Rayat Shiksha Santha's

R.C. Shahu College Kolhapur

Department of physics

Short Term Course Report (2017-18)

Department of physics runs a short term course (COC) entitled 'Repairing of Electronic devices & Instruments' for B.Sc.-III students. The purpose of this Course is to provide basic knowledge of students related with electronic devices and their applications, soldring methods, component study etc. The duration of this short term course is of 30 hour . Dr.V.V.Killedar ,HOD physics working as the coordinator of the course .

Particularly for this year this course is run for B.Sc.III Physics students so that after completion of B.Sc. Degree the students can use this knowledge for self business or in job in electronics industry. •6 students have taken admission to this course. The course fee is Rs.200/per student.

Inauguration of the course was held on 1 Sept 2017 at 11 p.m. in Raman Laboratory department of physics. The course was inaugurated with the auspicious hands of Hon'ble Pri.C.J.Khilare.Miss Namrata Sutar student of B.Sc.III welcomes to all guest. Dr. V.V. Killedar, Head Dept. of Physics was presided the function. Dr.Killedar elaborated upon the need of the course. Chief guest Prin. Dr. C.J.Khilare has given valuable guidance to Student and motivate them to do more short term courses so that they can get better jobs. Mr.P.S.Chougule,HOD Statistics was also present during this function.At the end of this function Miss A.S.Patil given Vote of Thanks.

KOLHAPUR S

Department of Physics Rajarshi Chh. Shahu College, Kolhapur.

Rajarshi Chhatrapati Shahu college, Kolhapur

Department of Physics

Notice

All the students of B.Sc.III Physics are hereby informed that The department of Physics is going to run the short term course entitled 'Repairing of Electronic Devices and Instruments'. So all the B.Sc.III students should pay the course fee of Rs.200/- before 29th Aug.2017.

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Department of Physics
Chh. Shahu College, Kolhapur.

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Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu college, Kolhapur

Department of Physics

Notice

All the students of B.Sc.III Physics are hereby informed that the Inaugural Function of the short term course entitled 'Repairing of Electronic Devices and Instruments 'will held on 1st Sept.2017 at 11.00am in Raman Laboratory. So all the students should attend the function.

Course Coordinator

Dept.of Physics

Principal

R.C.Shahu college, Kolhapur



Inaugural Function- Short Term Course on 'Repairing of Electronic Devices & Instruments', 1/9/2017 Year (2017-18)













Head

Department of Physics

Rajarshi Chh. Shahu College, Kolhapur.



Lectures- Short Term Course on

'Repairing of Electronic Devices & Instruments'

Year 2017-18









Head
Department of Physics
Rajarshi Chh. Shahu College, Kolhapur.



Rayat Shikshan Sanstha's Rajarshi Chhatrapati Shahu College, Kolhapur **Department of Physics**

Short term course on "Repairing of Electronic Devices and Instruments"

Academic Year 2017-18

Aims	&	obi	ectiv	e:
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- II) To provide basic knowledge of electronic components to understand the working of electronic components.
- III) To improve electronic skill among the students.
- **IV)** To provide job opportunity or self-employment to the students.
- Course Fee: Rs.200/-
- > Course duration: 30 period of 48 min duration
- > Students admitted for the course: B.Sc.III students
- > Syllabus:

Unit-I: Introduction of electronic Ideas

Safety and precaution of instruments, soldering and disoldering technique, current, voltage, amplitude and frequency.

Unit-II: Introduction and measurement of basic electronic components

Resistance, capacitance, inductance, transformer construction and working of transformer and its types, type of power supplies i.c. a.c. and d.c., use of multimeter and testing of components

Unit-III: Semiconductor devices

6 P

Introduction to basic semiconductor concept, diode and its types and working, transistors and its type and working, IC's

Unit-IV: Building simple circuits on breadboards

Introduction to PCB, Tag board, Vero board and Breadboard

Unit V: Practical work

6P

4 P

- 1. Construction of Dark sensor using transistor, phototransistor and photodiode.
- 2. Construction of 5V Regulated power supply.
- 3. Construction of a melody generator using UM66.

