



राष्ट्रीय माध्यमिक शिक्षा अभियान (RMSA)  
कार्यालय जिला शिक्षा अधिकारी, उज्जैन

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क्र/आरएमएसए/2018/475

उज्जैन, दिनांक:- 20.06.2018

प्रति,

प्राचार्य  
शासकीय उ.मा.वि.  
संलग्न सूची अनुसार

विषय:- विज्ञान शिक्षक कार्यशाला में उपस्थित होने विषयक।

—00—

विषयान्तर्गत शास.माधव साइंस कॉलेज द्वारा विज्ञान शिक्षक प्रशिक्षण कार्यक्रम पर एक कार्यशाला का आयोजन किया जा रहा है, अतः संलग्न सूची अनुसार नामांकित शिक्षक को निम्नांकित दिनांक एवं स्थान पर भेजना सुनिश्चित करें।


दिनांक : 25 एवं 26 जून 2018.06.20  
स्थान : कानफ्रेस हॉल, डॉ.कलाम मेमोरियल पी.जी. केमेस्ट्री ब्लॉक  
स्मय : प्रातः 10.30 से सांय 05.30


संलग्न:- 1 सहभागिता करने वाले शिक्षकों की सूची।  
2 प्राचार्य, शासकीय माधव साइंस कॉलेज का पत्र।

पृ.क्र./आरएमएसए/2018/476

प्रतिलिपि:-

1. प्राचार्य, शास. माधव साइंस कॉलेज उज्जैन की ओर सूचना एवं आवश्येक कार्यवाही है।

  
जिला शिक्षा अधिकारी  
एवं पदेन जिला परियोजना समन्वयक  
आरएमएसए, उज्जैन  
उज्जैन, दिनांक:-20.06.2018

  
जिला शिक्षा अधिकारी  
एवं पदेन जिला परियोजना समन्वयक  
आरएमएसए, उज्जैन

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## जिला शिक्षा अधिकारी कार्यालय, जिला उज्जैन

शिक्षक प्रशिक्षण कार्यशाला में उपस्थिति हेतु शिक्षको की सूची

क्रमांक	नाम	पद	संस्था का नाम
1	अमृता शर्मा	व्याख्याता	शा. उमावि जिवाजीगंज
2	हेमा किशोर चंदन	व्याख्याता	शा. उमावि दौलतगंज
3	सुनिता जोशी	वरिष्ठ अध्यापक	शा. उमावि दौलतगंज
4	कल्पना राठौर	व्याख्याता	शा. उमावि जालसेवा निकेतन
5	महेश कुमार त्रिवेदी	व्याख्याता	शा. उमावि माधवगंज
6	राकेश शर्मा	व्याख्याता	शा. उमावि महाराजवाडा नं. 02
7	साधना सिन्हा	व्याख्याता	शा. उमावि महाराजवाडा नं. 02
8	योगेन्द्र कोठारी	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
9	ब्रजेश शर्मा	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
10	कुलदीप चौहान	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
11	राजश्री चौधरी	व्याख्याता	शा. कउमावि दशहरा मैदान
12	संध्या माहेश्वरी	व्याख्याता	शा. कउमावि धानमंडी
13	सरिता सोलंकी	व्याख्याता	शा. उमावि क्षीरसागर
14	रविन्द्र स्वर्णकार	व्याख्याता	शा. कउमावि सराफा
15	लालिमा परसाई	व्याख्याता	शा. कउमावि सराफा
16	कृतिका मनोज पराडकर	व्याख्याता	शा. उमावि विजयाराजे
17	निहारिका मित्तल	व्याख्याता	शा. उमावि विजयाराजे
18	सिविका गुप्ता	व्याख्याता	शा. उमावि मॉडल स्कूल
19	सुषमा शर्मा	वरिष्ठ अध्यापक	शा. उमावि मॉडल स्कूल
20	महेश सिंह गोलिया	व्याख्याता	शा. उमावि विजयाराजे

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**GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN**  
DST-FIST COLLEGE, A GRADE ACCREDITED THROUGH NAAC

**A workshop on**  
**Y .H. Science Teacher's Inspirational Training Program -**  
**An Active learning of Science by Royal Society of Chemistry**

**Organized By**  
**PG Department of Chemistry & Pharmaceutical Chemistry**  
**In collaboration with**  
**Association of Chemistry Teachers**  
**c/o Homi Bhabha Center for Science Education (TIFR), Mumbai**

**25<sup>th</sup> and 26<sup>th</sup> June 2018**

To  
Principal  
School of Excellence

Dear Sir *njn*

This is to request you to appoint an active science teacher/chemistry teacher of your school for a two days workshop on "Y .H. Science Teacher's Inspirational Training Program - an Active learning of Science by Royal Society of Chemistry."

The resource persons will be

1. Ms Jaya Swaminathan, Bangalore
2. Dr V P Singh, Professor & Head, Department of Science, RIE, Ajmer

Kindly send the duly filled registration form by 22<sup>nd</sup> June in the department of Chemistry. There is no registration fee for this workshop.

Participation will be on first come - first serve basis.

**Venue:** Conference Hall, Dr Kalam Memorial PG Chemistry Block

**Time:** 10.30 am to 5.30 pm ( Both the days )

**Break :** 1.00 pm to 1.45 pm

*Brijesh Pare*  
**Dr Brijesh Pare**  
Vice President ACT

*Ajay*  
**Dr Ajay Chaturvedi**  
Head, Chemistry

*Arpan*  
**Dr Arpan Bhardwaj**  
Principal

# RSC Professional Development Program for Science Teachers at School Level

Greetings from Royal Society of Chemistry.

