



P.K.M. COLLEGE OF EDUCATION

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PROGRAMME PORTFOLIO

DEPARTMENT OF PHYSICAL SCIENCE 2014 - 15



Report of class activities

Batch: 2014-15

INITIATION OF CLASS

The new academic year of Physical Science B.ed 2014-2015 Batch at P K M college of Education commenced on 19/12/2014, Friday. Dr. Prasanth Mathew, Assistant Professor, Dept. of Physical science, P K M college of Education, officially welcomed the gathering.

The class started with prayer. After introduction, there was a discussion based on 'what is science and how to celebrate science'. The suggestions were either to make a science calendar or a science diary to understand important science days. Dr. Prasanth Mathew conducted a pre test to evaluate the students' understanding about these days.

To set up the general organized pattern, we selected Ashlin Raj as class representative and distributed the responsibilities to the following members.

- Computer – Salumol P
- Camera _ Akhila C.N
- Shelf _ Lijina K.V
- Laboratory _ Dilna K.O, Bijisha K.C
- Attendance _ Chithra K
- Class Log _ Femi Francis
- Notice board _ Shajina K
- Physical science corner _ Manuraj M
- Accounts & Finance _ Hansal Maria Tom
- Physica scientia leadership _ Shahana K

CONFERENCE ON '*celebrate science*'

After an elaborate discussion for days together we conducted a conference on 14/01/2015 in association with Physica scientia, The Physical science teachers' learning community on '*Celebrate science: Priorities and means*' which was held as part of a series of conferences on

"Cultivate Culture of Science". The conference was supplemented by programmes such as chart presentation and quiz competitions for others.

The themes presented in the conference were:

1. *'Celebrate science to cultivate culture of science'* :

Dr. Prasanth Mathew

Assistant professor

Dept. of Physical science, P K M college of Education.

2. *'Celebrate science : significance in present context'* : Preeja M .K

Member, Physica scientia.

3. *'Means to celebrate science'* :

Swathi A

Member, Physica scientia.

The conference was coordinated by Manuraj and Shahana k. of Physical Science. The major aim of the conference was to cultivate culture of science. For this we science teachers need to come up with new techniques. Here comes the importance of celebration. Celebrations impart vigour and vitality and the moment becomes memorable. If we celebrate science it will be a good start to cultivate culture of science.

Suggestions

➤ Patron scientist (My Birth mate)

The suggestion to celebrate our birthdays by commemorating the life of the corresponding scientist of the day was put forth in the conference. So the list of the scientist corresponding to the birthday of each student was found out and displayed in the classroom. As part of the celebration of our birthdays, each student studied about the scientist corresponding to the day which was presented in the class for the information of all.

➤ Initiation of science corner

Initiation of science corner was another suggestion that was put forth in the conference. To update our scientific knowledge a science corner was set up inside the classroom which displayed recent scientific trends and science news. The science corner was inaugurated by Dr. Prasanth Mathew on 16/01/2015

➤ Observance of scientific days of importance

It was also decided to observe scientific days of importance in the classroom. A science calendar which highlighted scientific days of observance was prepared and displayed in the class room.

➤ Anecdotes

Another important suggestion put forth in the conference was to prepare anecdotes relating to the lives of different scientists. Under the leadership of Miss Lijina K.V and Akhila C.N, a collection of anecdotes named '*Brainy mythos*' was prepared which comprises of the life history, important incidents, and thrilling stories of the lives of 35 scientists. Its main advantage is that it covers all the scientists included in the syllabus of upper primary to high school.

On completion of these works, a post test based on our knowledge of science days was conducted by Dr. Prasanth Mathew.

CONFERENCE ON '*Disseminate science*'

The next conference on '*Cultural Tools To Disseminate Science*', was held on 31/01/2015 as part of a series of conferences on '*Cultivate culture of science*'. The conference was also organized in association with Physica scientia. The conference aimed to explore tools adapted by research communities' practioners, the public and regulatory bodies to *disseminate science*. The conference was coordinated by Mr. Abin Thomas and Miss Babisha P.T. of Physical Science.

The main objectives were:

- To identify different sources available for publishing scientific ideas.
- To understand the norms and parameters in disseminating scientific knowledge.
- To identify different forms of scientific knowledge.
- To analyse the role of indigenous knowledge in disseminating science.

The keynote address was given by Dr. Prasanth Mathew which was followed by the theme presentations.

