

MULTANI MAL MODI COLLEGE, PATIALA

Annual Report-2015

(1-1-2015 to 31-12-2015)

1. **Principal** : Dr Khushvinder Kumar, MSc (Maths), PhD
New staff members : Nil
Staff members retired: Sh. Jaib Singh, Sports Boy

2. Extension Lectures

(a) The college teachers who delivered lectures in other institutions: **24 (Twenty Four) Lectures**

Dr. Khushvinder Kumar (Principal)

- (i) Theme: Introspection and Improvement in Transaction Practices
Place: Hindu Kanya College, Kapurthala
Date: 10 Jan, 2015
- (ii) Theme: Action Research
Place: Babe Ke College of Education, Mudki (Ferozepur)
Date: 21 April, 2015

Prof Sharwan Kumar (Commerce)

Theme: Salary and Relief u/s 89 of Income Tax Act.
Place: Income Tax Dept., Patiala (Training Programme of Tax Asst. Trainees)
Date: 31 Dec., 2015

Dr Ashwani Kumar Sharma (Botany)

- (i) Theme: Respiration – An Essence of Life
Place: Govt. Mohindra College, Patiala
Date: 27 Nov., 2015
- (ii) Theme: Plant Nutrients
Place: Public College, Samana
Date: 28 Nov., 2015

Dr Rajeev Sharma (Chemistry)

Theme: Environmental Issues
Place: A. S. College, Khanna
Date: 29 Jan, 2015

Dr Neeraj Goyal (Business Management)

- (i) Theme: Sports Infrastructure Management
(Delivered 7 lectures to Sri Lankan delegates)
Place: National Institute of Sports (NIS), Patiala
Dates: 12-24 January, 2015
- (ii) Theme: Career Consultancy (Hello Jagran Programme)
Place: Office of the Dainik Jagran, Patiala
Date: 21 March, 2015
- (iii) Theme: Sports Infrastructure Management
(Delivered 8 lectures)
Place: National Institute of Sports (NIS), Patiala
Dates: 5-25 May, 2015

Dr Ajit Kumar (Computer Science)

Theme: Vision of Digital India
Place: Govt. Bikram College of Commerce, Patiala
Date: 7 July, 2015

Dr Varun Jain (Mathematics)

Theme: Analytic Function

Place: Govt. Mohindra College, Patiala

Date: 17 Aug., 2015

(b) Extension Lectures organized by the College: 07 (Seven)

- (i) **Theme:** Significance of National Youth Day
Speaker: Sh. Chander Shekhar Talwar, IAS (Retd.),
State Secretary, Indian Red Cross Society, Punjab
Date: 12 January, 2015
- (ii) **Theme:** Significance of National Voters' Day
Speaker: Dr. (Mrs.) Indu Malhotra, Commissioner, Municipal Corporation, Patiala
Date: 25 January, 2015
- (iii) **Theme:** Education, Language and Development
Speaker: Prof. Harkishan Singh Mehta, Ex. Chairman (Education Group), Punjab
Administrative Reforms Commission, Chandigarh
Date: Feb 19, 2015 (on the eve of Mother Tongue Day)
- (iv) **Theme:** Innovations in Management (Shaping Young Minds)
Speakers (i) Dr. Pushpinder Singh Gill, Dean, School of Management, Punjabi
University, Patiala
(ii) Dr. B. B. Singla, School of Management, Punjabi University, Patiala
Date: 21 Feb., 2015
- (v) **Theme:** Financial Statement Analysis
Speaker: Dr. R. S. Arora, Dept. of Commerce, Punjabi University, Patiala
Date: 12 March, 2015
- (vi) **Theme:** Role of Books and Literature in the Personality Development of the
Students
Speaker: Dr. Dhanwant Kaur, Professor and Ex-head, Dept of Development
of Punjabi Language, Punjabi University, Patiala,
Date: 21 Aug, 2015
- (vii) **Theme:** Employment Opportunities (Under the Mass Counselling Programme)
Speaker: Major Harpreet Singh, Employment Generation and Training Officer, Punjabi
University, Patiala
Date: 28 Oct., 2015

3. Seminars/Conferences/Exhibition/Workshops/Science Fair/Lectures organized:

National: 02 (Two)

- (i) **Theme:** National Conference on Recent Advances in Chemical, Biological and Environmental
Sciences (RACES)
Inauguration: Dr. Parkash Gopalan, Director, Thapar University, Patiala
Keynote Address: Dr. Sushil Mittal, Dy. Director, Thapar University, Patiala
Chief Guest (Valedictory Session): Dr. Devinder Singh, Registrar, Punjabi University, Patiala
Main Speakers: (i) Dr. Anil Kumar Sharma, Mayo Clinic, Rochester, MN, USA
(ii) Dr. Subhash Chander Sahu, Panjab University, Chandigarh
(iii) Dr. Anil Kumar, M M University, Mullana
(iv) Dr. P. S. Panesar, SLIET, Longowal
(v) Dr. Ashok Kumar, Punjabi University, Patiala
(vi) Dr. Harsh Kumar Manchanda, NIT, Jalandhar
(vii) Dr. Ravi Bhushan, IIT, Roorkee
Dates: 30-31 Jan., 2015
- (ii) **Theme:** Leadership and Advocacy (National Level Workshop sponsored by RGNIYD, Chd)
Inauguration: Dr. Paramvir Singh, NSS Co-ordinator, Punjabi University, Patiala
Chief Guest: Mr. Stanzin Dawa, Project Director, Rajiv Gandhi National Institute of
Youth Development, Regional Centre, Chd.
Speakers: 1. Dr. S M Kant, Advisor, Youth Welfare, PTU, Jalandhar

2. Prof. Sharwan Kumar, M M Modi College, Patiala
 3. Dr. Rajeev Sharma, M M Modi College, Patiala
 4. Ms. Amanpreet Kaur, RGNIYD, Chandigarh
 5. Mr. Avinav Thakur, RGNIYD, Chandigarh
- (60 students and college teachers participated)

Dates: 25-31 May, 2015.

