madhukar	B. Sc. II	MIMP
33	4015	Patil Omkar Bhupal	B. Sc. II	PatilO
34	4016	Patil Pravin Prakash	B. Sc. II	PPP
35	4017	Patil Reshma Ashok	B. Sc. II	RAP
36	4018	Patil Sagar Sanjay	B. Sc. II	SSP
37	4019	Patil Vikram Bajirao	B. Sc. II	VBP
38	4020	Pawar Ashwini Arvind	B. Sc. II	AAP
39	4021	Sawant Mahesh Mohan	B. Sc. II	SawantM
40	4022	Zambre Harshavardhan Pandirtao	B. Sc. II	ZambreH
41	4023	Aldar Rutuja Dagdu	B. Sc. II	RDA
42	4024	Bakare Krishna Anil	B. Sc. II	KAB
43	4025	Chavan Ashitosh Ramesh	B. Sc. II	CAR
44	4026	Chavan Sayali Suresh	B. Sc. II	sayali
45	4027	Gaikwad Snehal Nagesh	B. Sc. II	Gaikwad

46	4028	Kalabage Suraj Jayawant	B. Sc. II	SSR
47	4029	Kharmate Komal Ramesh	B. Sc. II	KKR
48	4030	Mali Prajakta Ramchandra	B. Sc. II	PRM
49	4031	Mane Aishwarya Hanmant	B. Sc. II	Aishwa
50	4032	Mane Monika Popat	B. Sc. II	mmp
51	4033	More Shital Sunil	B. Sc. II	SSM
52	4034	Nalawade Shubham Shashikant	B. Sc. II	SSN
53	4035	Nimbalkar Snehal Sambhaji	B. Sc. II	SSM
54	4036	Patil Anagha Ajit	B. Sc. II	AAP
55	4037	Patil Gayatri Ankush	B. Sc. II	Gayatri
56	4038	Patil Jayashree Shankar	B. Sc. II	JSP
57	4039	Patil Pooja Pandurang	B. Sc. II	PDP
58	4040	Patil Poonam Pandurang	B. Sc. II	PatilP
59	4041	Patil Rutuja Tanaji	B. Sc. II	PRT
60	4042	Pawar Anuradha Anil	B. Sc. II	AAP
61	4043	Sasane Suraj Ashok	B. Sc. II	Sasane
62	4044	Shah Bhakti Sandesh	B. Sc. II	ShahB
63	4045	Shendage Mayuri Ravindrath	B. Sc. II	SMR
64	4046	Shendage Shubhangi Maruti	B. Sc. II	SSM
65	4047	Shinde Nilam Gajanan	B. Sc. II	SNL
66	4048	Shinde Poonam Gunwant	B. Sc. II	SPG
67	4049	Shinde Rhunal Dhanaji	B. Sc. II	RDS
68	4050	Suryawanshi Dhanashri Baburao	B. Sc. II	SRB
69	4187	Babar Rushikesh Dilip	B. Sc. II	RDB
70	4188	Bansode Pradnya Arun	B. Sc. II	BansodeP
71	4189	Bhosale Monali Popat	B. Sc. II	MonaliB



72	4190	Bhosale Sahebrao Dagdu	B. Sc. II	SDR
73	4191	Bodake Minol Shankar	B. Sc. II	M. Bodake
74	4192	Chavan Omkar Sunil	B. Sc. II	OSL
75	4193	Chavan Yogesh Balasaheb	B. Sc. II	YBC
76	4194	Damate Pranali Shailendra	B. Sc. II	PIDam
77	4195	Dubole Pradip Ashok	B. Sc. II	PAD
78	4196	Ghadage Arati Rajendra	B. Sc. II	ARG
79	4197	Ghaodake Amar Vijaykumar	B. Sc. II	ARG
80	4198	Gorad Yogeshwari Prakash	B. Sc. II	Gorady
81	4199	Hankare Nilesh Dilipkumar	B. Sc. II	Hankare
82	4200	Hatitkar Komal Jagannath	B. Sc. II	Komal
83	3661	Mali Pranali Mahadev	B. Sc. I	P. Mali
84	3662	Mali Rohan Gajanan	B. Sc. I	R. Mali
85	3663	Mane Aniket Ravsaheb	B. Sc. I	ARM
86	3664	Mane Avinash Dipak	B. Sc. I	A. D. Mane
87	3665	Mane Chandrakant Bhagwan	B. Sc. I	C. B. M
88	3666	Mane Kishor Sanjay	B. Sc. I	M. K. S
89	3667	Mane Mahesh Mohan	B. Sc. I	M. M. M
90	3668	Mane Shubham Vishvanath	B. Sc. I	S. V. M
91	3669	Mane Sujit Suryakant	B. Sc. I	S. S. M
92	3670	Mane-Patil Rushikesh Prakash	B. Sc. I	R. P. P
93	3671	Mohite Abhijit Rajaram	B. Sc. I	M. A. R
94	3672	Mohite Sanket Suhas	B. Sc. I	Mohite S. S.
95	3673	Mohite Sukanya Vitthal	B. Sc. I	Mohite S.
96	3674	More Akshay Jaywant	B. Sc. I	A. J. M
97	3675	Nadaf Kausar Shamshuddin	B. Sc. I	N. K. S

