



# RAO PAHLAD SINGH DEGREE COLLEGE

(Approved by DGHE / Govt. of Haryana & Affiliated to Indira Gandhi University, Meerpur)

Satnali Road Balana, Mohindergarh Haryana-123029

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Date: 13-06-2022

## NOTICE

Internal Quality Assurance Cell (IQAC) will have a general meeting on June 30, 2022 at 2:00 p.m. in the principal's office of RPS Degree College, Balana, Mahendergarh. Therefore, all the eminent IQAC members are hereby requested to attend the meeting. The following items will be on the agenda:

1. Action taken regarding 8<sup>th</sup> IQAC meeting held on 29-03-2022.
2. Detailed report regarding the academic session 2021-22 and quality initiatives for the academic session 2022-23.
3. Any other point that required to be discussed.

  
13/06/22  
(Dr. Davender Singh) Principal  
Degree College  
Balana (M. Garh)

Principal

A copy of the above is forwarded to followings:

1. Chairperson, RPS Group
2. Director, RPSGOI
3. Registrar, RPSGOI
4. Dean Academic Affairs
5. Head of the Departments
6. All Committee Members



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Date: 01 July 2022

## Minutes of 9<sup>th</sup> Meeting of the IQAC

Meeting of Internal Quality Assurance Cell (IQAC) was held on 30-06-2022 at 02:00 p.m. in the office of Principal, RPS Degree College, Balana, Mahendergarh. During the Meeting following members were present.

### **Chairperson: Head of the Institution**

1. Dr. Davender Singh, Principal

### **Teachers to Represent All Levels**

1. Dr. D.R. Bhardwaj, HOD Life Sciences
2. Dr. Jitender Jindal, HOD Chemistry
3. Ms. Archana Sahoo – HOD Physics
4. Dr. Rajesh Kumar – HOD Humanities
5. Dr. Hemant Kumar – HOD Geography
6. Sh. Mohit Sethia – HOD Commerce
7. Sh. Hansraj, Asst. Prof. Mathematics
8. Dr. Vikas Sangwan, Asst. Prof. Chemistry
9. Dr. Jitendra Gangwar, Asst. Prof. Physics
10. Dr. Kavita Chauhan, Asst. Prof. Physics
11. Dr. Manjeet, Asst. Prof. Mathematics