Regional : 07 (Seven)

- (i) **Theme:** Technoquest - A congregation of Technical Minds (A State level festival of technical education and IT)
Inauguration: Dr. Kanwaljit Singh, Director, University Computer Centre, Punjabi University, Patiala
Chief Guest (Valedictory Session): Dr. Kulbir Singh Dhillon, Dean, CDC, Punjabi University, Patiala
Date: 20 Feb., 2015
 (486 students from 11 educational institutions took part in seven technical events)
- (ii) **Theme:** Creations – 2015
 (An exhibition of apparels designed and prepared by the students of Fashion Designing Dept.)
Inauguration by: (i) Sh. S. K. Ahluwalia, Former Commissioner, Patiala Division, Patiala
 (ii) Prof. (Mrs.) Daisy Walia, Dept. of Dance, Punjabi University, Patiala
Date: 12 March, 2015
- (iii) **Theme:** Training of the Trainers on Life Skills (Workshop in Collaboration with Rajiv Gandhi National Institute of Youth Development, Regional Centre, Chandigarh)
Subject Experts: 1. Dr. Narinder Singh Kapoor, Prof. and Former Head, Journalism and Mass Communication, Punjabi University, Patiala
 2. Dr. Rajeev Sharma, M M Modi College, Patiala
 3. Ms. Amandeep Kaur, RGNIYD, Chandigarh
 4. Ms. Manjula, RGNIYD, Chandigarh
 5. Sh. Deepak Kumar, RGNIYD, Chandigarh
Dates: 8-14 July, 2015
- (iv) **Theme:** Three-day Orientation Programme for Entry-level Students
Speakers: Dr. Khushvinder Kumar (Principal) and Senior Faculty Members
Date: 22-24, July, 2015
- (v) **Theme:** Books Exhibition (by Publication Bureau, Punjabi University, Patiala)
Inauguration: Dr. Dhanwant Kaur, Prof. Incharge, Publication Bureau, Punjabi University, Patiala.
Date: 21 August, 2015
- (vi) **Theme:** National Programme for Control of Blindness
Inauguration: Dr. Rajeev Bhalla, Civil Surgeon, Patiala
Speakers: 1. Dr. Harish Malhotra, Assistant Civil Surgeon, Patiala
 2. Dr. Manpreet Walia, Eye-specialist
 3. Sh. Krishan Kumar, Mass Media Officer, Health Dept., Patiala
 4. Sh. Amarjit Sohi, Deputy Mass Media Officer, Health Dept., Patiala
 5. Sh. Hardeep Randhawa
Date: 4 Sept., 2015
- (vii) **Inter-Institutional Science Fair**
Theme: Science and Society
Inauguration: Dr. O. P. Jasuja, Dean, Physical Sciences, Punjabi University, Patiala
Guest of Honour: Prof. Symon, Dept of Forensic Science, Turtle University, Perth (Australia)

Guest of Honour (Valedictory Session): Dr. N S Attri, Additional Dean Research,
Punjabi University, Patiala

Date: 24 Oct., 2015

(More than 270 students from 20 schools and 7 colleges participated with their models and posters)

4. Conferences / Seminars / Workshops in which faculty members participated / presented papers:

(a) International: 16 (Sixteen)

Dr. Khushvinder Kumar (Principal)

Theme: Spirituality and Management (Chief Panelist)

Place: SGTB Khalsa College, Anandpur Sahib

Date: 27 Nov., 2015

Prof. Balvir Singh, Dr. Harcharan Singh, Dr. Gurdeep Singh and Dr. Manjit Kaur (Punjabi)

(i) **Theme:** ਗੀ ਕਪਿ ਗਕ; ਕ; ; ਕਫਿ ਸ ਨਸ/; ਵਕੀ ਢਕ ਫਟ; ਅਹ; ਓਗ

(31st International Punjabi Development Conference)

Place: Punjabi University, Patiala

Dates: 14 - 16 Jan., 2015

(ii) **Theme:** ਗੀ ਕਪਿ ਡਕ ਨੇ ਸ/ ਓਰ ਵੁਲ ਗਿਗਸਿਨਕ ਸ/; ਡਕ ਟਕ (ਫਟ; ਅ ਗੀ ਕਪਿ ; ਕਫਿ ਸ ਏਕ ਡਕ)

Place: Punjabi University, Patiala

Dates: 9 - 11 Dec., 2015

Dr. Ashwani Kumar Sharma (Botany)

Theme: Some interesting Species of Xylaria Hill ex Shrank from Eastern Himalayas (Oral Presentation)

Place: Asian Mycological Congress held at Goa University, Panji

Date: 7-10 Oct., 2015

Dr. Rajeev Sharma (Chemistry)

Theme: Emerging Areas of Mathematics for Science and Technology

Place: Punjabi University, Patiala

Dates: 30 Jan - 1st Feb. 2015.

Dr. Neeraj Goyal (Business Management)

Theme: Role of Value Education for Students

Place: SGTB Khalsa College, Sri Anandpur Sahib

Dates: 27-28 Nov., 2015

Dr. Ajit Kumar (Computer Science)

(i) **Theme:** Transliteration System: Punjabi to English

Place: Third Regional International Conference on National Language Processing (Reg Con-2015), Punjabi University, Patiala

Dates: 18-19 Sept., 2015

(ii) **Theme:** Statistical Post Editing System (SPES) Applied to Hindi-Punjabi PB-SMT System

Place: Punjabi University, Patiala

Dates: 18-19 Sept., 2015

Prof. Sukhdev Singh (Computer Science)

Theme: Web services in e-Government Perspective

Place: Bhai Gurdas Institute of Engineering and Technology, Sangrur

Dates: 20-21 March, 2015

Dr. Kuldeep Kumar (Biotechnology)

Theme: Potentiometric Biosensor for Asparagines Detection

Place: 4th International Conference and Exhibition of Biosensors and Bioelectronics at Atlanta, USA.

