



www.conferenceworld.in

**1ST INTERNATIONAL CONFERENCE ON RECENT
DEVELOPMENTS IN SCIENCE, HUMANITIES &
MANAGEMENT-2018**

ICRDSHM-18

ORGANIZED BY:



AMAR SINGH COLLEGE

CLUSTER UNIVERSITY, GOGJI BAGH, SRINAGAR (J&K)

17TH-18TH APRIL 2018

ISBN: 978-93-87793-00-2

**1ST INTERNATIONAL CONFERENCE ON RECENT
DEVELOPMENTS IN SCIENCE, HUMANITIES &
MANAGEMENT-2018**

ICRDSHM-18

Editors

PROF. SYED ISHFAQ MANZOOR

DR. SYED MUTAHAR AAQIB

Publish By:

A.R. Research Publication

Preface

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. Conference world has organized a various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the *1st International Conference on Recent Developments in Science, Humanities & Management-2018 (ICRDSHM-18)*. As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 17 represented by the delegates. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

About Conference

Amar Singh College, Cluster University Srinagar in collaboration with Conference World (A.R.Publications) is organizing **1st International Conference on Recent Developments in Science, Humanities & Management-2018(ICRDSHM-18)**. The Conference aims to address the new advancements and challenges in the field of Science, Humanities and Management. The objective is to bring on a single platform leading academicians, scientists, researchers, scholars and students to exchange and share their knowledge, experiences and research results on the aspects of advancements in Sciences, Technology, humanities and management. This forum will provide opportunity to network and discuss the practical challenges encountered and solutions adopted in their respective domains worldwide. **All the accepted papers will be published in International Journals(UGC Approved) with ISSN and in the conference proceeding with ISBN.**

Housed in the ambit of the glorious heritage building, an Anglo - Indian architectural marvel, Amar Singh College has the unique prestige and honour of having served the society for more than a century. The college started first in November 1913 as Amar Singh Technical Institute to teach students art, culture and basic skills like masonry, carpentry etc and was formally opened by Maharaja Pratap Singh on 29th May 1914. The Technical Institute was converted into Amar Singh College in June 1942 through bifurcation of Sri Pratap College. The year 2017 holds a special place in the academic history of Amar Singh College as it marks the platinum jubilee year of the foundation of the college as a seat of higher learning.

The historical, social, and educational pre-eminence of the college hardly needs any reiteration. Beginning the journey under the leadership of Dr. M. D. Taseer, an eminent intellectual of the Indian subcontinent, the Hall of Fame of the college includes most prominent academicians of their respective fields who through their hard work and dedication have brought the college to its present prestige and place. The distinguished alumni of the college have made a mark in various walks of life both locally and internationally. A galaxy of academic luminaries has been serving in the institution since 1942 and this tradition continues till date.

The college which is located near Bakshi Stadium with Gogji Bagh to its East, Ram Bagh to its West, Iqbal Park to its North and Tulsī Bagh on its Southern side, spreads over 35 hectares (145553m²) of land constituted of infrastructure buildings amounting to a total built-up area of about 30000m² including a large playground, parks, and gardens. The college embarked upon a programme of diversification in a planned and systematic manner. The journey towards excellence, the academic journey of the college took off in 1942 with just two streams - Non-Medical and Arts besides having the distinction of conducting PG classes in English and Economics in late forties. Since then the institution has made tremendous strides in terms of the variety of subjects and courses it offers. Medical stream was introduced in 1982 followed by the introduction of a wide spectrum of disciplines including Islamic Studies (1993), Philosophy, Sociology and Tourism Studies and Travel Management (1997), Statistics (1998), IGNOU Study Centre (1999), BCA (2001), Psychology (2002), Functional English (2004), PG Geography (2005), Commerce (2010), and English Honours (2011), and quite recently five-year Integrated Courses in various subjects.

From 1942 to 2017, from merely a college offering few courses to the Nodal College Kashmir and one of the constituent colleges of the Cluster University Srinagar, from a drop of few students to an ocean of students, from a faint whisper to a thunderous roar, Amar Singh College has come a long way in the past 75 years. Through the decades of turmoil, the recent floods and other upheavals, Amar Singh College has stood as a testimony to its motto of 'عَلَّمَ الْإِنْسَانَ مَا لَمْ يَعْلَمْ: Light more Light' and serving the society. The platinum jubilee celebration marks a memorable occasion for our students, teachers, alumni, and others associated with this esteemed institution and I am personally glad to be leading the institution during the fête.