References:

- 1. Electronic instruments Hand Book- Clyde F.Combs
- 2. Electronic engineers Reference Book, L.W.Tuner
- 3. Starting Electronics, Keith Brindley

Department of Physics Refershi Chh. Shahu College, Kelhapur.



Rayat Shikshan Sanstha's Rajarshi Chhatrapati Shahu College, Kolhapur Department of Physics

Short term course on "Repairing Of Electronic Devices and Instruments"

Year 2017-18

List of admitted students and fees received

Sr. No.	Name of the student	Fee collected Rs.	Student sign.
1	BODAKE SARDAR PANDURANG	200/-	Quite.
2	CHOUGULE AJINKYAJAYAWANT	200/-	(Bougle
3	CHOUGULE VINAYAK ANANDA	200/-	Rhogly
4	*GAYAKWAD MAMRATA NAVANATH	200/-	Daikaeus
5	GURAV KRISHIKESH PARASHRAM	200/-	
6	GURAV MANOJ MAHADEV	200/-	Marent
7	JADHAV AMIT ASHOK	200/-	3418
8	JADHAV OMKAR NARAYAN	200/-	Omkar.
9	*KADAM PRATIKSHA JAYASINGH	200/-	Pikadam
10	MISHRA UMESH RAMESH	200/-	Links.
11	MOKASHI SAURABH B.	200/-	
12	*MORE KARISHMA BHARAT	200/-	&Bmy-
13	MULLA HAIDER SHAHAJAHAN	200/-	Charles .
14	*PARIT MADHURI MARUTI	200/-	The Carl
15	SHIRKE ANIKET KIRAN	200/-	HI M. Rait
16	SUTAR MANISH VILAS	200/-	metal
	Total Rs.	3200/-	

Rs. 3200/- deposited in office duted 31/3/2018 Cheque No. 637414

Head

Department of Physics Rejarshi Chh. Shahu College, Kelhapur. HOLYAPUN STANDARD STA

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Rajarshi Chhatrapati Shahu College, Kolhapur Department of Physics
Short Term Course 2017-18

Repairing of Electronic Devices & Instruments

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Name of the student	Bodake Sardar Pandurang	124 Chandarangi Guruputra Y.	Chougule Ajinkya Jaywant	Chougule Vinayak Ananda	Gayaka	Gurav Manoj Mahadev	Gurav Rushikesh Parashram	Jadhav Amit Ashok	Jadhav Omkar Narayan	133 Kadam Pratiksha Jaysing	134 Mishra Umesh Ramesh	135 Mokashi Saurabh B	136 More Kashmira Bharat	Mulla Haider Shahajan	Parit Madhuri Maruti	Shirke Aniket Kiran	Sutar Manish Vilas
Roll No.	123	124	125	126	127 (128	129 (130 J	131 J	133	134	135	136 N	137 N	138 P	139 S	140 S
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Head & Good

Department of Physics
Rajarshi Chh. Shahu Coilege, Kolhapur.

Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Physics

B.Sc. III (2017-2018)

Attendance Of

Course Test

Date &Day: 21/04/2018

Time: 12.00 to 1.00 PM

Sr. Roll No No		Name Of Student	Sign			
1	123 Sardar P. Bodake		Buke			
2	124	Guruputra Y. Chandargi				
3	125	Ajinkya J. Chougule	Asw			
4	126	Vinayak A. Chougule	Achougub			
5	127	Namarata N. Gaikwad	Poleman			
6	128	Manoj M. Gurav	gurane			
7	129	Rushikesh P. Gurav	Genrai .			
8	130	Amit A. Jadhav	Tarborto			
9	131	Omkar N. Jadhav	Obertone.			
10	132					
11	133	Pratiksha J. Kadam	Hodan.			
12	134	Umesh R. Mishra	amista			
13	135	Sourabh B. Mokashi	Don			
14	136	Kashmira B. More	Karsh			
15	137	Haider S. Mulla	-			
16	138	Madhuri M. Parit	4179. Rell			
17	139	Aniket K. Shirke	100			
18	140	Manish V.Sutar	muder			



Head

Department of Physics

Rajarshi Chh. Shahu College, Kolhapur.