Date: 28-30 Sept., 2015

Dr. Deepika Singla (Commerce)

Theme: Spirituality and Management

Place: SGTB Khalsa College, Anandpur Sahib

Dates: 27-28 Nov., 2015

Prof. Parminder Kaur (Commerce)

Theme: Moral Value Education - the Need of the Hour

Place: SGTB Khalsa College, Anandpur Sahib

Dates: 27-28 Nov. 2015

Dr. Varun Jain (Mathematics)

(i) Theme: *GCR-lightlike submanifold of indefinite S-manifolds*

Place: Punjabi University, Patiala

Dates: 30 Jan. - 1 Feb., 2015

(ii) Theme: Integrability of GCR-lightlike submanifolds of indefinite Kaehler manifolds

Place: Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir

Dates: 8-9 October, 2015

(iii) Theme: *Lightlike submanifolds of indefinite Trans-Sasakian manifolds*

Place: NIT, Nagpur, India

Dates: 27-30 Nov., 2015

(iv) Theme: *Radical Transversal lightlike submanifolds of indefinite Kaehler manifolds*

Place: University of Allahabad, Allahabad

Dates: 22-24 December, 2015

National: 55 (Fifty Five)

Dr. Khushvinder Kumar (Principal)

(i) Theme: Innovative Practices: Scope in a two-year B.Ed. Programme (Theme Paper)

Place: Ramgarhia College of Education, Phagwara

Date: 4 March, 2015

(ii) Theme: Higher Education Reforms: Path of Quality by RUSA (RC-Education)

Place: UGC-ASC, Gauhati University, Gauhati

Date: 7 March, 2015

(iii) Theme: Analysis of Justice Verma Commission Report on Teacher Education (OP-98)

Place: UGC-ASC, Gauhati University, Gauhati

Date: 8 March, 2015

(iv) Theme: Recent Education Commission Reports and Thereafter (OP-98)

Place: UGC-ASC, Gauhati University, Gauhati

Date: 8 March, 2015

(v) Theme: Chaos in Education: Emerging Challenge for All (Key Note Address at ICSSR Seminar)

Place: Doraha College of Education, Doraha

Date: 27 March, 2015

(vi) Theme: Post NCTE Regulation - 2014 Scenario of Teacher Education in Punjab (CTE National Conferenece) (Theme Paper)

Place: Jyotika Fule College of Education, Nagpur

Date: 25 June, 2015

(vii) Theme: Skill Development in Higher Education (Chief Panelist)

Place: A.S. College, Khanna

Date: 22 Aug., 2015

(viii) Theme: Issues and Challenges for Quality Teacher Education in Perspective of NCTE Regulation - 2014

Place: Nalanda College of Education, Dehradun (Chaired the session)

Date: 4 Oct., 2015

(ix) Theme: A Report on Outcomes of Brainstorming Session of CTE (Punjab and Chandigarh Chapter)

Place: Nalanda College of Education, Dehradun

Date: 31st Oct., 2015

(x) Theme: Promoting Teachers and Administratives as Researchers (organised by Skylark Education Experts and CTE)

Place: Amritsar

Date: 26 Nov., 2015

(xi) Theme: Mathematics Education (Chief Panelist)

Place: DAV College of Education, Nawanshahar

Date: 21 Nov., 2015

Prof. Balvir Singh, Dr. Harcharan Singh, Dr. Gurdeep Singh and Dr. Manjit Kaur (Punjabi)

Theme: 8th All India Punjabi Conference (ਗੁਰਮੁਖੀ ; ਓਟ ਗੁਰਮੁਖੀ ਕੌਮੀ ਕੌਮੀ ਕੌਮੀ)

Place: Punjabi University, Patiala

Dates: 30 April – 1 May, 2015

Dr. Ashwani Sharma (Botany)

Theme: Three New Species of *Dalmanella* C. and de Not from Eastern Himalayas

Place: M M Modi College, Patiala

Date: 30-31 Jan., 2015

Dr. Rajeev Sharma (Chemistry)

- (i) **Theme:** A Study to Analyze Personality Traits in Career Selection
Place: A.S. College of Education, Khanna
Date: 11 Feb. 2015
- (ii) **Theme:** Influence of Media and Technology on Adolescents' Development
Place: A.S. College of Education, Khanna
Date: 11 Feb. 2015
- (iii) **Theme:** Recent Advancement and Developments in Chemical Sciences
Place: DAV College, Abohar (Session Chaired)
Date: 19 Feb., 2015
- (iv) **Theme:** Green Photodegradation of imidazole insecticide by Sodium Titanate Nano tubes
Place: GHG Khalsa College, Gurusar Sudhar (Ludhiana)
Dates: 25-26 March, 2015 (Chaired the session)
- (v) **Theme:** Gender Mainstream (Workshop)
Place: Rajiv Gandhi National Institute of Youth Development, Chandigarh
Date: 24-29 April, 2015
- (vi) **Theme:** Biofuel Cells
Place: University of Petroleum and Energy Studies, Dehradun (UK).
Dates: 12-13 June, 2015.
- (vii) **Theme:** Glossary of Pharmacology (Workshop by CIIL – Mysore)
Place: Punjabi University, Patiala
Date: 11-18 Sept., 2015
- (viii) **Theme:** How to Write a Scientific Paper?
Place: DAV College of Education, Hoshiarpur
Date: 24 Dec., 2015
- (ix) **Theme:** Plagiarism : How to Avoid it (Annual Conference of ICCR)
Place: DAV College of Education, Hoshiarpur
Date: 24 Dec., 2015

Dr. Neeraj Goyal (Business Management)

(i) Theme: Environment Audit – A Look into Indian Corporate Sector

Place: M M Modi College, Patiala

Dates: 30-31 January 2015

(ii) Theme: IAS/IFRS Framework for Sustainability Reporting

Place: Kamla Lohtia S.D. College, Ludhiana

- Dates:** 14 February, 2015
- (iii) **Theme:** Analysis of Consumer Behaviour for Online Shopping
Place: SCD Government College, Ludhiana
Date: 24 February, 2015
- (iv) **Theme:** Effects of International Reporting Standards on Sustainability Reporting
Place: Chandigarh Group of Colleges, Jhanjeri (Mohali)
Date: 27 March, 2015
- (v) **Theme:** Linear Programming – An Important Tool For Financial Decision Making
Place: M M University, Mullana (Ambala)
Dates: 30 March, 2015
- (vi) **Theme:** Corporate Social Responsibility of Business – A Case Study of ONGC
Place: M M University, Mullana (Ambala)
Dates: 31 March, 2015
- (vii) **Theme:** Environmental Audit – Are We Moving in Right Direction?
Place: Guru Kashi University, Talwandi Sabo, Bathinda
Dates: 25-26 April, 2015
- (viii) **Theme:** Copyrights – Protection is Key for Future Developments
Place: M M University, Mullana (Ambala)
Dates: 25-26 April, 2015
- (ix) **Theme:** Developing Employability Skills in Higher Education
Place: A S College, Khanna
Date: 22 August 2015
- (x) **Theme:** Research Ethics in Management Education
Place: DAV College of Education, Hoshiarpur
Dates: 24 December, 2015

Dr. Kuldeep Kumar (Biotechnology)

