

Department of Physics

Shri Shivaji Education Society Amravati's
Science College

Congress Nagar, Nagpur 440 012
Accredited with CGPA of 3.51 at 'A+' grade



Date 03/07/2023

Call for Meeting

All the regular faculty members are requested to attend the meeting on 5th July 2022 at 11:00am at the Common Staff Room, Department of Physics.

Agenda of Meeting:

Confirmation of Minutes of Last Meeting

1. Theory Syllabus Allotment for teaching to ODD & EVEN Semester 2023-2024
2. Allotment of various departmental committees
3. Any matter with the permission of chair.

Dr. S. W. Anwane

Circulated to all
regular staff

Dr. G. L. Jadhav

Ms. B. T. Kumbhare

Asst. S. K. Sayyad

Dr. R. N. Patil

Dr. S. V. Khange

05/07/2023

Following faculty members attended the meeting
in the staffroom at 11:00 am.

Sr. No. Name

1. S. W. Anwane
2. Dr. S. V. Khauje
3. Dr. G. L. Jadhav
4. Mr. B. T. Kumbhare
5. Dr. S. K. Sayyad
6. Dr. R. N. Patil

Sr. No.

Dr. S. V. Khauje

Dr. G. L. Jadhav

Mr. B. T. Kumbhare

Dr. S. K. Sayyad

Dr. R. N. Patil

**Shri Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur
Department of Physics
Minutes of the Meeting held on 5-7-2023**

The regular meeting of Faculty members (Physics) was called on 5th July 2023 at 11:00 am in the staff room. The meeting was headed and chaired by the Head of Department Prof. S. W. Anwane.

Following faculty members were present in the meeting.

1. Dr. S. W. Anwane, Professor & Head
2. Dr. G. L. Jadhav
3. Dr. R. J. Dhokane
4. Dr. S. K. Sayyed
5. Mr. B. T. Kumbhare
6. Dr. Sugandha Khangar

• **Agenda of Meeting**

Agenda#1: Approval of Minutes of last Meeting:

The minutes of last meeting was unanimously approved which was read by Dr. G. L. Jadhav and were unanimously approved by all faculty members.

Agenda#2: Portfolio Distribution

Distribution of Various Portfolios for smooth conduct of Department of Physics during academic year 2023-24

| Portfolios | Teacher In-charge |
|---|--|
| Laboratory In-charge, Result Analysis, <i>Kundali</i> File Preparation, and Lab Manual Preparation & Updating, Online | B.Sc.-I - Dr. Shahin Sayyed + Dr. Sugandha Khangar B.Sc.-II - Dr. G. L. Jadhav + Mr. Bhupendra Kumbhare |

| | |
|---|---|
| Examinations, Odd Examination on College Level | B.Sc.-III - Dr. Ragini Dhokane + Prof. S. W. Anwane M.Sc. I – Mr. Bhupendra Kumbhare+ Prof. S.W. Anwane M.Sc. II – Dr. Sugandha Khangar+ Prof. S. W. Anwane <i>All teachers will submit Kundli file to RJD.</i> |
| Physics Society | Dr S V Khangar |
| News and Publicity | Dr. G. L. Jadhav+ 1Ad-hoc |
| Departmental Council | Dr. S W Anwane - <i>President</i> Dr. G. L. Jadhav – <i>Secretary</i> All faculty members - Member of the Council |
| Departmental Data Mining for Office, CDC, CPE etc | Prof. S. W. Anwane + All faculty members NAAC Cri 1 (CA) – SVK, Cri 2 (TL&E) – BTK, Cri 3 (RI&E) – RJD, Cri 4 (I&LR) & Cri 5 (SS&P) - SKS, Cri 6&7 (GL&M,IV&BP)– GLJ |
| Departmental Library | Mr. Bhupendra Kumbhare, Dr. G. L. Jadhav |
| Report Writing for Bharti | Dr. Shahin Sayyed, Two Ad-hoc teachers |
| Stock Verification (Due in April 2023) | All teachers will be involved while all non-teaching staff members will support & help in execution of verification activity |
| Timetable UG & PG | Dr. Ragini Dhokane + Dr. Sugandha Khangar |
| Research Center Activity | Dr. Ragini Dhokane + Dr. G. L. Jadhav |
| Website (Departmental Page) Management | Mr. Bhupendra Kumbhare, Ad-hoc teacher |
| Material Preparation Laboratory | Dr. Ragini Dhokane Dr. Shahin Sayyed Ad-hoc teacher |
| Sophisticated Instrumentation Laboratory | Dr. Ragini Dhokane + Dr. Shahin Sayyed Ad-hoc teacher |
| Purchase of Books | Prof. S. W. Anwane, Dr. Shahin Sayyed |
| Purchase of Lab instruments | Prof. S. W. Anwane, Dr. G.L.Jadhav |
| Purchase of Lab Chemicals | Prof. S. W. Anwane, Dr. Ragini Dhokane, Dr. Shahin Sayyed |