ABOUT THE COLLEGE

Amar Singh College Srinagar is a premier Post-Graduate college of the state, a Nodal College and a Constituent Lead College of the Cluster University Srinagar established under J&K State Act- III of 2016. This college holds a distinguished position as the second oldest college in the Kashmir Valley after S.P College. It started first in November 1913 as Amar Singh Technical Institute to teach students art, culture and basic skills like masonry, carpentry etc and was formally inaugurated by Maharaja Pratap Singh on 29th May 1914. The Technical Institute was converted into Amar Singh College in June 1942. The college is located near Bakshi Stadium Srinagar is spread over 35 hectares (145553m²) of land which constitutes an infrastructure of buildings amounting to a total built-up area of about 30000m² including a large playground, parks, and gardens. The college has produced a galaxy of intellectuals and scholars who have contributed at the local and global levels as well. Famous Alumni of the college include Major General Mohammed Amin Naik, (Chief Engineer, Central Army Command, and first Kashmiri Muslim General in the Indian Army), Prof. Amitabh Mattoo (Noted Academician and Advisor to Hon'ble Chief Minister), Dr. Krishan Kumar (Chief technologist, NASA), Mr. M. Iqbal Khanday (Chief Secretary, J&K Govt.), Mr. Sofi Gh. Rasool (Chief Information Commissioner, J&K Govt.) and Dr. Adarsh Sen Anand (Former Chief Justice of Supreme Court)

Conference Highlights

1. All the accepted and presented/Non Presented papers of the duly registered authors will be published in the special conference issues of the international journals approved by UGC having ISSN & Impact factor.
2. Every author will get two certificates, one for paper publication in Journal other for paper presentation in conference.
3. Registration kit for each papers those will attend the conference at venue.
4. All the papers of the conference will be published in the conference proceeding with ISBN.
5. All the accepted and presented/Non Presented papers will be indexed in Google scholar & IDIIF.

Hon. Chief Patron

Dr. Asgar Hassan Samoon(IAS)

Principal Secretary to Government, Higher Education Department, J&K

Patron

Prof. (Dr.) Yasmeen Ashai,

Principal Amar Singh College

Chief Guest

Jenab Syed Mohammad Altaf Bukhari

Honourable Minister of Education J&K

International speakers

Abubakar Mohammed

Ms. Aishatu Abdullahi Adamu

National speaker

Prof. Dr. B. Sridhar Reddy ,

Principal, Scient Institute of Technology , Ibrahimpatnam, Hyderabad,

International Advisory Board

Dr.Vijanth Sagayam Asirvadam, University of Petronas, Malaysia

Dr. Heba Hassan ,Dhofar University,Salalah, Oman

Dr. Santolo Meo Federico II University,Naples, Italy

Dr.N.Nagappan, Addis Ababa Science & Technology University, Ethiopia ,NE

Dr.K.Vaithyanathan, DHB Mines, West Australia

Dr. Ajmal Pathan, Software Engineer Consultancy Kenia.

Dr. Jokopovic, Mushroom Medicinal society Croatia.

Dr. V. A. Jambhekar, Marine Engineering Germany.

Dr. P.K. Sahoo, Head, Department of Mathematics,

BITS-Pilani, Hyderabad Campus, Hyderabad

Dr. Mrs. P. V. Jambhekar, Cancer Research Institute, Germany.