- (i) **Theme:** Impacts of Genetically Modified Crops
Place: DAV College, Jalandhar
Date: 28 Feb., 2015
- (ii) **Theme:** Nutraceuticals in Cancer
Place: DAV College, Jalandhar
Date: 28 Feb., 2015

Prof. Sumeet Kumar (Computer Science)

- (i) **Theme:** Green Computing
Place: M M Modi College, Patiala
Dates: 30-31 Jan., 2015
- (ii) **Theme:** E-Wastage
Place: Kamla Lohtia S.D College, Ludhiana
Date: 14 Feb., 2015
- (iii) **Theme:** Green Computing-Lets Not Make Technology A Curse
Place: SCD Govt. College, Ludhiana
Date: 24th Feb., 2015
- (iv) **Theme:** Wireless Communication
Place: Chitkara University, Rajpura
Date: 21st March, 2015
- (v) **Theme:** Consumer Perception Towards Increasing Trend of Online Shopping
Place: Chandigarh Group of Colleges, Jhanjeri (Mohali)
Date: 27th March, 2015
- (vi) **Theme:** Solution of Linear Equations in Fuzzy Environment
Place: M M University, Mullana (Ambala)
Date: 30 March, 2016

- (vii) **Theme:** Copyright Issues
Place: M M University, Mullana (Ambala)
Date: 26 April, 2015
- (viii) **Theme:** IT-Powerful Tool in Skill Development of the Country
Place: A.S College, Khanna
Date: 22nd Aug., 2015 (In Absentia)
- (ix) **Theme:** M.S Excel-Powerful Tool for Research Analysis
Place: DAV College of Education, Hoshiarpur
Date: 24th Dec., 2015

Prof. Rohit Sachdeva (Computer Science)

- (i) **Theme:** Green Computing Field to Develop Eco-Friendly IT
Place: M M Modi College, Patiala
Dates: 30-31 Jan., 2015
- (ii) **Theme:** E-Wastage: A Big Challenge to Environmental Protection
Place: Kamla Lohtia S.D. College, Ludhiana
Date: 14 Feb., 2015
- (iii) **Theme:** Analysis of Consumer Behaviour for Online Shopping
Place: SCD Government College, Ludhiana
Date: 24 Feb., 2015
- (iv) **Theme:** Issues in Word Segmentation of Handwritten Text in Devnagari Script
Place: University of Kashmir, Srinagar
Date: 16 - 17 March, 2015
- (v) **Theme:** Consumer Perception Towards Increasing Trends of Online Shopping
Place: Chandigarh Group of Colleges, Jhanjeri (Mohali)
Date: 27 March, 2015
- (vi) **Theme:** Innovative Uses of Excel in Linear Algebra
Place: M M University, Mullana (Ambala)
Date: 30 March, 2015
- (vii) **Theme:** Women Empowerment through E-Governance
Place: M M University, Mullana (Ambala)
Date: 31 March, 2015
- (viii) **Theme:** Copyrights – Protection is Key for Future Developments
Place: M M University, Mullana (Ambala)
Dates: 25-26 April, 2015
- (ix) **Theme:** Information Technology- Powerful Tool in Skill Development of the Country
Place: A S College, Khanna
Date: 22 Aug., 2015
- (x) **Theme:** MS Excel- Powerful Tool for Research Analysis
Place: DAV College of Education, Hoshiarpur
Date: 24 Dec., 2015

Mrs. Parminder Kaur (Commerce)

Theme: Mobile Commerce in Rural India
Place: Chandigarh University, Gharuan (Punjab)
Dates: 24 Nov. 2015

Dr. Varun Jain (Mathematics)

Theme: *Geometry of GCR-lightlike Submanifolds*
Place: Department of Applied Science, Chandigarh University, Gharuan
Dates: 28-29 October, 2015

Regional: 06 (Six)

Dr. Khushvinder Kumar (Principal)

- (i) Theme: Pythagoras and his Works (DST Inspire Programme)
Place: GHG Khalsa College, Gurusar Sadhar (Ludhiana)
Date: 3 January, 2015
- (ii) Theme: School Education: Universalization and Quality Concerns (Theme Paper)
Place: SGTB College of Education, Sehke (Sangrur)
Date: 9 March, 2015
- (iii) Theme: Mathematics and Mysticism (DST Inspire Programme)
Place: ISF College of Pharmacy, Moga
Date: 27 Sept. 2015
- (iv) Theme: Structure of Mathematics (DST Inspire Programme)
Place: IFS College of Pharmacy, Moga
Date: 5 Nov., 2015

Dr. Rajeev Sharma (Chemistry)

- (i) Theme: Some Improvements Needed in Higher Education in India
Place: Mata Sahib Kaur Khalsa College of Education, Patiala
Date: 3 March, 2015
- (ii) Theme: Training of Trainers on Employability Skills through Life Skills (Workshop)
Place: Asian Educational Institute, Patiala
Dates: 25 June – 1st July, 2015

5. Refresher Courses/FDP organized by the College: 02 (Two)

(i) Theme: Language Software – Snet Communications

(Faculty Development Programme in Collaboration with Focus Technology, New Delhi)

Date: 11-13 March, 2015

(ii) Theme: UGC Sponsored 7-day Faculty Development Programme

Main Speakers: 1. Dr. S. S. Dhillon, Former Dean, Academic Affairs, Punjabi University, Patiala

2. Dr. Narinder Singh Kapoor, Former Professor and Head, Department of Journalism and Mass Communication, Punjabi University, Patiala

3. Dr. Ashwani Kumar Bhalla, Govt. College, Ludhiana.

4. Dr. Dalip Kumar, Govt. College, Sector 42, Chandigarh

Date: 10-16 July, 2015 (All the teachers participated in this FDP).

6. Refresher Courses/Orientation Courses attended by the faculty: NIL

7. Research and Publication Work:

(a) **Institutional:** (i) College Magazine 'The Luminary' edited by Mrs. Baljinder Kaur was released by Dr. Indu Malhotra, Commissioner, Municipal Corporation, Patiala on 25 January, 2015.

(ii) An Abstract Book was released on the occasion of 'National Conference on Recent Advances in Chemical, Biological and Environmental Sciences' on 30th January, 2015.