### **Member from Management**

1. Dr. Pavitra Rao, Chairperson, RPS Group

### **Senior Administrative Officer**

1. Dr. Devender S Yadav, Registrar
2. Sh. Ramavtar, Sr. Accounts Officer

### **Nominee from Local Society/Trust**

1. Sh. Narender Kumar, Chairman Jeevan Jyoti School

### **Student Nominee**

1. Harsh Yadav s/o Sh. Hawa Singh (20HP03)

### **Alumni Nominee**

1. Rinku d/o Sh. Ashok Kumar (18M101)

### **Nominee from Employers/Industry/Stakeholders**

1. Dr. Mahesh Kumar Yadav, Director RPSGOI

### **Coordinator of IQAC:**

1. Dr. Yashpal Sharma, Dean Academic Affairs

## Action Taken Report w.r.t. 8<sup>th</sup> IQAC Meeting

1. Dr. Davender Singh, Principal informed the members that proper communication has been made with controller of examination and other senior officials of the University. They assured that from next semester onwards the level of question papers will be as per standard norms. They also told that result declaration is in process and DMCs and Degrees of first batch (17-20 and 17-19) will be dispatched soon.
2. File for approval of new courses (B.Sc. Hons Botany and Zoology and increased intake in B.A.) has been processed in university and the inspection team will visit the college campus very soon.
3. Learning objectives and outcome of some of the courses has been updated and same was also uploaded on college website as informed by Dr. Yashpal Sharma, Dean Academics.
4. New Memorandum of Understanding (MOU) was signed with International Institute of Geospatial Science and Technology (Specifically for Degree College), Saylor Academy (RPSGOI) and with Indian Block Chain Alliance, IBA/TPCRA World.
5. Dr. Jitender Jindal Head of the Department Chemistry told the members that a student of M.Sc. Chemistry, Ms. Simran Jangal has been selected for internship programme at IIT Gandhinagar under the scheme SRIP 2022. Similarly, Tamanna also selected to work as internship fellow at INMAS DRDO New Delhi.
6. Dr. Rajesh Kumar informed that NSS unit of the college organized seven-day camp from 4<sup>th</sup> April 2022 to 11<sup>th</sup> April 2022 in nearby village Dhadhot. Various activities related social upliftment were carried out in the camp. More similar programmes will be also be organized in future. Madhuasha, one of our NCC cadet got first position in Debate held in ATC-171 at Govt PG College Mahendergarh as informed by ANO, Sh. Sushil Kumar.
7. Dean Academic Affairs informed all the members about successful completion of the even semester for the academic session 2021-22.
8. Following academic and other activities were organized during the even semester of academic session 2021-22. The detailed report of which was reviewed by the committee members.

Sr. No.	Activity	Department	Date
1.	Hawan and Saraswati Pooja	Chemistry	02-04-2022
2.	Abhivyakti 2022: Poster Making	Chemistry	13-05-2022
3.	Cultural Festival "CHEM FEST"	Chemistry	04-06-2022
4.	Educational tour to PU, Chandigarh	Chemistry	10 to 13-06-22
5.	Expert Talk on New Financial Year	Commerce & IQAC	01-04-2022
6.	Expert Lecture on Financial Literacy	Commerce & IQAC	04-04-2022
7.	Stress Management and Decision Making	Commerce & IQAC	12-04-2022
8.	Industrial Visit to Vishwas Overseas Ltd., Ambala	Commerce	27 to 30-05-22
9.	Debate Competition on the occasion of world of bio diversity day	Geography	23-05-2022

10.	Yoga competition	Geography	21-06-2022
11.	Painting Competition on Saving Environment	Humanities & NSS	27-05-2022
12.	Educational Trip to Pilani	Humanities & NSS	15-06-2022
13.	International Yoga Day	Humanities	21-06-2022
14.	Two-day educational trip to Forest Research Institute Dehradun	Life Sciences	10 to 11 June 22
15.	Educational trip to IIT Roorkee	Mathematics	10 to 12-06-22
16.	Expert Talk on Career Opportunities in Statistics	Mathematics	30-06-2022
17.	Online Webinar by Mr. Sunil Sharan Yadav	Physics	07-04-2022
18.	Educational trip to IUAC, New Delhi	Physics	20-04-2022
19.	World Earth Day Celebration	Physics	22-04-2022
20.	Educational trip to IIT Roorkee	Physics	12 to 15-05-22
21.	One day workshop on Experimental skill	Physics	20-05-2022
22.	Felicitation of M.Sc. and B.Sc. Students	Physics	25-06-2022
23.	Educational trip to NPL, New Delhi	Physics	30-06-2022
24.	Better Communication for Better Future	Prayaas	03-06-2022
25.	Basic Computer Knowledge	IQAC	27 to 28-05-22
26.	Writing a High Impact Research Paper	IQAC	27-06-2022
27.	Vehicle/Driver Programme	IQAC	16-04-2022

### Minutes of the meeting:

Dr. Mahesh Kumar Yadav (Management Nominee) welcomes all the members and Dr. Davender Singh, Principal and Chairperson IQAC presented the agenda to be discussed in the meeting.

1. Minutes of 8<sup>th</sup> IQAC meeting held on 29<sup>th</sup> March 2022 sent to all the members are confirmed.
2. **Preparation of New Academic Session:** After the successful completion of the academic session 2021-22, all HODs were instructed to work for the preparation of session 2022-23. Work load distribution may please be carried out without delay keeping in view the total students enrolled in the institution. After work load distribution, faculty requirement as per the letter received from Dean Academic's Office will also be reviewed and will be processed accordingly.
3. **Preparation and Submission of AQAR 21-22:** IQAC coordinator and all other Heads were instructed to work on preparation and submission of Annual Quality Assurance Report for the academic session 2022-23.
4. **Research & Collaborative Work:** To promote quality research work in the campus it has been decided that faculty members should apply for research project in various funding agencies like DST, CSIR, DBT, UGC etc. House noted down the research output of the academic session 2021-22. Many faculty members from various departments published research papers in journals of national and international repute, attended many Faculty