Local Advisory Board

Prof. Abdul Hai, Department of Zoology
Prof. Maqsood Hussain, Department of Physics
Prof. P.P. Singh, Department of History
Prof. Gulzar Ahmad Padder, Department of Urdu
Prof. Mushtaq Ahmad Lone, Department of Sociology
Prof. Tehmina Yousuf, Department of Zoology
Prof. Tariq Ashai, Department of Chemistry
Prof. Aijaz Hakak, Department of Statistics
Prof. N. A. Simnani, Department of Political Science
Prof. Mujahid Ahmad, Department of Geography
Prof. Mujeeb Kawoosa, Department of Mathematics
Prof. Rubaya, Department of Botany

Organizing Secretaries/Conference Coordinators

Prof. Syed Ishfaq Manzoor,
Department of Computer Sciences

Dr. Syed Mutahar Aaqib ,
Department of Computer Science

Organizing Committee

Dr. Hamidullah Wani, Department of Geology
Dr. Nazir Ahmad Bhat, Department of Education
Dr. Helal Ahmed Lone, Department of Botany
Dr.. Shabeena Kuttay, Department of English
Prof. Asif Kawoosa, Department of Computer Science
Prof. Rashid Malik, Department of Computer Science
Prof. Ovass Shafi, Department of Computer Science
Prof. Muzaffar Sofi, Department of Computer Science
Dr. Imran Khan, Department of Commerce
Prof. Tawseef Ahmad, Department of Computer Science
Prof. Suzain Rashid, Department of Education

Day 1 (17th April 2018)

TRACK : Animal Sciences 2PM-6PM, VENUE:BUKHARI HALL, Date: 17th April 2018
TRACK : Chemical Sciences 2PM-6PM, VENUE: DEPT OF GEOGRAPHY, Date: 17th April 2018
TRACK : Humanities, 2PM-4PM, VENUE: TASEER HALL, Date: 17th April 2018
TRACK : Mathematical Sciences, 2PM-6PM, VENUE: JKIMS, Date: 17th April 2018
TRACK : Management & Commerce, 2PM-6PM, VENUE: R & D LAB, Dept of Computer Sciences, Date: 17th April 2018
TRACK : Plant Sciences I, 2PM-6PM, VENUE: LAB 1 , DEPT OF COMPUTER SCIENCE, Date: 17th April 2018
TRACK : Plant Sciences II, 2PM-6PM, VENUE: GEOLOGY LAB, Date: 17th April 2018
TRACK : Social Sciences I, 2PM-6PM, SMART CLASS ROOM, DEPT OF CS, Date: 17th April 2018

Day 2 (18th April 2018)

TRACK : Physical and Earth Sciences I , 11AM:3PM, VENUE: R & D LAB, DEPT OF COMPUTER SCIENCES , Date: 18th April 2018
TRACK : Plant Sciences III, 11 AM-3 PM, VENUE: GEOLOGY LAB, Date: 18th April 2018
TRACK : Social Sciences II, 11AM:3PM, VENUE: TASEER HALL, Date: 18th April 2018
TRACK : Social Sciences III, 11AM:3PM, VENUE: SMART CLASS ROOM, Date: 18th April 2018

TECHNICAL SESSION SCHEDULE (DAY 1):

Day 1: Parallel Sessions (2PM-6PM)		
<p>Technical Session I:</p> <p>Humanities I & II</p> <p>Venue: Taseer Hall Chairperson: Prof. (Dr.) Nasreen Malik Prof. Rubeena Jabeen</p> <p>Co-Chairpersons: Dr. Mubeena Fazili, Dr. Gulzar Padder</p> <p>Incharge Venue: Dr. Gazala Gayas</p> <p>Rapporteurs: Dr. Deeba Shireen, Prof. Javeria</p> <p>Supporting Staff : Bilal Shiekh</p>	<p>Technical Session II:</p> <p>Social Sciences-I</p> <p>Venue: Smart Class Room, Dept of CS</p> <p>Chairperson: Prof. (Dr.) G. N. Khaki</p> <p>Co-Chairpersons: Dr. N. A. Simnani, Prof. Mushtaq Lone</p> <p>Incharge Venue: Prof. Muzaffar Sofi.</p> <p>Rapporteurs: Prof. Suzain, Prof. Shazia Habib</p>	<p>Technical Session: III</p> <p>Plant Sciences-I</p> <p>Venue: Lab 1 , Dept of CS</p> <p>Chairperson: Prof. (Dr.) Anayatullah Tahir</p> <p>Co-Chairpersons: Prof. Rubaya Dr. Mukhtar Ahmad</p> <p>Incharge Venue: , Prof. Rashid Malik, Dr. Irfan Khurshheed</p> <p>Rapporteurs: Prof. Kasira</p>