(b) **Faculty:**

Dr. Khushvinder Kumar (Principal) got published following two papers:

(i) 'Concept Mapping – An Appraisal', GHG Journal of Sixth Thought. 2348-9936, Vol. 2 No. 1, March, 2015

(ii) 'Effectiveness of Co-operative learning on Critical Thinking - Dispositions of Secondary School Students, Issues and Ideas in Education, 2320-7655, Vol. 1, No. 3, March, 2015.

Dr. Ashwani Sharma got published a paper "Taxonomic notes of two Species of Kretzschmaria from Eastern Himalayas' *Kavaka*: 44 p 66-68.

Dr. Rajeev Sharma got published the following papers:

(i) 'Anti Bacterial Activity of Terminalia Chebula Fruit by Agar Well Diffusion method in the Journal of Chemistry, Environmental Sciences and its Applications, Vol. 1 (2), March, 2015, 67-72.

(ii) 'Study and Evaluation of Ground Water Quality of Malwa Region, Punjab (North India) in the Journal of Chemistry, Environmental Sciences and its applications 2(1) Sept. 2015, 41-58.

- (iii) He also got two chapters 'Influence of Media and Technology on Adolescents Development', P 77-81 and 'A Study to Analyse Personality Traits in Career Selection', Chapter 48, P 237-241 published in the book 'Technology, Modernization and Transitional Society: A Challenging Era for Adolescents' published by 21st Century Publication ISBN 978-81-89463-48-9 Date.
- (iv) He is on the editorial board of:
'Journal of Chemistry, Environmental Sciences and its Applications' Chitkara University, Rajpura and 'Current Trends in Biological and Chemical Research', M M University, Mullana.
- (v) He also got published a book '957238-257957', 21st Century Publication ISBN 978-93-85446-32-0.

Dr. Neeraj Goyal got published the following books in 2015:

- (i) Business Economics – I, R.D. Publications, ISBN 978-93-84594-34-3.
- (ii) Principles of Economics-I, R.D. Publications, ISBN 978-93-84594-33-6.
- (iii) Financial Management-I, R.D. Publications, ISBN 978-93-84594-13-8.
- (iv) Computer Based Accounting System, Sharma Publications, Jalandhar, ISBN 978-93-84367-88-6.
- (v) Cost Accounting-I, R. D.Publications, ISBN 978-93-84594-14-5.

Dr. Ajit Kumar got published the following papers:

- (i) **A Survey of Spell Checkers available for Hindi and Punjabi**
- (ii) **Sentiment Analysis of Views Written in Gurmukhi Script** in the proceedings of International Conference of Advances in Computers, Communication and Electronic Engineering (COMMUNE-2015) held in the University of Kashmir, Srinagar, India from 16-18 March 2015.
- (iii) **Statistical Post Editing System (SPES) Applied to Hindi-Punjabi PB-SMT System** in the **Indian Journal of Science & Technology** Vol8, Issue 27 Oct, 2015. Impact factor 1.05

Prof. Ganesh Kumar Sethi and Prof. Harmohan Sharma (Computer Science) got published a book 'Mathematical Foundations of Computer Science', Sharma Publications, Jalandhar, ISBN 978-93-5181-036-0.

Prof. Sukhdev Singh (Computer Science) got published following papers:

- (i) Web services: An E-government perspective in International Journal of Computer Applications (IJCA) Proceedings ISBN: 978-81-924893-0-8.
- (ii) Despacing of Renal Calculi in Ultra Sound Images in International Research Journal of Engineering and Technology. e-ISSN: 2395-0056 P-ISSN: 2395-0072 Aug. 2015.

Dr. Meenu (Chemistry) got published the following papers as a co-author:

- (i) In situ reductive regeneration of zerovalent iron nanoparticles immobilized on cellulose for atom efficient Cr (vi) absorption. RSC Advances, 5(109), 89441-89446. **(Thomson Reuter Impact Factor = 3.84)**
- (ii) Synthesis, Crystal Structure Determination of Two-Dimensional Supramolecular Coordination Polymer of Silver(I) with 1,2-Bis(phenylthio)ethane and its Hirshfeld Surface Analysis, Journal of Chemical Sciences 127: 849-856 (Thomson Reuter Impact Factor = 1.191).

Dr. Deepika Singla: One JRF joined the college for pursuing research work for Ph.D. under her supervision.

Prof. Chetna Gupta got published the following books:

- (i) Mathematical Analysis, Sharma Publications, Jalandhar, ISBN-978-93-5181-054-4
- (ii) Analysis – I, Sharma Publications, Jalandhar, ISBN – 978-93-82-704-17-1.
- (iii) Analysis – II, Sharma Publications, Jalandhar, ISBN – 978-93-5181-064-3
- (iv) Partial Differential Equations, Sharma Publications, Jalandhar. ISBN 978-93-81-261-96-5.

8. Academic achievements

(a) Staff: The following teachers received their degrees of PhD:

- (1) Sh. Neeraj Goyal (Business Management)
- (2) Sh. Ajit Kumar (Computer Science)
- (3) Sh. Varun Jain (Mathematics)
- (ii) Dr. Harcharan Singh (Punjabi) edited a text book of Poetry (ekft^or) for the under graduate courses of Punjabi University, Patiala

(iii) Dr. Manjit Kaur (Punjabi) edited a text book of Punjabi short stories (eEk^tkosk) for the under graduate courses of Punjabi University, Patiala.

(iv) The following members of the faculty performed their duties as members of the Board of Studies/Faculty of the Punjabi University, Patiala:

- 1) Prof Nirmal Singh (Business Management)
- 2) Prof Sharwan Kumar (Business Management)
- 3) Prof Balvir Singh (Punjabi)
- 4) Dr Harcharan Singh (Punjabi)
- 5) Dr Manjit Kaur (Punjabi)
- 6) Dr Ashwani Sharma (Life Sciences)
- 7) Dr Rajeev Sharma (Physical Sciences)
- 8) Prof Vinay Garg (Computer Science)
- 9) Dr Ajit Kumar (Computer Science and Physical Sciences)

(b) Our students bagged the following merit positions in the University Examinations (2014-15):