Development Programme, Workshops, Seminars, Orientation & Refresher Courses etc. The detail is as under:

**Research Papers: 14**

**Books and Book Chapters: 06**

**Workshop/FDP/Seminar/Conference/Orientation & Refresher Course: 21**  
(Separate List is Attached as 'ANNEXURE 1')

Similarly, collaborative research work must be carried out by faculty members and students.

5. **Feedback System:** The feedback system is to be improved from the next academic session. Feedback must be taken from the students at least two times in a semester. It should be analyzed properly and proper action must be taken in due course of time.
6. **Functional Cells:** All the cells and committees must be functional and rooms will be allocated for better operations to each committee. Keeping in view the strength of female students in campus, it was also suggested that Women Cell must organize at least 08-10 activities in an academic session. Similarly, career guidance plays a vital role in student's life. Most of the students are not aware about it during their college days. Therefore, it is the duty of Placement and Career Guidance Cell to organize such events by which students can be benefited with respect to their career.
7. **Alternate Source of Energy:** With increase in energy consumption in the institution, we must search alternative sources of energy. This is also required with NAAC point of view. Director and Registrar both agreed to work for it. Detailed plan will be submitted in next meeting after proper consultation electrical engineering department of RPSCET.
8. **Waste Management:** This point is also important as per Government notification and NAAC point of view. The members suggested that we must hire some external agencies to work on it and director will look after it.
9. **ICT Facility:** College is regularly improving its ICT facility. It has been decided by all the members that to begin with the things 25% of the total lectures of each subject must be covered through presentations or by using other mode of ICT tools. The responsibility was handed over to all HODs and Dean Academics to work on it.
10. **NIRF and ISO Certification:** College has already applied for recognition under 2(f) and 12(b) of UGC act but didn't participate in National Institute Ranking Framework (NIRF). Dr. Yashpal Sharma was appointed as NIRF coordinator to work on it. All the members suggested that to enhance the quality, we must go for ISO certification and the task was handed over to Dr. M.K. Yadav for better execution.

The meeting ended with vote of thanks to chair

  
Dr. Yashpal Sharma  
Co-Ordinator, IQAC Cell

  
Dr. Davender Singh  
Principal  
RPSCET (Principal)  
Balana (Jh/Jarh)

## 6.3.4

**Faculty members undergoing online/ face-to-face FDP, PDP, Orientation/Induction Programmes, Refresher Course, Short Term Course (w.e.f. August 2021 - July, 2022)**