<p>Technical Session IV:</p> <p>Plant Sciences-II</p> <p>Venue: Geology Lab Chairperson: Prof. (Dr.) M. A. Shah</p> <p>Co-Chairpersons: Dr. Helal Lone, Dr. Pervaiz Dar(Botany)</p> <p>Incharge Venue: Prof. Tawseef Ahmed</p> <p>Rapporteurs: Prof. Zahid Zaffer, , Prof. Nida</p>	<p>Technical Session V:</p> <p>Animal Sciences</p> <p>Venue: Bukhari Hall</p> <p>Chairperson: Prof. (Dr.) Fayaz Ali</p> <p>Co-Chairpersons: Dr. Abdul Hai, Dr. Pervaiz A. Dar(Zoology)</p> <p>Incharge Venue: Prof. Ovass Shafi,</p> <p>Rapporteurs: Prof. Asma, Dr. Imtiaz Gul</p>	<p>Technical Session: VI</p> <p>Engineering /Mathematical Sciences</p> <p>Venue: JKIMS</p> <p>Chairperson: Prof. (Dr.) N. A. Rather</p> <p>Co-Chairperson: Prof. Mujeeb Kawoosa, Prof. Asif Iqbal Kawoosa</p> <p>Incharge Venue: Prof. Asif Iqbal Kawoosa</p> <p>Rapporteurs: Prof. Fareeda, Prof. Basharat</p>
--	---	--

<p>Technical Session VII:</p> <p>Management & Commerce</p> <p>Venue: R&D Lab</p> <p>Chairperson: Prof. (Dr.) M. A. Darzi</p> <p>Co-Chairpersons: Dr. Mujahid Ahmed, Prof. Ishfaq Ahmed</p> <p>Incharge Venue: Dr. Hamidullah Wani, Dr. Anayat Qureshi,</p> <p>Rapporteurs: Dr. Imran Khan, Dr. Rouf</p>	<p>Technical Session VIII: Chemical Sciences</p> <p>Venue: Geography Dept</p> <p>Chairperson: Prof. (Dr.) Muzaffar A. Andrabi</p> <p>Co-Chairpersons: Prof. Tariq Ashai, Prof. N. A. Khan</p> <p>Incharge Venue: Dr. Umer Bukhari , Prof. Inayatullah</p> <p>Rapporteurs: Prof. Nusrat , Prof. Jamsheda</p>
--	---

TECHNICAL SESSION SCHEDULE (DAY 2):

Day 1: Parallel Sessions (11PM-3PM)	
<p>Technical Session I:</p> <p>Social Sciences-II</p> <p>Venue: Taseer Hall</p> <p>Chairperson: Prof. (Dr.) Parveen Pandit</p> <p>Co- Chairpersons: Prof. Aliya Chesti Prof. Abdul Waheed Bhat</p> <p>Incharge Venue: Prof. Muzaffar Sofi.</p> <p>Rapporteurs: Prof. Suzain</p>	<p>Technical Session II:</p> <p>Social Sciences-III</p> <p>Venue: Smart Class Room, Dept of Computer Sc</p> <p>Chairperson: Prof. (Dr.) Shazia Manzoor</p> <p>Co-Chairpersons: Prof. P.P. Singh, Dr. N. A. Bhat</p> <p>Incharge Venue: Prof. Tawseef Ahmed</p> <p>Rapporteurs: Prof. Zahid Zaffer, Prof. Nida</p>

<p>Technical Session IV:</p> <p>Venue: R & D Lab , Dept of Computer Sciences</p> <p>Physical & Earth Sciences</p> <p>Chairperson: Prof. (Dr.) Rakesh Chandra</p> <p>Co- Chairpersons: Prof. Maqsood Hussain Dr. Hamidullah Wani,</p> <p>Incharge Venue: Dr. Anayat Qureshi</p> <p>Rapporteurs: Dr. Syed Umer Latief Bukhari, Prof. Ishtiyag Ahmed</p>	<p>Technical Session: III</p> <p>Plant Sciences-III</p> <p>Venue: Geology Lab</p> <p>Chairperson: Prof. (Dr.) Zahoor. A. Kaalo</p> <p>Co-Chairpersons: Prof. Rubaya Dr. Mukhtar Ahmad Dr. Shazia Mushtaq</p> <p>Incharge Venue: ,Prof. Rashid Malik, Dr. Irfan Khurshed</p> <p>Rapporteurs: Prof. Kasira , Prof. Jamsheda</p>
--	---