| | |
|------------------------------------|---|
| Shivaji Space Explorer Club | Mr. Bhupendra Kumbhare, Dr. Ragini Dhokane, Dr. Shahin Sayyad, Dr. G.L.Jadhav, Dr. Sugandha Khangar |
| Academic Monitoring | UG: BTK+Roshan Naik, PG: SKS+Nikhil Bhurse |
| PG Practical Improvement | Sem I & II RJD SEM III & IV SKS |

Agenda#3: Theory Distribution

This point remained un-attended in want of time.

Agenda#4: Stock Verification

All the faculty members have been informed to complete the stock verification within one week of July.

Agenda#5: PG Approval

Following faculty members are encouraged for PG approval from the RTM Nagpur University. The proposals of following staff members are ready for submission to University.

- Dr Ragini Dhokane
- Dr Sugandha Khangar,
- Shri B T Kumbhare
- Dr Shahin Sayyad
- Dr G L Jadhav

In case of Dr Ragini Dhokane, she is approved PG teacher by default being Ph.D. supervisor.

Agenda#6: Academic Monitoring

All the faculty members who have given the responsibility of Academic Monitoring were informed to monitor academics i.e., Lectures, Practical's, students feedback and issues related with the students.

Agenda7#: PG Practical Improvement

All the faculty members were directed to look into the practical's of PG and were informed to improve in the PG Practical's and abide to the NEP document of University for M Sc Sem I for 2023-24 batch.

Agenda#8: Instrument Purchasing

The faculty member who has given the responsibility of instrument purchasing was informed to discuss and make a list of Instrument purchasing.

Agenda#9: Chemical Purchasing

The faculty member who has given the responsibility of Chemical Purchasing was informed to discuss with the faculties and make a list of Chemical Purchasing as early as possible to avoid 11th hour rush.

Agenda#10: Practical Manual

All the physics faculty members were informed to look into the practical manual and were also directed to prepare manuals for BSc I, II, III-year courses including all the semesters.

Agenda#11: Shivaji Space Explorer

All the physics faculty members were informed to get involve and increase the number of activities related with the Shivaji Space explorer. Planning and preparation of events along with all the preparations required for the activities which are needed should be done within time for the smooth running of the event was also informed

Department of Physics



Shri Shivaji Education Society Amravati's Science College

Congress Nagar, Nagpur 440 012
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Dr. S. W. Anwane

Date 21/07/2023

Call for Emergent Meeting

All the regular faculty members are requested to attend the meeting on 22nd July 2022 at 1:00pm at the Common Staff Room, Department of Physics.

Agenda of Meeting:

Confirmation of Minutes of Last Meeting

1. Theory Syllabus Allotment for teaching to ODD Semester 2023-2024
2. Any matter with the permission of chair.

Dr. S. W. Anwane

PS: Without making major changes we shall distribute Half Paper per regular faculty member and will ensure 6 THEORY periods to each. This corrective measure will ensure - (a) each semester students will see 4 teachers and (b) 2 teachers names will appear for credit in results analysis and ASAR.