The main themes presented were

1. Sources Of Information

Mr. John P.T

Librarian, P K M College of education, Madampam

2. Scientific Knowledge: Norms And Parameters

Ms. Anu Baby

Member, Physica scientia

3. Indigenous Knowledge Of Science – Means To Disseminate Science.

Ms. Sinsha U.C

Member, Physica scientia

4. Forms Of Presenting Scientific Knowledge

Dr.Prasanth Mathew,

Assistant professor, Dept. of Physical science

P K M college of Education

After each session, the topics were discussed in detail.

An important suggestion put forward in the conference was to undertake the mission of scientific literacy.

Scientific literacy mission

It aims at understanding the nature of science. This project was coordinated by Veena K.P and Ashlin Raj. Under their leadership, questionnaires based on basic science to analyze the scientific literacy level of ordinary people were prepared.

The students of Physical Science were divided into four groups and made documents based on the four themes discussed in the conference.

The conference was made noticeable and worthy by the presence of our principal, Dr. Stephen T.A.

WORKSHOP ON ‘Concept Analysis’

In the classes that followed discussions on the nature and perspectives of science were held which enabled us to understand the

Three fold nature of science:

_ Science is a body of knowledge

_ Science is a way of investigation

_ Science is an attitude towards life

To make clarity in our comprehension on science we analyzed the basic concepts in science after which we conducted a one week workshop from 19/02/2015 – 25/02/2015 based on the theme ‘concept maps in science’. The programme was co-ordinated by Femi Francis and Dilna K.O.

We were divided into nine groups to analyze different scientific concepts and to present the concept maps. Based on this we published a book: ‘**Concept Maps in Science**’ on 09/06/2015. The book covers all relevant concepts in science; explores their relation with other areas by concept maps and also gives the definition or a brief description of each term present in it.

FORMAL SESSIONS – Microteaching, Discussion, Demonstration, Criticism classes

We discussed about science education. We analyzed different educational - psychological theories and discussed about ways to implement constructivism in classrooms. The microteaching sessions were conducted on 07/03/2015.

Demonstration and criticism classes were held from 09/03/2015 to 18/03/2015 in our model school, Maryland High School, Madampam.

The demonstration classes were presented by

1. Mr. Tinto Thomas
(Physical science teacher, Marygiri senior secondary school, Podikkalam)
2. Mr. Akarsh E
(Former student, P K M college 2013-14 batch)
3. Mr. Venugopal
(Retd. H M, Tagore vidhya nikethan, Thalipparamba)
4. Mr. Manoj Irikkur
(Physical science teacher, higher secondary school, Irikkur)
5. Mr. Manoj Kannadipparamba (Physical science teacher, Marygiri senior secondary school, Kannadipparamba)

Each class gave different views in science education. After each session there was a detailed interaction with the resource persons. On the light of this, we prepared lesson plans and implemented it in classes 8,9,10.

WORKSHOP ON '*constructivism*'

A workshop on '*social constructivist design of learning*' was conducted on 12/03/2015.

Constructivism focuses on knowledge Construction. Learning is an active process in which the learner constructs new ideas or concepts based on their current and past knowledge and social context. There is also a possibility to construct knowledge through interaction with others. Thus, knowledge is constructed by the interaction with society which gives rise to social constructivism. Social constructivism emphasises on collaborative learning in cultural and social context.

Mr. Manoj Kannadipparamba, the resource person, taught us how to implement constructivism in classroom from his teaching experiences. He introduced the role of teacher in the constructivist classroom and importance of social constructivism in cultural and social context. Miss Veena K.P and Miss Ramya S were the coordinators of the workshop.

LAUNCHING OF SENSITIVITY DOMAIN

A classroom based research project 2014-2015 - *Sensitivity Domain for Sensitized Learning of Science* was launched on 13/03/2015. Mr. Akarsh E was the invited guest. Dr. Prasanth Mathew introduced the sensitivity domain. The coordinators were Ashlin Raj and Femi Francis.

In this world of modernity we have lost the heavenly gift of being sensitive. We never realize what is happening around us. Science has easily understood the issues of the world and education has a great opportunity to disseminate the gravity of the affairs to others. While clubbing the two, there is a large domain of meaningful sensitization. There will be the rise of scientific sensitivity. Scientific sensitivity is a disposition to think critically and act responsibly in relation to the ways in which science affects people's lives.

Objectives

- Realizing the interconnectedness between nature and man established by the divine hand creation

- Developing scientific sensitivity in the learner.
- Creating responsiveness to nature in the learner.