Sr. No.	Name	Class	Merit Position
1.	Jasleen Kaur	MCom	1 st
2.	Khushboo Singh	MSc (Fashion Design and Tech) - II	1 st
3.	Lovepreet Kaur Kler	MSc (Fashion Design and Tech) – I	1 st
4.	Dinesh Singla	MSc (Pharmaceutical Chemistry) – I	1 st
5.	Jaspreet Kaur	BSc (Biotechnology) – III	1 st
6.	Kiran	BSc (Bioinformatics)	1 st
7.	Kamaljeet Kaur	BSc (Bioinformatics) – I	1 st
8.	Neha Rani	BSc (Fashion Technology) – II	1 st
9.	Kirti	BSc (Fashion Technology) – I	1 st
10.	Navneet Kaur	MSc (Fashion Design and Tech) – II	2 nd
11.	Mitu Bhatia	MSc (Pharmaceutical Chemistry) – I	2 nd
12.	Rajni	MSc (Pharmaceutical Chemistry) – I	2 nd
13.	Sandeep Kaur	BSc (Fashion Technology) – II	2 nd
14.	Reetu Bala	MSc (Fashion Design and Tech) – I	3 rd
15.	Harsimran Kaur	MSc (Information Technology) – I	3 rd
16.	Divisha Sharma	BCA-III	3 rd
17.	Mehak Taneja	BSc (Fashion Technology) – II	3 rd
18.	Poulomi Chandra	BSc (Biotechnology) – I	3 rd
19.	Nancy Verma	BSc (Fashion Technology) – I	3 rd
20.	Kushpreet Kaur	MSc (Fashion Design and Tech) – I	4 th
21.	Rithampreet Kaur	BSc (Biotechnology) – II	4 th
22.	Noreen Ali	MCom	5 th
23.	Warpreet Kaur	BBA-II	6 th

24.	Chhavi Singla	BBA-III	7 th
25.	Shaffy	BCom-II (Professional)	7 th
26.	Ankita Garg	BCom-III (Professional)	9 th
27.	Alisha	BCA-II	9 th
28.	Preetmohan Kaur	BCom-III (Professional)	10 th

9. SPORTS

(a) International: 04 (Four)

- (i) Jyotika Dutta (Fencing) won the Silver Medal at Junior Commonwealth Fencing Championship held in Cape Town (South Africa). She also participated in South Asian Fencing Championship held in Mongolia during 7 - 12 Sept. 2015.
- (ii) Sachin Singh Rawat (Judo) won Silver Medal at the 16th Junior Asian and 9th Cadet Judo Championship held in Bangkok (Thailand) during 9 - 12 Oct. 2015
- (iii) Baby Verma (Fencing) participated in the World Fencing Championship held at Moscow (Russia) during 13 - 19 July 2015.
- (iv) Ronit Singh Bisht (Tennis) participated in the World University Games held in South Korea during 1-15 July, 2015.

(b) National / All India Inter University: 47 (Forty Seven)

Sr. No.	Name of the Student	Position	Game
1	Gurkirat Singh	1 Gold Medal	Athletics (4x400 m Relay)
2	Mohit Kumar	1Gold Medal (Individual)	Power-lifting
3	Reetpal Singh	1 Gold Medal (Team)	Air Pistol Shooting
4	Neelam Rani	1 Gold Medal (Team), 2 Silver Medal and 2 Bronze Medal (Individual)	Fencing (2014-15)
5	Pawandeep Kaur	1 Gold Medal (Team), 3 Bronze Medal (Individual)	Fencing
6	Jyotika Dutta	1 Gold Medal (Team), 1 Silver Medal and 1 Bronze Medal (Individual).	Fencing (2014-15)
7	Sonalika Kaushal	1 Gold Medal (Team)	Fencing
8	Harpreet Kaur	1 Gold Medal (Team)	Fencing
9	Amit Sharma	1 Gold Medal (Team) and 1 Bronze Medal (Individual)	Fencing
10	Sarita	2 Gold Medal (Team)	Tug of War
11	Lovejot Singh	1 Gold Medal (Team)	Archery
12	Rajbeer Singh	1 Gold Medal (Team)	Cycling
13	Prabhdeep Singh	1 Gold Medal (Team)	Cycling
14	Priyanka Rani	1 Gold Medal (Team), 1Silver and 1 Bronze Medal (Team)	Cycling (2014-15)
15	Rajbeer Singh	1 Gold Medal (Individual). 3 Gold Medal (Team) 2 Silver Medal and 2 Bronze Medal (Team)	Cycling
16	Mohit Kumar	3 Gold Medal (Team), 1Silver and 1 Bronze Medal (Team)	Cycling
17	Kumar Gaurav	2 Gold Medal (Team) 1 Silver Medal (Individual).	Cycling
18	Jagjit Kaur	1 Gold Medal and 2 Silver Medal (Team)	Cycling
19	Priyanka Rani	1 Gold Medal (Individual). 4 Silver Medal (Team)	Cycling (2015-16)
20	Gaganvir Singh	2 Gold and 1 Silver Medal (Team)	Cycling
21	Harjinder Kaur	2 Gold Medal (Team)	Tug of war
22	Gulshan Kumar	1 Gold Medal (Individual)	Taekwondo

23	Chetan Singh	1 Gold Medal (Team)	American Football (2015-16)
24	Jarmanjit Singh	1 Gold Medal (Team)	American Football (2015-16)
25	Abhi Sharma	1 Gold Medal (Team)	American Football (2015-16)
26	Paramjeet	1 Gold Medal, 1 Silver Medal (Individual)	Taekwondo
27	Jyotika Dutta	1 Gold Medal (Individual), 2 Silver Medal (Team)	Fencing (2015-16)
28	Nikhil Arora	1 Silver Medal (Individual)	Athletics (800 m)
29	Neelam Rani	1 Silver Medal (Team), 1 Bronze Medal (Individual).	Fencing (2015-16)
30	Jetinder Singh	1 Silver Medal (Individual).	Boxing
31	Amarwant Singh	1 Silver Medal (Team)	Football
32	Anmolpreet Singh	1 Silver Medal (Team)	Cricket
33	Arashdeep Singh Virk	1 Silver Medal	Athletics (4x400 m Relay)
34	Amit Sharma	2 Silver Medal (Team) 1 Bronze (Individual)	Fencing
35	Mandeep Inder Bawa	1 Silver Medal (Team)	Cricket
36	Anmol Malhotra	1 Silver Medal (Team)	Cricket
37	Sanvir Singh	1 Silver Medal (Team)	Cricket
38	Chetan Singh	1 Silver Medal (Team)	American Football (2014-15)
39	Dilpreert Singh	1 Silver Medal (Team)	American Football (2014-15)
40	Jarmanjit Singh	1 Silver Medal (Team)	American Football (2014-15)
41	Varun Attri	1 Silver Medal (Team)	American Football (2014-15)
42	Manik Sharma	1 Silver Medal (Individual)	Taekwondo
43	Sadish Kumar	1 Silver Medal (Individual)	Boxing
44	Shvinder Kaur Sidhu	1 Bronze Medal (Individual)	Boxing
45	Neeraj Bala	1 Bronze Medal (Individual)	Boxing
46	Navdeep Kaur	1 Bronze (Individual)	Judo
47	Jappanjot Singh	1 Bronze (Team) and 2 Bronze (Individual)	Fencing