ODD SEMESTER THEORY WORKLOAD & DISTRIBUTION 2022-23

| Year | Paper I | Paper II |
|--------------------------------|--|---|
| B Sc I (Sem I) Section A | I Elasticity (SVK) II Viscosity (SVK) III Surface Tension (SKS) IV Mechanics (SKS) | I Electrostatics (BTK) II Dielectrics (BTK) III Time Vary Fields (SWA) IV Electric Current (SWA) |
| B Sc I (Sem I) Section B | I Elasticity (SVK) II Viscosity (SVK) III Surface Tension (SKS) IV Mechanics (SKS) | I Electrostatics (BTK) II Dielectrics (BTK) III Time Vary Fields (SWA) IV Electric Current (SWA) |
| B Sc II (Sem III) Section A | I Waves in Media (RJD) II Applied Acoustic (RJD) III Ultrasonic (SKS) IV Power Supply (SKS) | I Interferences (SVK) II Diffraction of Light (SVK) III Polarization (GLJ) IV EM Waves (GLJ) |
| B Sc II (Sem III) Section B | I Waves in Media (RJD) II Applied Acoustic (RJD) III Ultrasonic (SD) IV Power Supply (SD) | I Interferences (MD) II Diffraction of Light (YC) III Polarization (GLJ) IV EM Waves (GLJ) |
| B Sc III (Sem V) | I Atomic Physics (BTK) II Free Electron theory (BTK) III Statistical Physics (SWA) IV Statistical Physics (SWA) | I Quantum Mechanics (RJD) II Quantum Mechanics (RJD) III Nonmaterial (GLJ) IV Nanotechnology (GLJ) |

SWA-06+12, RNP-06+15, SVK-06+15, BTK-06+15, SKS-06+15, GLJ-06+15

CHB-1: Sarang Daf, CHB-2: Sapnil Belkhude, CHB-3: Manish Dhawale, CHB-4: Yograj Choudhary

| M. Sc Sem | Paper | Title of the Paper | Teacher |
|-----------|-------|---|---------|
| I | I | Mathematical Physics | SB |
| I | II | Electronics | CJ |
| I | III | Elective-I <ul style="list-style-type: none"> • Energy Devices • Experimental Techniques in Physics | KJ |
| I | IV | Research Methodology | BTK |
| III | I | Quantum Mechanics-II | RNP |
| III | II | Solid State Physics & Spectroscopy | GLJ |
| III | III | Materials Science-I | SKS |
| III | IV | Nanotechnology-I | SVK |

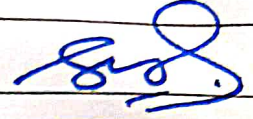
RJD-04, SVK-04, BTK-04, SKS-04, GLJ-04

KG-04, CJ-04, SB-04

| M. Sc Sem | Paper | Title of the Paper | Teacher |
|-----------|-------|---|--------------------|
| I | I | Mathematical Physics | Ad-hoc |
| I | II | Electronics | Ad-hoc |
| I | III | Elective-I <ul style="list-style-type: none"> • Energy Devices • Experimental Techniques in Physics | Ad-hoc |
| I | IV | Research Methodology | B T Kumbhare |
| III | I | Quantum Mechanics-II | Dr R N Pathare |
| III | II | Solid State Physics & Spectroscopy | Dr G L Jadhav |
| III | III | Materials Science-I | Dr Shahin K Sayyad |
| III | IV | Nanotechnology-I | Dr S V Khangar |

Following staff members attended the meeting on 22-7-2023 at 1 PM. It was re-scheduled as send-off function was delayed.


1. S. W. Annane
2. Dr. R. N. Patil
3. Dr. G. L. Jadhav
4. Miss. Kanchar Jivapurkar
5. Dr. S. V. Khargos
6. Mr. Sarang R. Daf
7. Mr. B. T. Kumbhare
8. Ms. Chanda P. Jatgade
9. Mr. Swapnil S. Belkhade



Patil



Jadhav



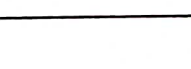
Jivapurkar



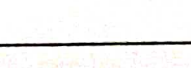
Khargos



Daf



Kumbhare



Jatgade



Belkhade

**Shri Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur
Department of Physics**

An emergent meeting of Faculty members (Physics) was called at 10:00 am on 19th August 2023 in the staff room. The intimation was served through the WhatsApp group. The meeting was headed and chaired by the Head of Department Prof. S. W. Anwane.

