

date: 9/8/2018

To

**The Principal,**

Rajarshi Chhatrapati Shahu College, Kolhapur

**Subject: Permission to start short term certificate course in Physics**

Respected Sir,

Department of Physics is willing to run short term certificate course entitled "Understanding of Basic Electronic Devices". Herewith enclosing the details of this course for your kind perusal.

Please give us the permission to start the said course from academic year 2019-20.

Thanking You,



Yours faithfully,

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

Copy to: The IQAC Co-ordinator, R.C.Shahu college, Kolhapur

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

**Short term course on "Understanding of Basic Electronics Devices"**

**Academic Year 2019-20**

➤ **Aims & objective:**

1. To provide basic knowledge of electronic components to understand the working of electronic components.
2. To improve electronic skill among the students.
3. To provide job opportunity or self-employment to the students.

➤ **Course Fee:** Rs.200/-

➤ **Course duration:** 30 Periods of 48 Minutes

➤ **Students admitted for the course:** B.Sc.III Physics students

➤ **Syllabus:**

**Unit-I: Introduction Basic electricity**

**6 P**

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

**Unit-II: Introduction of basic electronic components**

**6 P**

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

**Unit-III: Understanding of Semiconductor devices**

**6 P**

Introduction to basic semiconductor concept, diode and its types and working, transistors and its type and working.

**Unit IV: Digital IC and Timmer IC555**

**3P**

IC pin digarms ,various digital IC's,Timmer 555 its pin diagarma,block digram and working,applications of IC 555.

**Unit-IV: Building simple circuits on breadboards**

**2 P**

Introduction to PCB, Tag board, Vero board and Breadboard and its uses.

**Unit V: Practical work**

**6P**

1. Testing of digital IC's.
2. Construction of 5V Regulated power supply.
3. Construction of astable, bistable , monostable multivibrator circuits.

**References:**

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



*[Signature]*  
**Head**  
 Department of Physics  
 Rajarshi Chh. Shahu College, Kolhapur

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

BoS for short term course on **“Understanding of Basic Electronic Devices”** is constituted by discussion with Principal and IQAC Coordinator. Following is the constitution of Board of studies in Physics for Year 2019-20

Name of the BoS member	Designation	Signature
Prin.Dr. Salunkhe S.T. Principal, R.C.Shahu College, Kolhapur	BoS Chairman	
Dr. Pawar S.P. R.C.Shahu College, Kolhapur	IQAC Coordinator Member	
Dr. Lavevekar S.S. In-charge Commerce Faculty	Chairman Criteria-I Member	
Dr. Killedar V.V. In-charge Science Faculty, R.C.Shahu ollege, Kolhapur	Head, Department of Physics Member	
Dr.Kamble P.D. Assistance Professor, The New College, Kolhapur	External Subject Expert Member	



**Principal,**  
**Rajarshi Chh. Shahu College**  
**Kolhapur.**

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



Estd : 1961

Rayat Shikshan Sanstha's

## RAJARSHI CHHATRAPATI SHAHU COLLEGE

Kadamwadi Road, Kolhapur - 416 003 (Maharashtra)

(Arts, Commerce, Science, B. C. S. and Vocational)

NAAC Reaccredited 'A' (with CGPA 3.07)

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E-mail : klpshahucol@gmail.com Website : www.rcshahucollege.in



Principal

Dr.S.T. Salunkhe

M.Sc., Ph.D.

Univ. Aff. No. UKF- 1092/

4970/M-SHI-3/1994,

Jr. College Code J 23.09.001

date: 4/12/2018

To

Dr.P.D.Kamble

Assistant professor

Department of Physics

The New College, Kolhapur

Subject: Consent to work as subject expert for BoS in Physics.

Sir,

Department of Physics is going to run short term course on "Understanding of Basic Electronic Devices" for the academic year 2019-20 . Here with request you to give your consent to work as subject expert for BoS in Physics.

Thanking you,

Yours faithfully,

  
Head

Department of Physics  
Rajarshi Chh. Shahu College, Kolhapur.



  
Principal,  
Rajarshi Chh. Shahu College  
Kolhapur.

Date 10/12/2018

To  
The principal  
R.C.Shahu college, Kolhapur

Subject: Consent to work as subject expert for BoS in Physics.

Sir,

Thank you very much for inviting me to work on BoS in Physics for short term course entitled Understanding of Basic Electronic Devices run by Department of Physics of your college for the year 2019-20..

I will accept the invitation and give my consent to work as BoS member for the said course.

Thanking you,

Yours faithfully,



Dr.P.D.Kamble

The New College, Kolhapur

Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Physics

Short term course on "Understanding of Basic Electronic Devices"

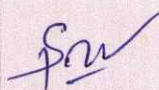

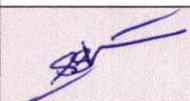


Academic Year 2019-20

Meeting Notice

The meeting of BoS in Physics will be held on 10 /01 /2019 at 11:00 am to discuss the curriculum of short term course "Understanding of Basic Electronic Devices" to be run by the department of Physics. All BoS members should attend the meeting.

• **Agenda of the meeting**

1. Finalize the curriculum of short term course proposed by Department of Physics.
2. To give permission to start the course from academic year 2019-20
3. Any other subject to be discussed at the time of meeting.






Name of the BoS member	Designation	Signature
Dr. Salunkhe S.T. Principal, R.C.Shahu College, Kolhapur	BoS Chairman	
Dr. Pawar S.P. Assistant Professor (Chemistry) R.C.Shahu College, Kolhapur	IQAC Coordinator Member	
Dr. Lavekar S.S. In-charge Commerce Faculty	Chairman Criteria-I Member	
Dr. Killedar V.V. In-charge Science Faculty , R.C.Shahu college, Kolhapur	Head, Department of Physics Member	
Dr. Kamble P.D. Assistant Professor, The New College, Kolhapur	External Subject Expert Member	

### Minutes of the meeting:

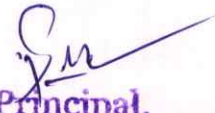
The meeting of BoS in Physics is held on 10/01/2019 at 11:00 am in the Department of Physics. In this meeting following decisions are taken:

4. Discussion on curriculum of short term course "Understanding of Basic Electronic Devices" is held and BoS is unanimously decided to sanction the curriculum of the said course.
5. The BoS decided to give permission to Department of Physics to run this course from the year 2019-20.
6. This course should be run for at least for next five academic years.

Following members are present for the meeting.

Name of the BoS member	Designation	Signature
Prin.Dr. Salunkhe S.T. Principal, R.C.Shahu College, Kolhapur	BoS Chairman	
Dr. Pawar S.P. R.C.Shahu College, Kolhapur	IQAC Coordinator Member	
Dr. Lavkar S.S. In-charge Commerce Faculty	Chairman Criteria-I Member	
Dr. Killedar V.V. In-charge Science Faculty, R.C.Shahu College, Kolhapur	Head, Department of Physics Member	
Dr. Kamble P.D. Assistance Professor, The New College, Kolhapur	External Subject Expert Member	



  
Principal,  
Rajarshi Chh. Shahu College  
Kolhapur.