S. No.	Name of Faculty	Participated in Online/ face-to-face FDP/PDP, Orientation/ Induction Programmes, Refresher/ Short Term Course
1.	Dr. Yashpal Sharma	1. International One Week FDP on "Research Methodology" organized by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra held during 02.05.2022 to 07.05.2022. 2. National One Week FDP on "ICT Tools for Effective Teaching and Learning" organized by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra held during 23.05.2022 to 28.05.2022.
2.	Ms. Archana Sahoo	1. One week FDP on "Recent Trends in Optics and Plasma Physics organized by Department of Physics and Materials Science and Engineering (PMSE) at Jaypee Institute of Information Technology, Noida held during 21.07.2022 to 27.07.2022. 2. Orientation/Refresher programme on "Quantum Computing Fundamentals organized by Inderprastha Engineering College, Ghaziabad, UP held during 07.02.2022 to 12.02.2022. 3. Short term course on Machine Learning Using Python through ICT conducted by Computer Science and Engineering Department at RPS College of Engineering & Technology, Mahendergarh, Haryana held during 28.03.2022 to 01.04.2022. 4. Training Program/ Workshop on "Scientific Communication" organized by CSIR-National Physical Laboratory, New Delhi held during 25.03.2022 to 26.03.2022.
3.	Dr. Kavita	1. Orientation/Refresher programme on "Quantum Computing Fundamentals organized by Inderprastha Engineering College, Ghaziabad, UP held during 07.02.2022 to 12.02.2022 in Physics
4.	Dr. Jyoti Yadav	1. Short term course on Machine Learning Using Python through ICT conducted by Computer Science and Engineering Department at RPS College of Engineering & Technology, Mahendergarh, Haryana held during 28.03.2022 to 01.04.2022.
5.	Mr. Sachin	1. Short term course on Machine Learning Using Python through ICT conducted by Computer Science and Engineering Department at RPS College of Engineering & Technology, Mahendergarh, Haryana held during 28.03.2022 to 01.04.2022.
6.	Mr. Praveen	1. Short term course on Machine Learning Using Python through ICT conducted by Computer Science and Engineering Department at RPS College of Engineering & Technology, Mahendergarh, Haryana held during 28.03.2022 to 01.04.2022.
7.	Dr. Hemant Kumar	1. Workshop on "Integrating Sustainable Development Goals into Rural Development Agenda: Water, Sanitation Services in Village Development Plans" held at National Institute of Rural Development and Panchayati Raj (NIRD&PR), Delhi Branch on 11.07.2022.
8.	Mr. Deepak Nain	1. Attended ACS Science Talks on "First-principle Computational Chemistry: From molecules to materials" on 25.02.2022.



FDP/PDP: 03,

Short Term Course: 04

Orientation/ Refresher Programmes: 02,

Workshop: 02

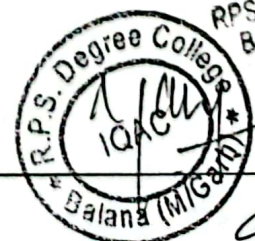
Science Talk: 01  
Principal  
RPS Degree College  
Balana (N.G.)

### 3.2 Research Papers

#### 3.3.3 Paper Published in National/International Conferences and Book Chapters

(w.e.f. August 2021 - July 2022)