- **Faculty present**

Dr. S. W. Anwane

Head of Department

Dr. G. L. Jadhav

Dr. R. J. Dhokane

Dr. S. K. Sayyed

Mr. B. T. Kumbhare

Dr. Sugandha Khangar

Following Staff members attended the meeting on 19th August 2023 at 10:00 am

- Dr. S. W. Anwar
- Dr. G. L. Jadhav
- Dr. R. J. Dhokane
- Dr. S. K. Sayyed
- Mr. B. T. Kumbhare
- Dr. Sugandha Khangar

[Handwritten signatures]
Gadha
R. J. Dhokane
Shahin
B
Khangar

Minutes

• Agenda of Meeting

All the faculty members were briefed about the PM-USHA grants to strengthen the college and Department in particular. The college is planning to submit the proposal regarding the same.

Agenda#1: All the faculty members were given a detailed information about the PM-USHA.

All the faculty members were given a detailed information about the PM-USHA. The grants which will be given under this scheme will strengthen the colleges accordingly all the faculty members have given the responsibility.

Agenda#2: Purchase of necessary equipment's for the college.

All the faculty members were informed to prepare a list of purchasing the necessary equipment's required for the department in view of research. RNP was assigned to complete this information along with the Quotations.

Agenda#3: Well-equipped smart room having audio-visual capacity of the studio for recording the lecture.

All the faculty members were informed to prepare a list of equipment's and the things required for the recording Studio. SVK was assigned to complete this information along with the Quotations.

Agenda#4: List of Renovation of infrastructure of the Department.

All the faculty members were informed to prepare a list of infrastructure required for renovating the department.

Agenda#5: The meeting was held to discuss the activities under components of PM-USHA grants to strengthen the colleges.

The meeting came to an end as there was no matter for discussion.

14/12/2023

NOTICE for Teachers

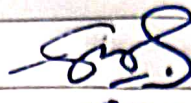

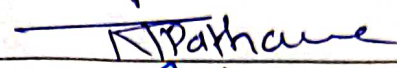
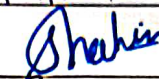
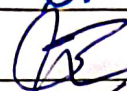
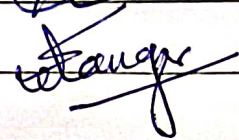
All the teaching staff members of our department are hereby informed to attend the meeting in our staff room at 11:30 am on 15th December 2023.

Agenda

- Confirmation of minutes of last two meetings
- Teaching workload allotment for Even Semester (UG & PG)
- Any matter with the permission of chair

Head,
Department of Physics

Following staff members attended the meeting on 15th December at 11:00 am.

| | | |
|----------------------|--|----------|
| Dr. S. W. Anwar |  | 15.12.23 |
| Dr. G. L. Jadhav |  | |
| Dr. R. J. Dhokane |  | |
| Dr. S. K. Sayyad |  | |
| Mr. B. T. Kumbhare |  | |
| Dr. Sugandha Khengar |  | |

Minutes of the meeting held on 15-12-2023

The following faculty members attended the meeting.

Prof. S. W. Anwane
Dr. G. L. Jadhav
Dr. R. J. Dhokane
Dr. S. K. Sayyed
Mr. B. T. Kumbhare
Dr. Sugandha Khangar
Ms Kanchan Jivnapurkar
Ms Chanda Jatgade
Mr Swapnil Belkhude

Head of Department

S. W. Anwane

Agenda #1

Prof S W Anwane welcomed all the members. Regarding confirmation of minutes he asked the members to suggest corrections/improvement to the minutes that were already circulated in the official WhatsApp group. As there was no corrections, the minutes were unanimously confirmed.

Agenda #2

After cordial discussion the allotment of theory teaching load was distributed as following.