(c) The College won Punjabi University Inter College Championships: 23 (Twenty Three)

- | | |
|-----------------------------|-----------------------------------|
| 1 Taekwondo (Women) 2014-15 | 13 Greco (Men) |
| 2 Fencing (Women) 2014-15 | 14 Judo (Women) |
| 3 Judo (Men) 2014-15 | 15 Weight Lifting (Men) |
| 4 Judo (Women) 2014-15 | 16 Pistol Shooting (Women) |
| 5 Gatka (Women) 2014-15 | 17 Rifle Shooting (Women) |
| 6 Tennis (Men) | 18 Best Physique |
| 7 Cycling - Road (Men) | 19 Rifle Shooting (Men) |
| 8 Table Tennis (Men) | 20 Pistol Shooting (Men) |
| 9 Gymnastics (Women) | 21 Fencing - EPPY (Women) |
| 10 Cricket (Men) | 22 Fencing - EPPY (Men) |
| 11 Cycling - Track (Men) | 23 Archery - Indian Round (Women) |
| 12 Cycling - Track (Women) | |

(d) The college got Runners-up positions at the Punjabi University Inter College Championships: 12 (Twelve)

- | | |
|------------------------------------|----------------------------|
| 1. Fencing - Foil (Men) 2014-2015 | 7. Swimming (Men) |
| 2. Fencing - Saber (Men) 2014-2015 | 8. Judo (Men) |
| 3. Taekwondo (Men) 2014-15 | 9. Power Lifting (Men) |
| 4. Tennis (Women) | 10. Fencing - Foil (Men) |
| 5. Fencing - Foil (Women) | 11. Boxing (Women) |
| 6. Boxing (Men) | 12. Cycling - Road (Women) |

(e) 2nd Runners up positions at the Punjabi University Inter College Championships: 4 (Four)

- | | |
|----------------------------|--------------------------|
| 1. American Football (Men) | 3. Fencing - Saber (Men) |
| 2. Fencing - Saber (Women) | 4. Squash Racket (Men) |

(f) The College organized:

- (i) Punjabi University Inter College Tennis (Women) Championship on 12-13 Sept, 2015.
- (ii) Punjabi University Inter College Tennis (Men) Championship on 12-13 Oct., 2015.

10. Co-curricular Activities:

(a) National : 03 (Three)

- (i) Ms. Trisha got 2nd and Ms Jaya Kaushik got 3rd position at the All India Essay Writing Event-2015 conducted by UN Information Centre for India and Bhutan and Shri Ram Chandra Mission, New Delhi.
- (ii) Ishnoor Singh Ghuman got 3rd position at the Thapar Model United Nations Debate Competition held at Thapar University, Patiala on 14-15 Feb., 2015.

(b) State Level: 02 (Two)

State-Level Inter University Competitions held at S. N. College, Banga, Punjab on 29-30 Jan., 2015.

- (i) Suraj Sharma participated in Poetry Recitation
- (ii) Amandeep Kaur participated in Paranda Making.

(c) University: 03 (Three)

Positions at Inter Zonal Youth Festival held at Punjabi University, Patiala (16-18 Nov., 2015).

- (i) Ishnoor Singh Ghuman – 1st in Debate.
- (ii) Gurnavdeep Singh – 3rd in Mimicry
- (iii) Manpreet Singh – 4th in Clay Modeling

(d) Positions at Zonal Youth Festival held at Govt. Mohindra College, Patiala (14 – 16 Oct., 2015)

Individual Events: 06 (Six)

- (i) Ishnoor Singh Ghuman – 1st in Debate
- (ii) Gurnavdeep Singh – 1st in Mimicry
- (iii) Manpreet Singh – 2nd in Clay Modelling
- (iv) Gautam Bagga – 3rd in Folk Song.
- (v) Pankaj Jain – 3rd in Western Solo Song.
- (vi) Simranjit Kaur – 4th in Rangoli

Team Events: 04 (Four)

- (i) Western Group Song – 3rd
- (ii) Skit – 3rd
- (iii) Mime – 3rd
- (iv) Bhangra – 4th

(v) Inter College Competitions: 09 (Nine)

- (i) Ishnoor Singh Ghuman bagged 1st position in Declamation Contest on National Voters' Day held at Khalsa College, Patiala on 25th Jan. 2015.
- (ii) Positions at Technoquest Competitions held at M M Modi College, Patiala on 20 Feb., 2015:
 - a. Business Quiz Team – 1st Position
 - b. IT Quiz Team – 1st Position
 - c. Ad Mad Show Team – 2nd position
 - d. Palak – 1st in Test Your Knowledge in 'C' Programming.
 - e. Prikshita and Jitanshu – 1st in Web Designing
 - f. Twinkle Dhawan – 2nd in Poster Making
 - g. Ishnoor Singh Ghuman – 3rd in Paper Presentation
- (iii) Nukad Natak Team of the College bagged 1st position at **Saturnalia Fest** held at Thapar University, Patiala on 31st Oct., 2015.

(f) Talent Hunt Competition – 2015 was inaugurated by S. Daljit Singh Rana, S. P. (City), Patiala on Sept. 23, 2015. S. Hardeep Singh Badungar, Traffic Incharge, Patiala was the Guest of Honour.

About 120 students took part in Debate, Elocution, Poetry Recitation, Quiz, Music, Fine Arts, Dances and Theatre item contests.