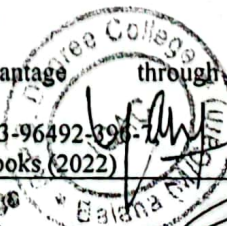
S. No.	Name of Faculty	3.2 Research Papers with Date of Publication	3.3.3 Conferences and Book Chapters
1.	Dr. Davender Singh	<ol style="list-style-type: none"> <li>Sugarcane bagasse: an important lignocellulosic substrate for production of enzymes and biofuels, P. Yadav, Anu, S.K. Tiwari, V. Kumar, Davender Singh, S. Kumar, Manisha, V. Malik, B. Singh, Biomass Conversion and Biorefinery, (2022). 28.05.2022</li> <li>Cellulase Production by Myceliophthora thermophila in Solid State Fermentation and Its Utility in Saccharification of Rice Straw, Anu, Davender Singh, V. Kumar, V. Kumar, V. Malik, B. Singh, New Energy Exploitation and Application, 01 (02) (2022) 10-17. 10.05.2022</li> </ol>	
2.	Dr. Kavita		<ol style="list-style-type: none"> <li>Study of shell effects in fusion fission dynamics, A. Sen, Kavita, et.al. Proceedings of the DAE Symposium on Nuclear Physics, 65 (2021) 219-220. ISBN: 978-81-83720847</li> <li>Study of mass angle correlations for the reaction <math>^{28}\text{Si} + ^{160}\text{Gd}</math> populating <math>^{188}\text{Pt}</math> compound system, Vikas, Kavita et. al., Proceedings of the DAE Symposium on Nuclear Physics, 65 (2021) 423-424. ISBN: 978-81-83720847</li> </ol>
3.	Dr. Jitendra Gangwar	<ol style="list-style-type: none"> <li>Probing into crystallography and morphology properties of <math>\text{MoS}_2</math> nanoflowers synthesized via temperature dependent hydrothermal method, N. Kumar, P. Siroha, H. Shankar, D. Singh, Y. Sharma, R. Kumar, Ramovatar, N. Yadav, K.K. Dey, H. Borkar and Jitendra Gangwar, Nano Express 3, 035001 (2022) 06.07.2022.</li> <li>Asymmetric resistive switching by anion out-diffusion mechanism in transparent Al/ZnO/ITO heterostructure for memristor applications, S. Gora, L. Thyda, G. Dasi, R. Muniramaiah, A. Thakre, Jitendra Gangwar, D.P. Joseph, M. Kovendhan, P.A. Azeem, D. Dinakar, K. Thangaraju, H. Borkar, Surfaces &amp; Interfaces 30, 101950 (2022) 15.04.2022.</li> <li>Electric field modulated photoluminescence in ferroelectric ceramics for photosensitive device applications, H. Borkar, S. Mishra, Jitendra Gangwar, D. Haranath and A. Kumar, Materials Research Bulletin 152, 111831 (2022) 24.03.2022.</li> <li>Probing on crystallographic structural and surface morphology of hydrothermally synthesized <math>\text{MoS}_2</math> nanoflowers consisting</li> </ol>	<ol style="list-style-type: none"> <li>P. Siroha, N. Kumar, R. Kumar, D. Singh and Jitendra Gangwar. 3D Visualization of Crystallography Information of Hydrothermally Synthesized 2H-<math>\text{MoS}_2</math> Nanocrystalline Material. 65<sup>th</sup> DAE SOLID STATE PHYSICS SYMPOSIUM, 55 (2021) 212-213. ISBN No: 81-8372-085-4. (15-19.12.2021)</li> <li>Book Chapter: Polymer-metal oxide heterostructures: formation, characteristics and applications Book Title: Metal Oxide-Based Heterostructures: Fabrication and Applications Y. Sharma, A.K. Sharma, N. Kumar, R. Kumar, P. Siroha and Jitendra Gangwar, ISBN: 978-0-323-85241-8, Publisher: Elsevier (Elsa), 141-190 (2022)</li> </ol>






Principal  
R.P.S. Degree College  
Balana (MIG)

		<p>of nanosheets, N. Kumar, P. Siroha, Y. Sharma, D. Singh, K.K. Dey, R. Kumar, H. Borkar and J. Gangwar, Applied Surface Science Advances 6, 100167 (14.09.2021).</p> <p>5. Effect of Annealing on Structural, Compositional and Optical Properties of Composite ZIO Thin Films, A. Khandelwal, R. Shukla, J. Gangwar, K.S. Sharma, The IIS University Journal of Science and Technology, 10(1), 65-70 (2021).</p>	
4.	Dr. Jyoti Yadav		<p>1. Poster entitled "Meissner effect in Superconductors" in 7<sup>th</sup> National Conference on Innovations in Science, Engineering &amp; Technology (NCISET-2022) organized by Department of Chemistry, Arya Post Graduate College, Panipat, Haryana, on February 19, 2022.</p> <p>2. Paper entitled "Location analysis of piezoelectric energy harvested in open channel hydrodynamic system" in 7<sup>th</sup> National Conference on Innovations in Science, Engineering &amp; Technology (NCISET-2022) organized by Department of Chemistry, Arya Post Graduate College, Panipat, Haryana, on February 19, 2022.</p>
5.	Mr. Sachin		<p>1. Paper entitled "Nanostructured Metal Oxide for Photocatalytic Applications" in International Conference on Frontiers in Physics, Material Science &amp; Nanotechnology (FPMSN-2022) held on 25-26<sup>th</sup> Mar, 2022 at Chaudhary Devi Lal University, Sirsa.</p>
6.	Mr. Praveen Kumar		<p>1. Paper entitled "Enhancement of Energy Storage in Supercapacitor" in International Conference on Frontiers in Physics, Material Science &amp; Nanotechnology (FPMSN-2022) held on 25-26<sup>th</sup> Mar, 2022 at Chaudhary Devi Lal University, Sirsa.</p>
7.	Mr. Somveer		<p>1. Paper entitled "Comparative study on transition metal chalcogenides nanomaterials capability in energy storage devices" held in International Conference on Frontiers in Physics, Material Science &amp; Nanotechnology (FPMSN-2022) held on 25-26<sup>th</sup> Mar, 2022 at Chaudhary Devi Lal University, Sirsa.</p>
8.	Ms. Varsha	<p>1. Impact of Artificial Intelligence in HR Practices in Service Sector in India. Varsha, International Journal of Creative Research Thoughts, 10 (1), 2022. ISSN: 2320-2882, Paper ID: IJCRT2201391. 15.01.2022</p>	<p>1. Book Chapter: The study of prospects of E-commerce in Rural areas (A case study of Bhiwani District in Haryana) Book Title: Strategic Advantage through Innovations Varsha, ISBN: 978-3-96492-398-1 Publisher: Weser Books (2022)</p>