Rajarshi Chhatrapati Shahu College, Kolhapur

Short Term Course In Physics

Repairing of Electronic Devices and Instruments

Date: 21/4/2018	N	1aximum Marks: 50)	Time: 60 Min.
Class: B.Sc.III	Roll No. 123 Nam	e of the student: B	odake Sake	las Pandusang
 All ques Each que 	tions are compulso tions carry equal m estion is for 2 Mark rrect answer alphab	narks cs		44
Q.1 For soldering	of electronic comp	onents on PC	is used.	
a) Soldrin	g Iron b) Elect	rical Geyser c)	Electric heater	a
Q.2. 100 Coulomb	os of electricity flov	w past a point in an	electrical circuit, in	20 sec. The
	b) 2A c) 5A			C
Q.3. If A current	of 1 A flows through	gh a resistor of 10 c	Ω. Then voltage pro	duced across
resistor is				a
a)10V	b)1V c)100V			
Q.4. One nano is	equal to			C
a) 1 x 10	$0^{-6} A$ b)1 x $10^{-8} A$	A c) $1,000 \times 10^{-12}$	² A	
Q.5 Five $10 \text{ k} \Omega \text{ r}$	esistors are in serie	es. One 50 k Ω resis	stor is placed in para	illel across them
all. The overall a) 50 k Ω	resistance is b) 52 k Ω			e
Q.6 The law of ser	ies resistor says tha	at the overall resista	ance of a number of	resistor in series
is the sum of the in True or false?	dividual resistance			True
Q.7. The capacitor	stores electrical en	ergy in the form of		a
a) Electric field	b) magnetic	field c) electro	-magnetic field	
Q.8 An inductor or	coil electrical ene	rgy is stored in the	e form of	b
a) Electric field	b) magnetic	field c) electro	-magnetic field	
Q.9 To build an ele	ectronic circuit	used		E /
a) Breadboa	ard b) PCB	c) both (a) & (b)		
Q.10 Oscillator circ	cuits are use to pro-	duce voltage		
a) a.c.	b) d.c.	c) both a.c.	and d.c.	b L

Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Physics

B.Sc. III (2017-2018)

Result of short -term Course

Sr. Roll No No		Name Of Student	Marks Obtained		
1	123 Sardar P. Bodake		44		
2	124	Guruputra Y. Chandargi			
3	125	Ajinkya J. Chougule	44		
4	126	Vinayak A. Chougule	42		
5	127	Namarata N. Gaikwad	38		
6	128	Manoj M. Gurav	40		
7	129	Rushikesh P. Gurav	40		
8	130	Amit A. Jadhav	42		
9	131	Omkar N. Jadhav	42		
10	132				
11	133	Pratiksha J. Kadam	38		
12	134	Umesh R. Mishra	40		
13	135	Sourabh B. Mokashi	38		
14	136	Kashmira B. More	44		
15	137	Haider S. Mulla			
16	138	Madhuri M. Parit	46		
17	139	Aniket K. Shirke	38		
18	140	Manish V.Sutar	40		

KOLHAPUR CO

Department of Physics Rajarshi Chh. Shahu College, Kolhapur.





"Education through self-helf is our motto" - Karmaveer

Rayat Shikshan Sanstha's



Rajarshi Chhatrapati Shahu College, Kolhapur

(Reaccredited 3rd Cycle by NAAC at 'A' Grade with CGPA 3.07)

DEARTMENT OF PHYSICS

CERTIFICATE OF PARTICIPATION

This is to certify that, Mr./Miss.

has successfully completed the certificate course on "Repairing of Electronic Devices

& Instruments" of 30 period duration conducted by Department of Physics during

academic year 2017-2018.

Dr. V. V. Killedar Coordinator

Dr. C. J. Khilare Principal