11. NSS:

- (i) Blood Donation Camp: 1 (One)
Date: 12 August, 2015 Blood Donated : 73 Units
- (ii) 7-day NSS Camp organized : 01 (One)
25 Sept to 1 Oct., 2015
- (iii) More than 100 volunteers participated in the 26th National Road Safety Week drive organized by Dist. Traffic Education Cell, Punjab Police, Patiala during 11-17th Jan. 2015
- (iv) National Youth Day was celebrated by organizing a State Level 'Swami Vivekananda Youth Awards Presentation Ceremony' on 12th Jan., 2015. 22 volunteers were honoured by Swami Vivekananda Study Circle.
- (v) World Environment Day was celebrated in collaboration with Dainik Bhaskar under the Panchhi Bachao Abhiyaan on June 12, 2015.
- (vi) 9 volunteers attended the National Youth Red Cross Camp at Mansa Devi Temple, Panchkula during 16-22 Sept., 2015.
- (vii) NSS Volunteer Manish Singh participated in the 'Training of the Trainers on Youth Leadership' through Adventure Sports at Atal Behari Vajpayee Institute of Mountaineering and Allied Sports, Manali (HP) during 29 Oct. – 7 Nov. 2015.

12. N.C.C. - Army Wing (Boys)

- (i) 10-day Yoga Training Camp was organized in connection with International Yoga Day on 21st June, 2015. 55 cadets participated in the final day programme at Khalsa College, Patiala.
- (ii) Seven Cadets attended the CAT Camp at NCC Academy, Ropar during 23 June – 1st July, 2015.
- (iii) Four Cadets participated in the Independence Day Parade at YPS Stadium, Patiala.
- (iv) 10 Cadets attended Annual Training Camp at Ropar during 27 Sept. – 7 Oct. 2015.
- (v) Cadets Harman Preet Singh, Harpreet Singh, Khushpreet Singh and Chamkaur Singh along with Capt. V. P. Sharma participated in Gaya Tracking during 22 Nov. – 2nd Dec. 2015.
- (vi) Four Cadets attended training classes during the Disaster Management Week held at Govt. Bikram College of Commerce, Patiala in Nov. 2015.
- (vii) Cadet Ishnoor Singh Ghuman got 1st position in Elocution organized by 5 PB BN. at ITI, Patiala on 8 Dec., 2015.
- (viii) Cadets Bhupinder Singh, Ishnoor Ghuman, Garry Sharma and Parwinder Singh donated blood at a camp held at ITI (Boys) Patiala on 2 Nov., 2015.
- (ix) 15 Cadets passed NCC 'B' Certificate Examination.

NCC - Army Wing (Girls)

- (i) 10 Cadets attended AT Camp – 98 at NCC Academy, Ropar during 27 July – 5 Aug, 2015. The College Team got 1st position in Group Song. Cadet Bhavika was 1st in Shooting Competition.
- (ii) 6 Cadets attended the AT Camp-108 at Govt. College for Girls, Patiala during 25 Sept. – 4 Oct., 2015.
- (iii) Cadet Manpreet Kaur got 1st position in Piloting and Table Drill at GCG, Patiala Camp.
- (iv) The Cadets organized Cancer Awareness Day on 7 Nov., 2015.
- (v) 7 Cadets passed NCC 'B' Certificate Examination.

13. Other Activities

- (i) Dr. Khushvinder Kumar (Principal) visited three educational institutions (in the state of M.P. 16-18 March, 2015; in Haryana 6-7 April, 2015 and in Rajasthan 25-27 May, 2015) as a Member of the NAAC Peer Team for the Assessment and Accreditation of the institutions.
- (ii) **Convocation – 2015** was held on March 27, 2015. Dr. Jaspal Singh, VC, Punjabi University, Patiala delivered the Convocation Address and conferred degrees on 541 Graduates and Post Graduates.

- (iii) **Annual Prize Distribution Function 2015** was organized on April 19, 2015. S. Surjit Singh Rakhra, Hon'ble Minister for Higher Education and Languages, Punjab conferred Roll of Honour on 37 students, College Colour to 124 students and Merit Certificates to 288 students for their commendable achievements in academics, sports and co-curricular activities.
- (iv) **Career Guidance and Placement Cell** of the College conducts placement oriented programs regularly. 61 students were selected/short-listed by different companies during the year.
- (v) **NAAC Peer Team** visited the college during 15-18 March, 2015 for the Assessment and Re-accreditation of the college. The college was reaccredited by the NAAC (Bangaluru) with Grade 'A' and CGPA of 3.26 in May, 2015.
- (vi) A street play **Akhir Kadon Tak** on the theme of Awareness about the Menace of Drug Addiction was enacted by the students of Theatre and TV Dept of Punjabi University, Patiala on 5th August, 2015.
- (vii) Dr. SP Singh Oberoi, founder of **Sarbat Da Bhalla** Charitable Trust handed over scholarships worth Rs. 3,37,425/- to the needy and meritorious students of the college at a function organised in the College on Sept. 15, 2015.
- (viii) **Modi Jayanti** was celebrated on 21 Oct., 2015 on the occasion of 140th Birth Anniversary of Rai Bahadur Seth Multani Mal Modi. Week-long celebrations, including Essay Writing Contest, Science Fair and Havan Yajna were held.
- (ix) **New Courses:**
 MA (Punjabi), MSc (Food and Nutrition) and BSc (CSM) were started during the year 2015 as well as the existing intake of BCom and BCom (Honours) has been increased.
 The college has also introduced B.Voc. Courses in (i) Software Development and (ii) Industrial Waste Treatment Technology from the session 2015-16.
- (x) **Educational Tours:**
 - (a) One-day tour to Pinjore City was arranged by the Geography Dept. on 4 Feb., 2015.
 - (b) One-day tour was organized by Botany Dept to visit Pushpa Gujral Science City, Kapurthala on 7 Feb., 2015.
 - (c) One-day tour to Suraj Kund (Haryana) was jointly organized by the departments of Business Management and Fashion Designing on 12th Feb., 2015 in order to provide exposure to International Craft Mela to the students.
 - (d) One-day tour to Virasat-e-Khalsa, Anandpur Sahib was arranged on 14th Feb., 2015 in order to make the students understand and appreciate the rich cultural heritage of the Punjab.
 - (e) One-day Tour to Security and Exchange Board of India (SEBI), Chandigarh was arranged by the Dept of Commerce on 14th Feb., 2015. There, the students interacted with SEBI officials regarding various financial issues related to stock market and the role of SEBI.
 - (f) A four-day tour was arranged for the students of Arts Faculty to the Royal Cities of Jaipur, Pushkar and Ajmer (Rajasthan) during 15-18 Feb., 2015.
 - (g) A four-day tour of BSc-Medical students was organized during 31 Oct. – 3rd Nov., 2015 to Palampur (HP) in order to understand/study the Flora and Fauna of the Kangra Valley.

Dr Khushvinder Kumar
Principal