98	3676	Nalawade Akash Ananda	B. Sc. I	AAN
99	3677	Nalawade Rutuja Ravsao	B. Sc. I	Rutuja
100	3678	Nalawade Vishvesh Sudam	B. Sc. I	Nalawade
101	3679	Nimbalkar Suraj Popat	B. Sc. I	NSP
102	3680	Patankar Rupali Namdev	B. Sc. I	RNP
103	3681	Patil Abhijit Tukaram	B. Sc. I	ATP
104	3682	Patil Abhishek Ravindra	B. Sc. I	APR
105	3683	Patil Aditi Sunil	B. Sc. I	AP
106	3684	Patil Ajay Ashok	B. Sc. I	Ajay
107	3685	Patil Akshay Arun	B. Sc. I	PAA
108	3686	Patil Anuja Arun	B. Sc. I	AAP
109	3687	Patil Ashish Balasaheb	B. Sc. I	ASP
110	3688	Patil Dhairyasheel Avdhut	B. Sc. I	Mpatil
111	3689	Patil Kiran Kundlik	B. Sc. I	KKP
112	3690	Patil Komal Krushnat	B. Sc. I	KKahl
113	3691	Patil Kunal Kumar	B. Sc. I	KKP
114	3692	Patil Madhura Dattatray	B. Sc. I	MDP
115	3693	Patil Mayur Arvind	B. Sc. I	mayur
116	3694	Patil Megha Rajaram	B. Sc. I	megha
117	3695	Patil Minal Popat	B. Sc. I	minal
118	3696	Patil Monika Ganesh	B. Sc. I	mpatil
119	3697	Patil Monika Ghansham	B. Sc. I	patilM
120	3698	Patil Nilesh Tanaji	B. Sc. I	Npatil
121	3699	Patil Niranjana Ramesh	B. Sc. I	NRP
122	3700	Patil Nivas Shivaji	B. Sc. I	Nivas
123	3701	Patil Omkar Ashok	B. Sc. I	omkar



124	3702	Patil Omkar Suresh	B. Sc. I	Patil OS
125	3703	Patil Onkar Vijay	B. Sc. I	onkar
126	3704	Patil Pallavi Chandrakant	B. Sc. I	Ppatil
127	3705	Patil Prasad Pandurang	B. Sc. I	PPPatil
128	3706	Patil Prashant Pandurang	B. Sc. I	PPP
129	3707	Patil Prashant Vasant	B. Sc. I	PVP
130	3708	Patil Rahul Kakaso	B. Sc. I	RKpatil
131	3709	Patil Rushikesh Anandrao	B. Sc. I	RPatil
132	3710	Patil Rushikesh Mahadev	B. Sc. I	RMP
133	3711	Patil Rushikesh Shankarrao	B. Sc. I	RPatil
134	3712	Patil Raturaj Rajgonda	B. Sc. I	RRP
135	3713	Patil Sarita Sanjay	B. Sc. I	SSP
136	3714	Patil Saurabh Surykant	B. Sc. I	SSP
137	3715	Patil Shivani Suresh	B. Sc. I	Shivani
138	3716	Patil Shubham Bhagvan	B. Sc. I	SBP
139	3717	Patil Snehal Ramchandra	B. Sc. I	snel
140	3718	Patil Sourabh Vilas	B. Sc. I	SVP
141	3719	Patil Suraj Adhikrao	B. Sc. I	SApatil
142	3720	Patil Suyash Vikas	B. Sc. I	SVP