Students were grouped into nine teams with two members each, under the guidance of Miss Ashlin Raj and Miss Femi Francis and presented a theme for sensitization.

Each team gave a brief introduction about their theme.

The themes were:

1. Global warming (Veena K.P and Ramya S)
2. E-waste (Manuraj M and Abin Thomas)
3. Water pollution (Salumol P and Sreelaya C.K)
4. Electricity (Dilna K.O and Bijisha K.C)
5. Radiation (Ashlin Raj and Hansal Maria Tom)
6. Soil pollution (Akhila C.N and Shuhaima P.V)
7. Nuclear waste (Shahana K and Femi Francis)
8. Air pollution (Chithra K and Shajina K)
9. Plastics (Babisha P.T and Lijina K.V)

We analyzed the direct and indirect; useful and harmful effect of each issue and discussed how to sensitize students to each issue through the teaching learning process.

FIELDTRIP

On 21/03/2015 we conducted a fieldtrip to Calicut. The coordinators were Miss Shajina K and Miss Chithra K. The chief targets were Regional Science Centre and Planetarium. We reached the Regional Science Centre at 10'o clock, and made use of the time with the wonders awaiting there. We visited the Planetarium next. The trip was again boosted with our visit to Kappad beach, Sarovaram Biopark, Baypore port and beach, Calicut beach, Mahe church, Edumart etc. The Boat journey at Sarovaram was really awesome. We really enjoyed the whole day. Evaluation and feedback also were taken.

WORKSHOP 'to familiarize *new syllabus in secondary school*'

P K M College of Education conducted a workshop to familiarize the new textbooks and syllabus on 23/03/2015. After the general session, we gathered in our Physical science classroom for a supplementary session by Mr. Pradeep. He explained in detail about the changes in the new

text books, syllabus and thereby the corresponding changes needed in lesson plans. This was a very useful interaction session.

VACCAATION

Our vacation started on 31/03/2015. During vacation we were engaged with different works such as preparation of models, scientific video clips collection, specimen collection, science album, class reports etc.

RE-OPENING

After re-opening we discussed about different models of teaching and wrote lesson plans based on them.

CONFERENCE ON '*Methods of teaching*'

A conference on 'Methods of teaching physical science was held on 10/06/2015 – 11/06/2015. The Coordinators were Miss Sreelaya C.K and Miss Salumol P.

AIM

The aim of the conference was to introduce and familiarize the student teachers with different methods of teaching Physical science and to motivate them to apply these methods for improving the teaching learning process.

There were nine teams with two members each. Each team presented a method.

The methods presented were

- | | |
|-----------------------------------|---------------------------|
| ▲ Problem solving method | _ Veena K.P, Abin Thomas |
| ▲ Inductive and deductive methods | _ Salumol P, Ashlin Raj |
| ▲ Heuristic method | _ Ramya S, Femi Francis |
| ▲ Project method | _ Bijisha K.C, Lijina K.V |
| ▲ Historical method | _ Babisha P.T, Dilna K.O |
| ▲ Lecture method | _ Chithra K, Shuhaima P.V |
| ▲ Cooperative learning | _ Hansal Maria, Sreelaya |
| ▲ Group discussion | _ Shahana K, Shajina K |
| ▲ Seminar | _ Manuraj, Akhila C.N |

A report which included the details of these methods was also made.

PRACTICE TEACHING

On subsequent days we analyzed the science topics of classes VIII and IX as a preparation for practice teaching. We also discussed about construction and implementation of achievement tests.

Our practice teaching started on 24/06/2015. The schools allotted for us were

1. Maryland High School, Madampam
2. Govt. High Secondary School, Sreekandapuram
3. Govt. High School, Nedungomm
4. St.George High School, Chempanthotty
5. Sacred Heart High Secondary School, Payyavoor
6. Govt. High Secondary School, Irikkur
7. Govt. High School, Malapattam
8. K P C High Secondary School, Pattanoor

Two or three trainees were accommodated in each school. We collected our respective topics from the assigned school on 10/06/2015.

Dr. Prasanth Mathew gave the necessary instruction for the practice. Thus we started our practice teaching in the concerned schools. This period was the moulding phase of our teaching career. Dr. Prasanth Mathew inspected and critically analyzed our performance.

In between, we gathered and shared our experiences with each other which helped us to improve ourselves and to make necessary modifications. The practice teaching winded up and we returned to our college on 15/08/2015.

