

The Annual Quality Assurance Report (AQAR) of the IQAC 2015-16 Part – A

I. Details of the Institution

1.1 Name of the Institution

Jagdish Chandra D.A.V College, Dasuya

1.2 Address Line 1

Balagan Road

Address Line 2

City/Town

Dasuya

State

Punjab

Pin Code

144205

Institution e-mail address

jc dav_ dasuya@yahoo.co.in

Contact Nos.

01883-286600, 286700

Name of the Head of the Institution:

Dr. Rajesh K. Mahajan

Tel. No. with STD Code:

01883-286600

Mobile:

09872986601

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.11 on Four Point Scale	2010	Five years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC:

1.8 AQAR for the year

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR 2014-15 submitted to NAAC on 16-03-2016
- ii. AQAR 2013-14 submitted to NAAC on 26-08-2015
- iii. AQAR 2012-13 submitted to NAAC on 25-06-2015
- iv. AQAR 2011-12 submitted to NAAC on 25-06-2015
- v. AQAR 2010-11 submitted to NAAC on 25-06-2015

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

Computer Science

1.12 Name of the Affiliating University (*for the Colleges*)

Panjab University, Chandigarh

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

No

University with Potential for Excellence

--

UGC-CPE

--

DST Star Scheme

--

UGC-CE

--

UGC-Special Assistance Programme

--

DST-FIST

--

UGC-Innovative PG programmes

--

Any other (*Community
College*)

Organic
Farming

UGC-COP Programmes

--

2. IQAC Composition and Activities

2.1 No. of Teachers

10

2.2 No. of Administrative/Technical staff

01

2.3 No. of students

02

2.4 No. of Management representatives

01

2.5 No. of Alumni

02

2.6 No. of any other stakeholder and
community representatives

01

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

0

2.9 Total No. of members

18

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

Annexure-I

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

1. Monitored all significant academic activities in the college.
2. IQAC has been continuously encouraging the teaching departments to engage in research work and avail the grants offered by the UGC and other agencies under various heads.
3. IQAC checked and verified API of all the promotion cases of teachers.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Annexure-II	Annexure-II

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Annexure-I

1. IQAC celebrated Scientific Awareness Month during December/January in which the students from class IX to class XII of various schools (private/govt.) of the vicinity are shown various science labs of the college. During this free transportation, refreshment and carrier guidance is provided to these students.
2. IQAC organised a training session of fire protection using fire extinguisher on 28/11/2015 for non-teaching staff members.
3. IQAC organised quality teaching oriented movie show on 23/05/16 for teaching faculty. The movie “Chalk and Duster” was shown and post show discussion session was arranged to enhance the critical approach and to promote quality teaching oriented environment.
4. IQAC in collaboration with Computer Science department organised one day workshop on “Enhancing Computer Skills” for Non-Teaching staff members on 24/5/16.
5. IQAC in collaboration with Department of English organised communication sessions for the students of +1/+2 of the collegiate wing.

Annexure-II

Academic Calendar

Admission Schedule

	Without Late Fee	With Late Fee Rs.525/-	With Late Fee Rs. 1890/- and Permission of V.C.
B.A/B.Sc/B.Com/B.C.A/B.Sc.Biotech (I/II/III)	06/07/2015	14/07/2015	04/08/2015
M.Sc. Zoology III SEM, M.Sc. Physics III SEM, M.Sc. Chemistry III SEM	to	to	to
M.Sc.IT Semester I & III SEM	13/07/2015	03/08/2015	18/08/2015
M.Sc. Mathematics I & III SEM			

M.A. English I & III SEM			
M.A. History I & III SEM			
M.A. Punjabi I & III SEM, PGDCA			

Teaching work started from 09-07-15 and 14-07-15 in respect of ongoing classes and New Classes respectively.