"Dissemination of Education for Knowledge, Science and Culture"

--- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

Padmabhushan Dr. Vasantaoada Patil Mahavidyalaya Tasgaon Dist-Sangli

Department of Physics  
Certificate Course in

"ELECTRICAL MAINTENANCE AND SAFETY AWARENESS"

2017-2018

Work Load

Theory	Practical	Total
15	15	30

Distribution of Work Load

Theory Paper I

Sr.No	Name of the teacher	Work Load in hours
1	Mr. B.S. Harale	05
2	Dr. J. S. Ghodake	05
3	Mr. S. S. Shinde	05

Practical Paper II

Sr.No	Name of the teacher	Work Load in hours
1	Mr. B.S. Harale	05
2	Dr. J. S. Ghodake	05
3	Mr. S. S. Shinde	05

Dr. S. S. Shinde  
Head

Department of Physics,  
Padmabhushan Dr. Vasantaoada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

"Dissemination of Education for Knowledge, Science and Culture"

— *Shikshanmaharshi Dr. Bapuji Salunkhe*

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli

**Department of Physics**


Certificate Course in

**ELECTRICAL MAINTENANCE AND SAFETY AWARENESS**

**Time Table**

2017-2018

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00am-11.00am					Theory/ Practical	
10.00am-11.00am			Theory	Theory		

Dr.   
Head,

**Department of Physics,**  
Padmabhushan Dr. Vasantraodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)























































"Dissemination of Education for Knowledge, Science and Culture"-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya Tasgaon Dist-Sangli

### Department of Physics

Certificate Course in

"ELECTRICAL MAINTENANCE AND SAFETY AWARENESS"

2017-2018

### Attendance of Examination

Sr. No.	Roll No.	Name of the student	Class	Signature
1	4324	Bhagat Ravina Mahadev	B. Sc. III	BMP
2	4325	Honmane Shobha Machhindra	B. Sc. III	shobha
3	4326	Jamdade Dhanashri Vijay	B. Sc. III	JDV
4	4327	Lugade Adhik Anandrao	B. Sc. III	DA
5	4328	Mulla Roman Mahamadaraphik	B. Sc. III	mulla
6	4329	Mulla Souphiya Dilawar	B. Sc. III	smulla
7	4330	Patil Amol Krushnat	B. Sc. III	AJD
8	4331	Patil Aniket Jagannath	B. Sc. III	aniket
9	4332	Patil Arati Bhagwat	B. Sc. III	ABP
10	4333	Patil Ashwini Ashok	B. Sc. III	AAP
11	4334	Patil Sayali Madhukar	B. Sc. III	SMP
12	4335	Pawar Pooja Chandrakant	B. Sc. III	poorja
13	4336	Shendage Sayali Sanjay	B. Sc. III	SSS
14	4337	Shinde Anil Shivaji	B. Sc. III	ASS
15	4338	Shinde Harshavardhan Bhairu	B. Sc. III	HRJ
16	4339	Suryawanshi Amruta Anil	B. Sc. III	AAS
17	4340	Zambare Suraj Sudhakar	B. Sc. III	SSZ
18	4363	Mulla Heena Shabbir	B. Sc. III	Heena
19	4001	Bangar Shweta Suresh	B. Sc. II	sweta B