Principals  
APS Degree College  
Balana





9.	Dr. Yashpal Sharma		<ol style="list-style-type: none"> <li>1. Chemistry: Lab Manual, Y.P. Sharma, R. Kumar, N. Chandel, Akash Publishing House (Code: CHEM 101 PR) ISBN: 978-93-91743-00-5</li> <li>2. Chemistry: Lab Manual, Y.P. Sharma, R. Kumar, N. Chandel, Akash Publishing House (Code: CHEM 102 PR) ISBN: 978-93-91743-03-1</li> </ol>
10.	Dr. Jitender Jindal		<ol style="list-style-type: none"> <li>1. Chemistry: Lab Manual, R. Kumar, N. Chandel, Y.P. Sharma and J, Jindal, Akash Publishing House (Code: CHEM 202 PR) ISBN: 978-93-91743-71-4</li> <li>2. Chemistry: Lab Manual, R. Kumar, N. Chandel, Y.P. Sharma and J, Jindal, Akash Publishing House (Code: CHEM 201 PR) ISBN: 978-93-91743-70-6</li> <li>3. Book Chapter: Advanced Materials towards Environmental Protection Book Title: Advanced Materials for a Sustainable Environment N. Kumar, P.R. Makgwane, J. Jindal. ISBN: 9781003206385, Publisher: Taylor &amp; Francis Group (2022)</li> </ol>
11.	Dr. Hemant Kumar	<ol style="list-style-type: none"> <li>1. Soil erosion assessment in a part of gully affected Chambal region, Uttar Pradesh (India), using Morgan-Morgan-Finney model, Hemant Kumar, P. Pani, Modeling Earth Systems and Environment, 8, 5279-5288 (2022). 26.03.2022</li> </ol> 	<ol style="list-style-type: none"> <li>1. Paper entitled paper "Soil Erosion Risk Assessment in a Part of Lower Chambal Valley (India) using Morgan-Morgan-Finney Model" in Online National Seminar on "Geo-Spatial Technologies in Rural Development" organized by NIRDPR-NERC, Guwahati during 09<sup>th</sup> - 10<sup>th</sup> Feb, 2022.</li> <li>2. Workshop on "Integrating Sustainable Development Goals into Rural Development Agenda: Water, Sanitation Services in Village Development Plans" held at National Institute of Rural Development and Panchayati Raj (NIRD&amp;PR), Delhi Branch on 11<sup>th</sup> July, 2022.</li> </ol>
12.	Mr. Rahul Sharma		<ol style="list-style-type: none"> <li>1. Participated in Energy Conclave-2022 "Renewable Energy and Sustainable Development (RES2022)" the paper on "A Statistical Study of Social Waste Generation in India" held at Banaras Hindu University, Varanasi during 26<sup>th</sup> - 27<sup>th</sup> March, 2022.</li> </ol> 
13.	Ms. Shardha	<ol style="list-style-type: none"> <li>1. Human Resource Development and Skill Employment in present Era. Shardha, International Journal of Creative Research Thoughts, 10 (3), 2022. ISSN: 2320-2882 Paper ID: IJCRT2203267. 01.03.2022</li> </ol> 	



Principal  
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