A) UG

EVEN SEMESTER THEORY WORKLOAD & DISTRIBUTION

| Yr/Sem | Paper I | Paper II |
|---|---|---|
| B.Sc. I [Sem II] A | I Free Oscillations (SKS) A&B II Forced Oscillations (SKS) A&B III Transport Phenomenon in Gases (SVK) A&B IV Thermodynamics (SVK) A&B | I Gravitation (SWA) A&B II Astrophysics (SWA) A&B III Magnetism (BTK) A&B IV Magnetostatics (BTK) A&B |
| B.Sc. I [Sem II] B | I Free Oscillations (SKS) A&B II Forced Oscillations (SKS) A&B III Transport Phenomenon in Gases (SVK) A&B IV Thermodynamics (SVK) A&B | I Gravitation (SWA) A&B II Astrophysics (SWA) A&B III Magnetism (BTK) A&B IV Magnetostatics (BTK) A&B |
| B.Sc. II [Sem IV] A | I Solid state Physics (BTK) II X- Rays (BTK) III Solid state Physics (RJD) IV Laser (RJD) | I Solid State Electronics (MD) II Field Effect Transistor (YC) III Molecular Physics (GLJ) IV Raman spectroscopy (GLJ) |
| B.Sc. II [Sem IV] B | I Solid state Physics (SD) II X- Rays (SD) III Solid state Physics (RJD) IV Laser (RJD) | I Solid State Electronics (SVK) II Field Effect Transistor (SVK) III Molecular Physics (GLJ) IV Raman spectroscopy (GLJ) |
| B.Sc. III [Sem VI] Section A+B | I Relativity (GLJ) II Nuclear Physics (SWA) III Nuclear Physics (SWA) IV Bio Physics (GLJ) | I Amplifier (SKS) II Fibre optics (RJD) III Communication (SKS) IV Number Systems (RJD) |

B) PG

M. Sc. SEM-II (NEP)
 CN & NM [SWA+KJ]
 Statistical Physics [CJ]
 Spectroscopy or X-Rays [BTK]
 OJT [RJD]

M. Sc. SEM-IV
 Nuclear and Particle Physics [SVK]
 Solid State Physics [GLJ]
 Materials Science-II [SB]
 Experimental techniques [SKS]

M.Sc. Sem II is as per NEP and OJT (on Job Training) is allotted to RJD who is supposed to arrange training in a reputed industry for all students for duration not less than 15 days. Moreover, it was magnanimously decided that

- this responsibility of **non-teaching paper** is to be operated in yearly rotation among all teachers.

SWA 6T+12P=18+02T, RJD 6T+15P=21+00T, SVK 6T+15P=21+04T, BTK 6T+15P=21+04T, SKS 6T+15P=21+00T, GLJ 6T+15P=21+04T

02T KJ-Kanchan Jivnapurkar, 04T CJ-Chanda Jatgade, 04T SB-Swapnil Belkhude

| Semester | Paper | Section A | Section B | Load | |
|----------|-------|------------|-----------|------|--|
| II | I | 2SKS+2SVK | 2SKS+2SVK | 16 | |
| | II | 2SWA+2BTK | 2SWA+2BTK | | |
| IV | I | 2BTK+2RJD | 2BTK+2RJD | 16 | |
| | II | SD,YC+2GLJ | 2SVK+2GLJ | | |
| VI | I | 2SWA+2GLJ | | 4 | |
| VI | II | 2SKS+2RJD | | 4 | |

The meeting came to an end as there was no further matter for discussion.

Internal Academic Audit Session 2022-2023

Minutes of meeting

Date: 17/01/2023

Time: 11:00 am- 11:30 am

- 1) Udemmy certificates of all the qualified students should be collected and should also be maintained proper record.
- 2) Two research papers should be published every year by each faculty members.
- 3) All the approved supervisors should entertain more and more research PhD students.
- 4) At least two workshops related with subject should be arranged in this session.
- 5) SIL (Sophisticated Instrumentation Laboratory) should be lifted on college website properly for awareness among all.
- 6) All faculty members seeking for PG teacher recognition approval should be done from college section.
- 7) All the necessary documentation should be done of Bridge courses (separate attendance for bridge course content test report)
- 8) All the faculty members should approach for research funded projects.
- 9) All the faculty members should go through the benchmark given by UGC for NAAC.
- 10) Teacher mentor should prevail student for enrolling different courses of the subjects. (NPTEL Swayam Udemmy).
- 11) Faculty members should also improve their academics by doing the Swayam, Udemmy courses.
- 12) Faculty members should arrange field work, internship for students.
- 13) Number of books in departmental library should be updated properly.
- 14) Faculty members should go for research papers publications, chapters in proceeding or books.