20	4002	Bhasme Aditya Sunil	B. Sc. II	ASB
21	4003	Dagade Adarsh Sanjay	B. Sc. II	Dagade
22	4004	Dhok Akash Sanjay	B. Sc. II	ASD
23	4005	Jadhav Rutuja Uttam	B. Sc. II	Rutuja
24	4006	Koli Pragati Shrimant	B. Sc. II	PSK
25	4007	Koli Sachin Subhash	B. Sc. II	Sachinle
26	4008	Koli Sourabh Rajendra	B. Sc. II	Kolis
27	4009	Kumbhar Abhishek Sanjay	B. Sc. II	ASK
28	4010	Mane Rohit Jagannath	B. Sc. II	Mane
29	4011	More Ujwala Vidyadhar	B. Sc. II	More
30	4012	Mulani Sumaiyya Shahabuddin	B. Sc. II	Mulanis
31	4013	Patil Akshata Vijay	B. Sc. II	APatil
32	4014	Patil Milind Madhukar	B. Sc. II	MMP
33	4015	Patil Omkar Bhupal	B. Sc. II	Patil O
34	4016	Patil Pravin Prakash	B. Sc. II	PPP
35	4017	Patil Reshma Ashok	B. Sc. II	RAP
36	4018	Patil Sagar Sanjay	B. Sc. II	SSP
37	4019	Patil Vikram Bajirao	B. Sc. II	VBP
38	4020	Pawar Ashwini Arvind	B. Sc. II	AAP
39	4021	Sawant Mahesh Mohan	B. Sc. II	Sawant A
40	4022	Zambre Harshavardhan Pandirtao	B. Sc. II	Zambre H
41	4023	Aldar Rutuja Dagdu	B. Sc. II	RDA
42	4024	Bakare Krishna Anil	B. Sc. II	KAB
43	4025	Chavan Ashitosh Ramesh	B. Sc. II	CAR
44	4026	Chavan Sayali Suresh	B. Sc. II	Sayali
45	4027	Gaikwad Snehal Nagesh	B. Sc. II	Gaikwad



46	4028	Kalabage Suraj Jayawant	B. Sc. II	SJR
47	4029	Kharmate Komal Ramesh	B. Sc. II	KKR
48	4030	Mali Prajakta Ramchandra	B. Sc. II	PRM
49	4031	Mane Aishwarya Hanmant	B. Sc. II	Aishwarya
50	4032	Mane Monika Popat	B. Sc. II	MMP
51	4033	More Shital Sunil	B. Sc. II	SSM
52	4034	Nalawade Shubham Shashikant	B. Sc. II	SSM
53	4035	Nimbalkar Snehal Sambhaji	B. Sc. II	SSM
54	4036	Patil Anagha Ajit	B. Sc. II	AAP
55	4037	Patil Gayatri Ankush	B. Sc. II	GAYATRI
56	4038	Patil Jayashree Shankar	B. Sc. II	JSP
57	4039	Patil Pooja Pandurang	B. Sc. II	PPP
58	4040	Patil Poonam Pandurang	B. Sc. II	PATILP
59	4041	Patil Rutuja Tanaji	B. Sc. II	PRT
60	4042	Pawar Anuradha Anil	B. Sc. II	AAP
61	4043	Sasane Suraj Ashok	B. Sc. II	SASANE
62	4044	Shah Bhakti Sandesh	B. Sc. II	SHAHB
63	4045	Shendage Mayuri Ravindrath	B. Sc. II	SMR
64	4046	Shendage Shubhangi Maruti	B. Sc. II	SSM
65	4047	Shinde Nilam Gajanan	B. Sc. II	SNL
66	4048	Shinde Poonam Gunwant	B. Sc. II	SPG
67	4049	Shinde Rhunal Dhanaji	B. Sc. II	RDS
68	4050	Suryawanshi Dhanashri Baburao	B. Sc. II	SVB
69	4187	Babar Rushikesh Dilip	B. Sc. II	RBB
70	4188	Bansode Pradnya Arun	B. Sc. II	BANSODEP
71	4189	Bhosale Monali Popat	B. Sc. II	MONALI B