CONFERENCE ON '*Graphic Organizers*'

A conference based on '*Graphic Organizers - Tool for meaningful learning of science*' was conducted by the Dept. of Physical science on 19/09/2015 at PKM College of Education auditorium in collaboration with Physica scientia. The student teachers of both 2014-15 and 2015-17 batch took part in the conference. Our college Principal Dr. Stephen T.A inaugurated the function and Dr. Prasanth Mathew, Assistant Professor of Physical science department

delivered the keynote address. Ms. Haseena T.S, Member of Physica scientia acted as a resource person. She was awarded for securing more than 60% marks in all five papers in the B.Ed Examination. The book titled “Graphic organizers for processing scientific knowledge” was released by the Principal which was handed over to Dr. Prasanth Mathew. Dr. Rekha K.R, Assistant Professor of English department and Sr. Athulya, Assistant Professor of Natural science department delivered the felicitation. Ms. Suranya and Ms. Suja, the members of Physica scientia were also present as resource persons.

We invited nine neighbouring colleges and informed the public through news papers and radio stations. The coordinators were Akhila C.N, Shuhaima P.V, Wilson Francis and Praveenamol.

Graphic organizers are instruments of representation, illustration and modeling of information in visual or graphic forms that are used for meaningful learning. They are sets of learning strategies which involve translating words expressed in linear form into visual structures. Graphic organizers function as means for clarifying and organizing knowledge and reasoning; identifying conceptual errors; strengthening the learning process and integrating new knowledge in the prior knowledge system, leading to a superior learning process.

Dr. Prasanth Mathew presented the theme paper ‘Graphic Organizers - Tool for meaningful learning of science’. He stated that graphic organizers provide templates

- To identify pertinent facts, concepts
- To organize information
- To standardize information
- To relate information

The entire graphic organizers to be presented were classified into five groups.

- ❖ Cyclic organizers: Multifarious aspects
- ❖ Conceptual organizers: for comprehensive analysis
- ❖ Sequential organizers: serial representations of data
- ❖ Hierarchical organizers: classified disciplines
- ❖ Analytical organizers: based on the observations made

Presentations were made by Veena K.P, Femi Francis, Meera K.C, Shahana K, Liya T Jose, Sreelaya C.K, Manuraj M, and Athira N. The Presentations were followed by an open discussion. The main outcome of the presentation was the emerging of the idea of designing graphic organizers related to nature and everyday life.

In the afternoon session, eleven groups were formed among 35 participants and each group created their own graphic organizers based on a particular topic. The newly designed graphic organizers were displayed on 22/09/2015 in the Physical science department.

The outcomes of the conference were:

Launching of a project for the redesigning of textbooks in the school curriculum using graphic organizers

Equipping ourselves to design graphic organizers, preferably natural designs for effective teaching learning process.

Our Principal Dr. Stephen T.A also actively participated in the conference and appreciated our efforts. The proceedings of the conference were published on 23/09/2015.

After each conference, all the participants were awarded with certificates and the proceedings of the conference were published.

MAGAZINE

We proudly published a magazine titled ' $E=mc^2$ '. It was dedicated to Albert Einstein in memory of the 110th anniversary of "Miracle year of papers" (1905- Einstein proposed the theories- photo electric effect, Brownian motion and special relativity) and also to Dr.A P J Abdul Kalam, "the Missile man and people's President of India", who expired on 27/07/2015. The magazine was an outcome of our hardened effort under the guidance of chief editors Veena K.P and Shajina K. The magazine comprises of:

- ★ Articles about Albert Einstein and his theories
- ★ Interesting stories of some scientists
- ★ Recent scientific knowledge
- ★ Thrilling science experiments
- ★ Science games

PRACTICAL EXAMINATION

Our next target was to prepare well for our practical examination. We prepared and submitted all necessary documents which were certified by our respective teacher. The Model examinations were held on 14/09/2015 and 15/09/2015

Our practical examination was scheduled on 28/09/2015 and 29/09/2015. Five out of eighteen student teachers were selected for teaching Physical science for VIIth and IXth standard. Four of us were selected for teaching physical education and health education. Five were selected for practical examination on modern trends and technology. The remaining two student teachers prepared for chairman viva.

The Examinations went on well. All student teachers performed their best in the practical examination.

THEORY EXAMINATIONS

After our practical examinations we discussed about the remaining topics in our syllabus. We analyzed and solved the previous question papers of paper IV AND V, and made answer banks. We shared the answers banks with others which helped us a lot to prepare well for theory examinations.