Activity Schedule

Enrolment of cadets to NCC (All Wings) & NSS	Till August 31, 2015.
Talent Search Competition for CCA	Till August 30, 2015.
Enrolment of Players in various teams	Till August 31, 2015.
Preparatory Holidays for Semester/Annual	As per University Notification
Exam 2015-2016	

Plan of Action

IQAC advised the chair to improve the infrastructure of staff room and to construct a separate space for staff members in the college canteen. The cell emphasized on the fact that basic amenities for students and teachers including drinking water and toilets should further improve. It was also decided to encourage various teaching departments to organize national / international level Conference/ Seminar/workshop to promote research and research related activities among faculty and post graduate students. IQAC also suggested to install A.C. in the dining hall of Girls hostel and to improve other infrastructure in the girl's hostel. It was also decided to purchase reference books in Library. Dean Examination and Registrar were also requested to make a plan to organise Convocation and Prize distribution function.

Achievements

As per the decision made in the meeting of IQAC, PG department of English and UG departments of commerce and Bio-technology organised National level conferences. PG Department of History in collaboration with Gandhian Studies Centre organized an international level Conference and PG Department of History in collaboration with Ambedkar Studies Centre organized a national level Conference to promote research and research related activities among faculty and post graduate students. On the advice of this cell, basic amenities for students and teachers including drinking water and toilets, in particular, were improved. 4 Air Conditioners were installed in the dining hall of Girl's Hostel and indoor games were also provided as per requirement. A number of new books were purchased in the Library. A number of extension lectures were also organised by different departments.

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	08	-	08	-
UG	05	-	03	-
PG Diploma	01	-	01	-
Advanced Diploma	05	-	-	-
Diploma	04	-	-	-
Certificate	04	-	-	-
Others		-	-	-
Total	27	-	12	-
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	14 (8PG Courses, PGDCA and First year and second year of 5 UG Courses)
Trimester	-
Annual	18(Third year in 5 UG Courses and other certificate, diploma and advanced diploma courses)

1.3 Feedback from stakeholders* (On all aspects)

Alumni Parents Employers Students

Mode of feedback : Online Manual Co-operating schools (for PEI)

Annexure- III

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Due to introduction of semester system in undergraduate courses, the syllabi are accordingly reframed by the university.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NIL

Annexure-III

Feedback from the employers (DAV College Managing Committee, New Delhi) is continuously communicated to the employees of the college by Principal through Administrative Office. Any issue requiring view of the employees is discussed in the meetings of advisory committee and staff council of the college. Any other issue related to particular staff member is discussed through Staff Secretary or in the meeting of staff council.

Feedback from the students is communicated either directly to the Principal or College Registrar or office superintendent or mentoring sessions of the students. Feedback from the students regarding discipline is discussed in the Discipline Maintenance Committee headed by Prof-In-Charge Discipline Committee. Feedback regarding teaching learning process or university work or any other issue is also taken on feedback performa and is addressed by the College Registrar. Feedback from the alumni association is taken care of by the Principal or the Advisory Committee of the College.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
30	22	08	NIL	NIL

2.2 No. of permanent faculty with Ph.D.

12

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
-	39	-	-	-	-	-	-	-	39

2.4 No. of Guest and Visiting faculty and Temporary faculty

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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	00	03	00
Presented papers	16	52	00
Resource Persons	00	00	00

Annexure-IV

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Latest Audio Visual aids are used in PG classes

2.7 Total No. of actual teaching days during this academic year

P.G – 216

U.G - 216

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Open Book system is allowed in some examinations on moral values.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development

3	1	-
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as member of Board of Study/Faculty/Curriculum Development workshop

NOTE: In addition to these, 1 faculty member is a member of Academic Council, Panjab University, Chandigarh.