72	4190	Bhosale Sahebrao Dagdu	B. Sc. II	SDB
73	4191	Bodake Minol Shankar	B. Sc. II	MBodake
74	4192	Chavan Omkar Sunil	B. Sc. II	OCC
75	4193	Chavan Yogesh Balasaheb	B. Sc. II	YBC
76	4194	Damate Pranali Shailendra	B. Sc. II	PSDam
77	4195	Dubole Pradip Ashok	B. Sc. II	PAD
78	4196	Ghadage Arati Rajendra	B. Sc. II	ARG
79	4197	Ghaodake Amar Vijaykumar	B. Sc. II	AVG
80	4198	Gorad Yogeshwari Prakash	B. Sc. II	Gorad p
81	4199	Hankare Nilesh Dilipkumar	B. Sc. II	Hankare
82	4200	Hatitkar Komal Jagannath	B. Sc. II	Komal
83	3661	Mali Pranali Mahadev	B. Sc. I	PMali
84	3662	Mali Rohan Gajanan	B. Sc. I	Rmali
85	3663	Mane Aniket Ravsaheb	B. Sc. I	ARM
86	3664	Mane Avinash Dipak	B. Sc. I	ADMane
87	3665	Mane Chandrakant Bhagwan	B. Sc. I	CRM
88	3666	Mane Kishor Sanjay	B. Sc. I	MKS
89	3667	Mane Mahesh Mohan	B. Sc. I	MMM
90	3668	Mane Shubham Vishvanath	B. Sc. I	SVM
91	3669	Mane Sujit Suryakant	B. Sc. I	SSM
92	3670	Mane-Patil Rushikesh Prakash	B. Sc. I	RPP
93	3671	Mohite Abhijit Rajaram	B. Sc. I	MAR
94	3672	Mohite Sanket Suhas	B. Sc. I	Mohites
95	3673	Mohite Sukanya Vitthal	B. Sc. I	Mohites
96	3674	More Akshay Jaywant	B. Sc. I	AJM
97	3675	Nadaf Kausar Shamshuddin	B. Sc. I	NKS

98	3676	Nalawade Akash Ananda	B. Sc. I	AAN
99	3677	Nalawade Rutuja Ravsao	B. Sc. I	Rutuja
100	3678	Nalawade Vishvesh Sudam	B. Sc. I	Nalawade
101	3679	Nimbalkar Suraj Popat	B. Sc. I	NIP
102	3680	Patankar Rupali Namdev	B. Sc. I	RMP
103	3681	Patil Abhijit Tukaram	B. Sc. I	ATP
104	3682	Patil Abhishek Ravindra	B. Sc. I	APR
105	3683	Patil Aditi Sunil	B. Sc. I	AP
106	3684	Patil Ajay Ashok	B. Sc. I	Ajay
107	3685	Patil Akshay Arun	B. Sc. I	AAA
108	3686	Patil Anuja Arun	B. Sc. I	AAP
109	3687	Patil Ashish Balasaheb	B. Sc. I	ASP
110	3688	Patil Dhairyasheel Avdhut	B. Sc. I	MPatil
111	3689	Patil Kiran Kundlik	B. Sc. I	KKP
112	3690	Patil Komal Krushnat	B. Sc. I	KKhl
113	3691	Patil Kunal Kumar	B. Sc. I	KKP
114	3692	Patil Madhura Dattatray	B. Sc. I	MSP
115	3693	Patil Mayur Arvind	B. Sc. I	mayur
116	3694	Patil Megha Rajaram	B. Sc. I	Megha
117	3695	Patil Minal Popat	B. Sc. I	menal
118	3696	Patil Monika Ganesh	B. Sc. I	mpatil
119	3697	Patil Monika Ghansham	B. Sc. I	Patil M
120	3698	Patil Nilesh Tanaji	B. Sc. I	Npatil
121	3699	Patil Niranjan Ramesh	B. Sc. I	NRP
122	3700	Patil Nivas Shivaji	B. Sc. I	Nivas
123	3701	Patil Omkar Ashok	B. Sc. I	Omkar



124	3702	Patil Omkar Suresh	B. Sc. I	Patilos
125	3703	Patil Onkar Vijay	B. Sc. I	onkar
126	3704	Patil Pallavi Chandrakant	B. Sc. I	Patil
127	3705	Patil Prasad Pandurang	B. Sc. I	PPPatil
128	3706	Patil Prashant Pandurang	B. Sc. I	PPB
129	3707	Patil Prashant Vasant	B. Sc. I	PVP
130	3708	Patil Rahul Kakaso	B. Sc. I	RkPatil
131	3709	Patil Rushikesh Anandrao	B. Sc. I	Rpatil
132	3710	Patil Rushikesh Mahadev	B. Sc. I	AMP
133	3711	Patil Rushikesh Shankarrao	B. Sc. I	Rpatil
134	3712	Patil Raturaj Rajgonda	B. Sc. I	RRP
135	3713	Patil Sarita Sanjay	B. Sc. I	SSP
136	3714	Patil Saurabh Surykant	B. Sc. I	SSP
137	3715	Patil Shivani Suresh	B. Sc. I	Shivani
138	3716	Patil Shubham Bhagvan	B. Sc. I	SBP
139	3717	Patil Snehal Ramchandra	B. Sc. I	snel
140	3718	Patil Sourabh Vilas	B. Sc. I	SVP
141	3719	Patil Suraj Adhikrao	B. Sc. I	SAPatil
142	3720	Patil Suyash Vikas	B. Sc. I	SVP