Shri Shriyaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Internal Quality Assurance Cell

NOTICE

Date: 15-03-2024


All the heads of department are requested to fill up the shared Internal Academic Audit blank proforma and keep it ready with supporting documents for the Internal Academic Audit Session 2022-23 Committee Visits on 19th and 21st March 2024. The preparedness checklist includes filling in the New Academic Audit Proforma with supporting documents, completing the Academic Diary of the Session 2022-2023, and ensuring the availability of Student's Attendance Registers/Sheets. It is also to be ensured that all faculty should be present at the time of visit. The schedule of the visit is as follows:


| Day I – Tuesday, 19th March 2024 | |
|--|------------------------------|
| Time | Department |
| 11.00 AM – 11.30 AM | Physics |
| 11.30 AM – 11.45 AM | Chemistry |
| 11.45 AM – 12.15 PM | Botany |
| 12.15 PM – 12.40 PM | Zoology |
| 12.40 PM – 01.05 PM | Computer Science |
| 01.05 PM – 01.20 PM | Mathematics |
| 01.20 PM – 01.35 PM | Language |
| Day II – Thursday, 21st March 2024 | |
| 09.00 AM – 09.30 AM | Geology |
| 09.30 AM – 10.00 AM | Microbiology & Biotechnology |
| 10.00 AM – 10.30 AM | Statistics |
| 10.30 AM – 11.00 AM | Electronics |

Audit Team:

1. Prof. M P Dhore
2. Prof. R N Deshmukh
3. Prof. S R Pande
4. Dr. A A Halder

Chairperson
Member
Member
IQAC Coordinator

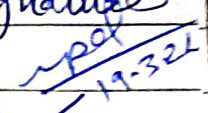
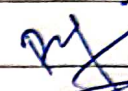


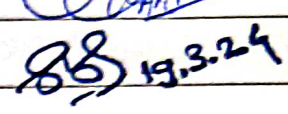

Dr A A Halder
Coordinator, IQAC
Science College,


Prof. M. P. Dhore
Principal
Science College,

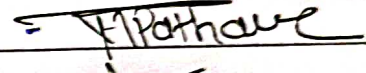
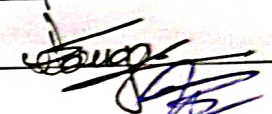
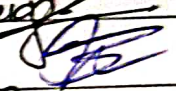


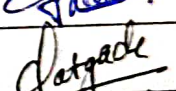



Following teachers attended the meeting (IQAC)
Tuesday, 19th March 2024 at 11:00 a.m. - 11:30 a.m.

Audit Team:

- | | | Signature |
|------------------------|-------------------|---|
| 1. Prof. M.P. Dhore | chairperson | -  19-3-24 |
| 2. Prof. R.N. Deshmukh | Member | -  |
| 3. Prof. S.R. Pande | Member | -  |
| 4. Dr. A.A. Halder | IQAC co-ordinator | -  |
| 5. Prof. S.W. Anwane | HOD. | -  19.3.24 |
| 6. | | |

Faculty Members:

- | | |
|----------------------------------|---|
| 6. Dr. (Mrs.) R.N. Pathare | -  |
| 7. Dr. (Miss) S.V. Khengar | -  |
| 8. Mr. B.T. Kumbhare | -  |
| 9. Dr. (Miss) S.K. Sayyad | -  |
| 10. Dr. G.L. Jadhav | -  |
| 11. Miss. Chanda P. Jotgade | -  |
| 12. Miss. Kanchan B. Jirnapurkar | -  |