We are world's leading chemistry community, advancing excellence in the chemical sciences. A not-for-profit organization based in UK with a heritage that spans 175 years, we undertake many education projects across the globe including India, where-in we do a largescale science empowerment project in India under the banner of Yusuf Hamied Inspirational Chemistry Programme, envisioning to enhance the skills and knowledge of Indian chemistry teachers as well as inspire school students to study chemistry at university.

## Training Objective

The aim of the Yusuf Hamied Teacher Development programme is to give teachers new tools for delivering, engaging and effective chemistry lessons. Teachers are introduced to proven active learning techniques that can be applied easily in a chemistry context, helping students develop their knowledge and enthusiasm for chemistry. They will practice using these techniques in their lessons plans.

Teachers also explore some key science topics in depth, learning about the misconceptions students may hold and how they can be tackled in the classroom. Finally, teachers get the opportunity to try some practical chemistry experiments which can be adapted to be used in any settings, including those with no traditional laboratory facilities.

## Training Methodology

The Yusuf Hamied programme gives teachers the opportunity to experience effective active learning techniques as a learner, and then to explore them in more detail as a teacher. This experience gives teachers a much deeper understanding of the benefits and drawbacks of each technique used. Throughout the programme we use an active, hands-on approach, encouraging teachers to take part in activities and experiments, work together in groups on a range of tasks and discuss their views and experiences with other teachers and their Teacher Developer.

There needs to be at least two weeks of gap between each of these workshops(if possible). This is to give ample opportunity for the teachers to practise what they have learned from each workshop in their regular classroom teaching and then come up with any clarification in the subsequent workshops.

## Training Modules

The training consists of three workshops. These should be delivered at least one week apart in order to allow teachers to practice some of the techniques in their own teaching and provided feedback during the next workshop. The three workshops are:

- **Moving towards active learning (Workshop 1: 4 hours)**  
Teachers are introduced to the idea of active learning, and try out some new techniques which they can implement in their classrooms. They also get experience of planning a lesson based around active learning techniques
- **Chemical reactions and equations (Workshop 2: 3 hours)**

This workshop focuses on a key theme that underpins chemistry: reactions and equations. Techniques are introduced to increase students' confidence when dealing with reactions and equations, helping them make better progress in chemistry.

- **The particle nature of matter (Workshop 3: 3 hours)**

This workshop tackles a subject that many students find difficult – the abstract idea of the particle nature of matter. We discuss common student misconceptions and how they can be overcome, and introduce some new active learning techniques for teachers to try out.

### **Training Outcome**

By the end of the three workshops, teachers should be able to:

- Extend their repertoire of teaching techniques;
- Evaluate the usefulness of definitions in science;
- Plan a lesson using active learning strategies;
- Access, with confidence, resources on the Royal Society of Chemistry website
- Make increasing use of group work in chemistry lessons;
- Explore the ideas behind students' understanding of chemical reactions;
- Explore the use of resources to help students write word equations, formulae and chemical equations
- Appreciate the common misconceptions and difficulties students experience understanding the particle nature of matter;
- Use diagnostic questions to challenge common misconceptions;
- Use a range of active learning techniques to teach about the particle nature of matter

### **Date for training:**

25<sup>th</sup> and 26<sup>th</sup> June 2018.

### **Who can attend:**

Though this training is aimed Science Teachers at High School level, any teacher of science at any level are welcome to attend this programme. The active teaching techniques we propose could be applied not just in Science teaching, but also for any subjects.

### **Duration:**

Training programme is for two days and will span around 12 hours on both the days combined.

### **Fee for the training programme:**

The programme is fully funded by RSC and Dr Yusuf Hamied and hence RSC does not collect any fee from the school or teachers who attend this programme.

# **GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN**

**DST-FIST COLLEGE, A GRADE ACCREDITED THROUGH NAAC  
Department of Chemistry & Pharmaceutical Chemistry**



## **A workshop on Active learning of Science by Royal Society of Chemistry Y .H. Science Teacher's Inspirational Training Program**

**In collaboration with  
Association of Chemistry Teachers  
c/o Homi Bhabha Center for Science Education (TIFR), Mumbai**

**25<sup>th</sup> and 26<sup>th</sup> June 2018**

### **CONCEPT NOTE**

Teaching has become a profession which needs passion more than any other profession. A good teacher updated with teaching tools can develop young creative minds into excellent researchers and learners. There is a need to bring about a change in quality of teaching, moving away from the current format of rote learning. Teaching should be student centric to develop their knowledge and understanding, using newer concepts and tools based on constructivist pedagogy.

Dr Yusuf Hamied's Teacher development programme aims at giving teachers new tools for delivering engaging and effective science lessons. The teacher developers introduce teachers to active learning techniques that can be applied easily in Science context, helping students develop their knowledge and enthusiasm for Science. Royal Society of Chemistry are managing this programme in collaboration with the UK's Salters' Institute and leading Indian academic institutes.

Department of Chemistry intends to organize one such RSC'S Yusuf Hameid Scienc teachers inspirational training program on 25<sup>th</sup> and 26<sup>th</sup> of June 2018.

## **Who Can Participate:**

School Teachers of Govt. and Private schools (who are teaching High School and senior secondary level classes of science.)

Total number of participants: 35

## **Mode of Delivery:**

Lecture mode

Interactive activity based sessions

## **Out come:**

- School teachers will be inspired to inculcate the learning tools into their classes, turning their classes into activity labs
- The Teacher's approach and focus will shift from teacher centric to student centric approaches the activities have been developed accordingly.