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**Department of Physics**  
 Certificate Course in  
**"ELECTRICAL MAINTENANCE AND SAFETY AWARENESS"**  
 2017-2018

**Mark sheet**

Sr. No.	Roll No.	Name of the student	Class	Marks		
				Paper I (50)	Paper II (50)	Total (100)
1	4324	Bhagat Ravina Mahadev	B. Sc. III	40	40	80
2	4325	Honmane Shobha Machhindra	B. Sc. III	45	35	80
3	4326	Jamdade Dhanashri Vijay	B. Sc. III	30	40	70
4	4327	Lugade Adhik Anandrao	B. Sc. III	35	40	85
5	4328	Mulla Roman Mahamadaraphik	B. Sc. III	30	40	70
6	4329	Mulla Souphiya Dilawar	B. Sc. III	42	37	79
7	4330	Patil Amol Krushnat	B. Sc. III	30	40	70
8	4331	Patil Aniket Jagannath	B. Sc. III	38	40	78
9	4332	Patil Arati Bhagwat	B. Sc. III	40	40	80
10	4333	Patil Ashwini Ashok	B. Sc. III	35	40	75
11	4334	Patil Sayali Madhukar	B. Sc. III	37	40	77
12	4335	Pawar Pooja Chandrakant	B. Sc. III	40	35	75
13	4336	Shendage Sayali Sanjay	B. Sc. III	30	40	70
14	4337	Shinde Anil Shivaji	B. Sc. III	30	40	70
15	4338	Shinde Harshavardhan Bhairu	B. Sc. III	42	38	80
16	4339	Suryawanshi Amruta Anil	B. Sc. III	35	42	77
17	4340	Zambare Suraj Sudhakar	B. Sc. III	30	40	80



18	4363	Mulla Heena Shabbir	B. Sc. III	40	40	80
19	4001	Bangar Shweta Suresh	B. Sc. II	40	40	80
20	4002	Bhasme Aditya Sunil	B. Sc. II	35	42	77
21	4003	Dagade Adarsh Sanjay	B. Sc. II	30	40	80
22	4004	Dhok Akash Sanjay	B. Sc. II	35	40	75
23	4005	Jadhav Rutuja Uttam	B. Sc. II	40	40	80
24	4006	Koli Pragati Shrimant	B. Sc. II	42	35	77
25	4007	Koli Sachin Subhash	B. Sc. II	30	40	70
26	4008	Koli Sourabh Rajendra	B. Sc. II	39	40	79
27	4009	Kumbhar Abhishek Sanjay	B. Sc. II	40	40	80
28	4010	Mane Rohit Jagannath	B. Sc. II	30	40	70
29	4011	More Ujwala Vidyadhar	B. Sc. II	36	40	76
30	4012	Mulani Sumaiyya Shahabuddin	B. Sc. II	35	40	75
31	4013	Patil Akshata Vijay	B. Sc. II	30	40	70
32	4014	Patil Milind Madhukar	B. Sc. II	35	40	75
33	4015	Patil Omkar Bhupal	B. Sc. II	42	38	80
34	4016	Patil Pravin Prakash	B. Sc. II	30	40	70
35	4017	Patil Reshma Ashok	B. Sc. II	32	40	72
36	4018	Patil Sagar Sanjay	B. Sc. II	40	35	75
37	4019	Patil Vikram Bajirao	B. Sc. II	30	40	70
38	4020	Pawar Ashwini Arvind	B. Sc. II	32	40	72
39	4021	Sawant Mahesh Mohan	B. Sc. II	42	38	80
40	4022	Zambre Harshavardhan Pandirtao	B. Sc. II	45	40	85
41	4023	Aldar Rutuja Dagdu	B. Sc. II	40	40	80
42	4024	Bakare Krishna Anil	B. Sc. II	45	35	80
43	4025	Chavan Ashitosh Ramesh	B. Sc. II	30	40	70
44	4026	Chavan Sayali Suresh	B. Sc. II	35	40	85