Dr. Asgar Hassan Samoon, IAS

**Principal Secretary to Government
Higher Education Department
Government of Jammu & Kashmir**

Message



It is indeed heartening to learn that Amar Singh College is organizing **1st International Conference on Recent Developments in Science, Humanities & Management (ICRDSHM-18)** from 17th -18th April 2018. The highlight of this multi-disciplinary conference is that it brings together expertise from various disciplines across the country and abroad.

I appreciate the efforts of Amar Singh College in organizing such an international event and wish such programmes will be conducted in future as well.


(Dr. Asgar Hassan Samoon, IAS)

MESSAGE



With immense pleasure, I welcome you to the **1st International Conference on Recent Developments in Science, Humanities & Management (ICRDSHM-18)** to be held by this college on 17th -18th April 2018. The main objective of this conference is to provide an multi-disciplinary platform to address the new advancements and challenges in the field of Science, Humanities and Management. The conference, I hope will bring together delegates and distinguished speakers from across the world. Being a multi-disciplinary conference, it encourages everyone to showcase their research work and experience through various sessions. By discussions and interactions we learn the most and I want you to have useful pragmatic take home experiences that may enhance one's academic and professional skills.

I am sanguine that the deliberations during the conference will provide a useful platform to the participants and Resource persons.

Prof. (Dr.) Yasmeen Ashai

PRINCIPAL

Organising Secretaries's Message



On behalf of the organizing committee we welcome you to the **1st International Conference on Recent Developments in Science, Humanities & Management (ICRDSHM-18)** being organized by this college in collaboration with ConferenceWorld on 17th-18th April 2018. It's a proud privilege for this college to host this event.

We have received an overwhelming response of 2200 papers from research scholars and academicians across the country and abroad among which 505 papers were accepted for presentation.

We will have 12 sessions for two days which would include sessions on Humanities, Social Sciences, Plant Sciences, Animal Sciences, Management and Mathematical Sciences. These sessions would be chaired by eminent and academicians of international repute. We are sure that the faculty and delegates would enjoy their stay in the mesmerizing beauty of Kashmir.

It gives us a platform to learn, to share and to discuss our needs amongst the stalwarts in the field. Senior faculty members across various disciplines across the world would be attending the conference and sharing their valuable experience for the benefit of the audience.

We hereby welcome you all and thank you in advance for making this event a success.

Sd/-

Prof. Syed Ishfaq Manzoor

*Assistant Professor
Department of Computer Sciences*

Sd/-

Dr. Syed Mutahar Aaqib

*Assistant Professor
Department of Computer Sciences*

Published by

AR Research Publication,

3/186 Santpura Govindpuri Modinagar- 201201 . Dist: Ghaziabad

1st International Conference on Recent Developments in Science, Humanities & Management-2018 (ICRDSHM-18) (Vol-01) Copyright © 2018, by AR Research Publication (India)

No part of this publication may be reproduced or distributed in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise or stored in a database or retrieval system without the prior written permission of the publishers. The program listing (if any) may be entered, stored and executed in a computer system, but they may not be reproduced for publication.

This edition can be exported from India only by the publishers, AR Research Publication (India)
ISBN: 978-93-87793-00-2

Managing Director: Gauri Sharma

Senior Researcher—Product Development: Ms. Pratima Singh

Head—Production (Higher Education and Professional): Satinder Kulkarni

Information contained in this work has been obtained by AR Research Publication (India), from sources believed to be reliable. However, neither AR Research Publication (India) nor its authors guarantee the accuracy or completeness of any information published herein, and neither AR Research Publication (India) nor its authors shall be responsible for any errors, omissions, or damages arising out of use of this information. This work is published with the understanding that AR Research Publication (India) and its authors are supplying information but are not attempting to render engineering or other professional services. If such services are required, the assistance of an appropriate professional should be sought.

Cover Design: Gaurav Kumar