Our theory examinations started on 23/11/2015. On 02/12/2015, the last day of our examination, we joined together and selected Shahana K and Manuraj M as executive members of Physica scientia from our batch. After few entertainment programmes we returned home with wishes and prayers for others. We took an oath to keep a warm friendship with others and to be a lifelong active member of Physica scientia.

THANKS

We the 2014-2015 batch of Physical science in P K M College of Education celebrate science through our life. We are extremely thankful to our mentor Dr. Prasanth Mathew, who helped us a lot to explore new wonders in science education; our beloved Principal, Dr. Stephen T.A, all other respected faculties, office staffs and dear friends.

Once again we express our sincere gratitude to one and all.

To add _____

Self exposition Programme

One day workshop on research methodology by TRIUMVIRATE

DATE	EVENTS
19/12/2014	DISCUSS: • HOW TO CELEBRATE SCIENCE ? • WHAT IS SCIENCE? DECIDED: • MAKE' SCIENCE CALANDER'
30/12/2014	• CONDUTED A PRETEST BASED ON THE IMPORTANT SCIENCE DAYS
5/1/2015	DISCUSS: • WHY SHOULD CELEBRATE SCIENCE? • HOW TO CELEBRATE SCIENCE ?
7/1/2015	DICIDED: • TO CONDUCTED A PROGRAM " TO CELEBRATE SCIENCE" ON 14TH JANUVARY 2015 DISCUSSED : • SELF EXPOSITION DAY
13/1/2015	PREPARE: • PROGRAMME SCHEDUL OF 'CELEBRATE SCIENCE'

14/1/2015	PROGRAMME: • CONFERENCE “CELEBRATE SCIENCE : PRIORITIOEN AND MEANS CULTIVATE CULTURE OF SCIENCE”
15/1/2015	DISCUSSED : • COLLABRATIVE LEARNING • CO-OPERATIVE LEARNING CREATE DOCUMENT ON : • PRIORITION IN SCIENCE DAYS TO CELEBRATE • MEAN TO CELEBRATE
16/1/2015	DISTRIBUTE THE CLASS DUTIES
19/1/2015	DISCUSSED : • SCIENCE ITS NATURE & PERSEPECTIVE • FIELD TRIP
20/1/2015	DISCUSSED : • BIO-DATA DICIDED: • MAKE SCIENCE CORNER
21/1/2015	DISCUSSED : • SOMETHING TO BE SCIENCE

	• SCIENCING CYCLE • THINGS & EVENTS
22/1/2015	DISCUSSED : • SCIENTIFIC FACTS • INDUCTIVE & DEDUCTIVE METHOD • SCIENTIFIC PRINCIPLES, THEORIES & LAWE
23/1/2015	DISCUSSED : • TECHINICAL & LOGICAL ASPECTS
28/1/2015	DISCUSSED : • SCIENCE ITS NATURE & PERSPECTIVES
29/1/2015	DICIDED: • TO CONDUCTED A PROGRAM “ CULTURAL TOOLS FOR DISSEMINATE SCIENCE” ON 31TH JANUVARY 2015 • TO MAKE A BOOK BASED IN ANECDOT OF SCIENTIST IN PHYSICAL SCIENCE

30/1/2015	PREPARE: • PROGRAMME SCHEDULE OF 'CULTURAL TOOLS FOR DISSEMINATE SCIENCE'
31/1/2015	PROGRAMME: • CONFERENCE ""

FEBRUARY

9/2/2015	DISCUSSED : • THE BEB RESULT OF VARIOUS COLLEGES • THREE FOLD NATURE OF SCIENCE
11/2/2015	PLANNING OF "SCIENCE DAY" CELEBRATIONS
12/2/2015	DISCUSSED : • PEDAGOGIC ANALYSIS OF PHYSICAL SCIENCE • CURRICULUM TRANSACTION PROCESS
13/2/2015	DISCUSSED : • PROCESS OF SCIENCE SKILLS
16/2/2015	DISCUSSED : • CONCEPT MAP
18/2/2015	DISCUSSED : • CONCEPT MAP IN PEER GROUP
19/2/2015-21/2/2015	PRESENTATION: • CONCEPT MAP
25/2/2015	DISCUSSED : • SCIENCE DAY CELEBRATION ON 28/2/2015
28/2/2015	CELEBRATE : • BIRTH DAY (HANSAL & SREELAYA) DISCUSSED : • PSYCHOLOGY TOPICS BEHAVIOURISM, CONSTRUCTIVISM