45	4027	Gaikwad Snehal Nagesh	B. Sc. II	45	40	85
46	4028	Kalabage Suraj Jayawant	B. Sc. II	40	42	82
47	4029	Kharmate Komal Ramesh	B. Sc. II	45	40	85
48	4030	Mali Prajakta Ramchandra	B. Sc. II	45	40	85
49	4031	Mane Aishwarya Hanmant	B. Sc. II	40	40	80
50	4032	Mane Monika Popat	B. Sc. II	45	35	80
51	4033	More Shital Sunil	B. Sc. II	30	40	70
52	4034	Nalawade Shubham Shashikant	B. Sc. II	30	40	70
53	4035	Nimbalkar Snehal Sambhaji	B. Sc. II	39	40	79
54	4036	Patil Anagha Ajit	B. Sc. II	40	40	80
55	4037	Patil Gayatri Ankush	B. Sc. II	45	40	85
56	4038	Patil Jayashree Shankar	B. Sc. II	37	42	79
57	4039	Patil Pooja Pandurang	B. Sc. II	32	40	82
58	4040	Patil Poonam Pandurang	B. Sc. II	45	40	85
59	4041	Patil Rutuja Tanaji	B. Sc. II	40	40	80
60	4042	Pawar Anuradha Anil	B. Sc. II	45	40	85
61	4043	Sasane Suraj Ashok	B. Sc. II	37	42	79
62	4044	Shah Bhakti Sandesh	B. Sc. II	45	40	85
63	4045	Shendage Mayuri Ravindrath	B. Sc. II	37	42	79
64	4046	Shendage Shubhangi Maruti	B. Sc. II	32	40	82
65	4047	Shinde Nilam Gajanan	B. Sc. II	45	40	85
66	4048	Shinde Poonam Gunwant	B. Sc. II	40	40	80
67	4049	Shinde Rhunal Dhanaji	B. Sc. II	37	42	79
68	4050	Suryawanshi Dhanashri Baburao	B. Sc. II	45	40	85
69	4187	Babar Rushikesh Dilip	B. Sc. II	45	40	85
70	4188	Bansode Pradnya Arun	B. Sc. II	37	42	79
71	4189	Bhosale Monali Popat	B. Sc. II	45	40	85



72	4190	Bhosale SahebraoDagdu	B. Sc. II	37	42	79
73	4191	BodakeMinol Shankar	B. Sc. II	32	40	82
74	4192	Chavan Omkar Sunil	B. Sc. II	45	40	85
75	4193	Chavan Yogesh Balasaheb	B. Sc. II	40	40	80
76	4194	Damate Pranali Shailendra	B. Sc. II	45	40	85
77	4195	Dubole Pradip Ashok	B. Sc. II	37	42	79
78	4196	Ghadage Arati Rajendra	B. Sc. II	32	40	82
79	4197	Ghaodake Amar Vijaykumar	B. Sc. II	37	42	79
80	4198	Gorad Yogeshwari Prakash	B. Sc. II	32	40	82
81	4199	Hankare Nilesh Dilipkumar	B. Sc. II	45	40	85
82	4200	Hatitkar Komal Jagannath	B. Sc. II	37	42	79
83	3661	Mali Pranali Mahadev	B. Sc. I	45	40	85
84	3662	Mali Rohan Gajanan	B. Sc. I	37	42	79
85	3663	Mane Aniket Ravsaheb	B. Sc. I	32	40	82
86	3664	Mane Avinash Dipak	B. Sc. I	45	40	85
87	3665	Mane Chandrakant Bhagwan	B. Sc. I	40	40	80
88	3666	Mane Kishor Sanjay	B. Sc. I	45	40	85
89	3667	Mane Mahesh Mohan	B. Sc. I	37	42	79
90	3668	Mane Shubham Vishvanath	B. Sc. I	32	40	82
91	3669	Mane Sujit Suryakant	B. Sc. I	37	42	79
92	3670	Mane-Patil Rushikesh Prakash	B. Sc. I	32	40	82
93	3671	Mohite Abhijit Rajaram	B. Sc. I	37	42	79
94	3672	Mohite Sanket Suhas	B. Sc. I	45	40	85
95	3673	Mohite Sukanya Vitthal	B. Sc. I	37	42	79
96	3674	More Akshay Jaywant	B. Sc. I	32	40	82
97	3675	Nadaf Kausar Shamshuddin	B. Sc. I	45	40	85
98	3676	Nalawade Akash Ananda	B. Sc. I	40	40	80

99	3677	Nalawade Rutuja Ravsao	B. Sc. I	37	42	79
100	3678	Nalawade Vishvesh Sudam	B. Sc. I	32	40	82
101	3679	Nimbalkar Suraj Popat	B. Sc. I	45	40	85
102	3680	Patankar Rupali Namdev	B. Sc. I	37	42	79
103	3681	Patil Abhijit Tukaram	B. Sc. I	32	40	82
104	3682	Patil Abhishek Ravindra	B. Sc. I	37	42	79
105	3683	Patil Aditi Sunil	B. Sc. I	32	40	82
106	3684	Patil Ajay Ashok	B. Sc. I	45	40	85
107	3685	Patil Akshay Arun	B. Sc. I	37	42	79
108	3686	Patil Anuja Arun	B. Sc. I	45	40	85
109	3687	Patil Ashish Balasaheb	B. Sc. I	37	42	79
110	3688	Patil Dhairyasheel Avdhut	B. Sc. I	32	40	82
111	3689	Patil Kiran Kundlik	B. Sc. I	45	40	85
112	3690	Patil Komal Krushnat	B. Sc. I	40	40	80
113	3691	Patil Kunal Kumar	B. Sc. I	45	40	85
114	3692	Patil Madhura Dattatray	B. Sc. I	45	40	85
115	3693	Patil Mayur Arvind	B. Sc. I	37	42	79
116	3694	Patil Megha Rajaram	B. Sc. I	32	40	82
117	3695	Patil Minal Popat	B. Sc. I	37	42	79
118	3696	Patil Monika Ganesh	B. Sc. I	32	40	82
119	3697	Patil Monika Ghansham	B. Sc. I	45	40	85
120	3698	Patil Nilesh Tanaji	B. Sc. I	37	42	79
121	3699	Patil Niranjan Ramesh	B. Sc. I	45	40	85
122	3700	Patil Nivas Shivaji	B. Sc. I	37	42	79
123	3701	Patil Omkar Ashok	B. Sc. I	32	40	82
124	3702	Patil Omkar Suresh	B. Sc. I	45	40	85
125	3703	Patil Onkar Vijay	B. Sc. I	40	40	80



126	3704	Patil Pallavi Chandrakant	B. Sc. I	45	40	85
127	3705	Patil Prasad Pandurang	B. Sc. I	45	40	85
128	3706	Patil Prashant Pandurang	B. Sc. I	37	42	79
129	3707	Patil Prashant Vasunt	B. Sc. I	32	40	82
130	3708	Patil Rahul Kakaso	B. Sc. I	45	40	85
131	3709	Patil Rushikesh Anandrao	B. Sc. I	37	42	79
132	3710	Patil Rushikesh Mahadev	B. Sc. I	45	40	85
133	3711	Patil Rushikesh Shankarrao	B. Sc. I	45	40	85
134	3712	Patil Raturaj Rajgonda	B. Sc. I	37	42	79
135	3713	Patil Sarita Sanjay	B. Sc. I	45	40	85
136	3714	Patil Saurabh Surykant	B. Sc. I	37	42	79
137	3715	Patil Shivani Suresh	B. Sc. I	32	40	82
138	3716	Patil Shubham Bhagvan	B. Sc. I	45	40	85
139	3717	Patil Snehal Ramchandra	B. Sc. I	40	40	80
140	3718	Patil Sourabh Vilas	B. Sc. I	45	40	85
141	3719	Patil Suraj Adhikrao	B. Sc. I	37	42	79
142	3720	Patil Suyash Vikas	B. Sc. I	32	40	82

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