MARCH

2/3/2015	DISCUSSED : • DEMONSTRATION-CRITICISM CLASSES • STRUCTURE OF LESSON PLAN
4/3/2015	DISCUSSED : • LESSON PLAN ANALYSIS • CRITICISM CLASSES • JESTALT THEORY
5/3/2015	DISCUSSED : • LESSON PLAN ANALYSIS
7/3/2015	MICRO TEACHING PRACTICE
9/3/2015	• DEMONSTRATION-CRITICISM CLASSES-AT MATAMBAM MARYLAND HIGH SCHOOL
10/3/2015	• DEMONSTRATION-CRITICISM CLASSES
11/3/2015	• DEMONSTRATION-CRITICISM CLASSES • CLASS ROOM BASED RESERCH PROJECT STARTED-“SENSITIVITY DOMAIN FOR SNSITISED LEARNING OF SCIENCE”

12/3/2015	• DEMONSTRATION-CRITICISM CLASSES • CONFERENCE “SOCIAL CONSTRUCTIVIST DESIGN OF LEARNING” ➤ CLASSROOM CONSTRUCTIVISM ➤ USE OF TECHNOLOGIES
13/3/2015	• DEMONSTRATION-CRITICISM CLASSES • LAUNCHING SESSION OF CLASSROOM BASED RESEARCH PROJECT DISCUSSED : • SENSITIVITY
16/3/2015	DEMONSTRATION-CRITICISM CLASSES DISCUSSED : • TYPES OF PRESENTATION
17/3/2015	• DEMONSTRATION-CRITICISM CLASSES
18/3/2015	DEMONSTRATION-CRITICISM CLASSES DISCUSSED : • FIELD TRIP
19/3/2015	DEMONSTRATION-CRITICISM CLASSES DISCUSSED : • FIELD TRIP
20/3/2015	DISCUSSED : • WORKS TO BE DONE DURING SUMMER VECATION • LAB REGISTERS

	• FIELD TRIP • DISCUSSION LESSON PLAN
21/3/2015	PROGRAMME: • FIELD TRIP TO KOZHIKODE
23/3/2015	PROGRAMME: • WORK SHOP ABOUT NEW TEXTBOOK(8th) DISCUSSED : • PHYSICS,CHEMISTRY TEXT BOOK • NEW TYPE LESSON PLAN
24/3/2015	DISCUSSED : • CRITICAL REASONING • INSTRUCTIONAL OBJECTIVES
25/3/2015	DISCUSSED : • TEACHING PRACTICE • SCHOOL ALLOTMENT

JUNE

8/6/2015	DISCUSSED : • MODELS OF TEACHING
9/6/2015	DISCUSSED : • FAMILIES OF MODELS OF TEACHING • ELEMENTS OF A MODEL
10/6/2015	CONFERENCE"METHODS OF TEACHING

	IN PHYSICAL SCIENCE”
11/6/2015	CONFERENCE-CONTINUATION
15/6/2015	TEXT BOOK ANALYSIS
16/6/2015	DISCUSSED : • UNIT PLAN • ACHIEVEMENT TEST • BIRTH DAY CELEBRATION
17/6/2015	DISCUSSED : • BLUE PRINT • TEACHING PRACTICE
22/6/2015	DISCUSSED : • TEACHING PRACTICE • TEACHING MODELS
23/6/2015	ANSWER PAPER EVALUATION

AUGUST

17/8/2015	DISCUSSED : • PRACTICE TEACHING EXPRIENCES
18/8/2015	DISCUSSED : • OPTIONAL VIVA • PRACTICAL EXAM • RECORD CERTIFICATION
19/8/2015	DISCUSSED : • RECORDS TO BE SUBMITTED

20/8/2015	DISCUSSED : • SYLLABUS
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SEPTEMBER

3/9/2015	RECORD CERTIFICATION DISCUSSED : • PREVIOUS YEAR'S QUESTION PAPER (PAPER 4)
4/9/2015	DISCUSSED : PREVIOUS YEAR'S QUESTION PAPER (PAPER 4)
7/9/2015	RECORD CERTIFICATION DISCUSSED : • PREVIOUS YEAR'S QUESTION PAPER (PAPER 4) • CO OPERATIVE LEARNING
8/9/2015	DISCUSSED : QUESTION PAPER (PAPER 4-2013)
11/9/2015	CERTIFICATION OF TEACHING AIDS



**DEPARTMENT OF PHYSICAL SCIENCE
2014-15 BATCH**