2.10 Average percentage of attendance of students

80.59%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.A. Sem. I	205	0.97	9.75	15.12	2.45	28.29
B.A. Sem. II	198	1.05	12.04	25.65	10.47	49.21
B.A. II Sem.III	136	2.20	19.85	28.67	11.02	61.74
B.A. II Sem. IV	134	2.24	47.01	30.59	2.98	82.83
B.A. III (year)	128	0.78	38.28	39.84	6.25	85.15
B.Sc (N.M/Med.) Sem. I	189	3.70	23.80	20.63	4.23	52.38
B.Sc. (N.M/ Med) Sem II	184	7.42	32	15.42	7.43	62.28
B.Sc. (N.M/ Med) Sem III	224	10.26	37.5	23.66	3.58	75.0
B.Sc. (N.M/ Med) Sem IV	220	13.18	40.91	21.82	4.09	80
B.Sc. (N.M/ Med.) III year	132	5.30	43.93	43.13	3.03	95.44
B. Com. Sem. I	67	1.49	26.86	17.91	-	46.26
B.Com. Sem. II	66	6.06	24.24	12.12	-	42.42
B. Com. Sem. III	70	2.85	40	42.85	1.43	87.13
B.Com. Sem.IV	69	1.45	59.42	24.67	-	85.51
B.Com III year	50	10	74	14	-	98.00
B.C.A. Sem. I	47	-	8.51	2.12	-	10.63
BCA Sem. II	40	-	-	-	-	-
B.C.A Sem. III	37	-	13.51	27.03	2.70	43.24

B.C.A Sem. IV	35	-	20	31.43	2.85	54.29
B.C.A III year	27	7.40	85.18	-	-	92.58
B.Sc. Bio-Technology (Hons.) Sem. I	26	-	19.23	23.07	-	42.30
B.Sc. Bio-Technology (Hons.) Sem. II	24	-	91.67	8.33	-	100
B.Sc. Bio-Technology (Hons.) Sem III	16	31.25	56.25	-	-	87.50
B.Sc. Bio-Technology (Hons.) Sem IV	17	64.71	23.53	5.89	-	94.13
B.Sc. Bio-Technology (Hons.) III year	13	23.07	76.93	-	-	100
M.Sc. Zoology I sem	44	15.91	72.73	13.36	-	100
M.Sc. Zoology II sem	44	2.27	88.63	6.83	-	97.73
M.Sc. Zoology III sem	24	20.83	54.17	25	-	100
M.Sc. Zoology IV sem	24	4.35	73.91	13.04	8.7	100
M.Sc. I.T. I sem	27	3.70	74.7	--	-	77.77
M.Sc. I.T. II sem	27	34.62	57.69	3.85	-	96.15
M.Sc. I.T. III sem	39	41.03	38.46	15.38	-	94.87
M.Sc. I.T. IV sem	38	57.89	42.11	-	-	100
M.Sc. Physics I sem	44	-	38.63	50	4.54	93.17
M.Sc. Physics II sem	44	9.09	68.18	20.45	-	97.73
M.Sc. Physics III sem	46	19.56	60.87	4.35	10.87	97.05
M.Sc. Physics IV sem	46	15.22	69.56	12.22	-	100
M.Sc. Chemistry I sem	46	4.34	56.52	23.91	2.17	86.95
M.Sc. Chemistry II sem	45	2.22	56.52	28.89	6.67	94.3
M.Sc. Chemistry	45	-	66.66	24.44	8.88	100

III sem						
M.Sc. Chemistry IV sem	45	2.22	80	17.78	-	100
M.Sc. Mathematics I sem	46	-	13.04	26.09	4.35	43.48
M.Sc. Mathematics II sem	46	2.17	47.83	21.74	2.17	73.91
M.Sc. Mathematics III sem	44	-	4.54	-	-	4.54
M.Sc. Mathematics IV sem	44	-	22.73	13.63	47.73	84.09
M.A. English I sem	46	-	10.86	56.52	8.69	76.07
M.A. English II sem	46	-	2.17	43.47	23.91	69.55
M.A. English III sem	35	-	-	54.28	20	74.28
M.A. English IV sem	35	-	2.85	57.14	17.15	77.14
M.A. History I sem	29	-	24.14	48.27	13.79	86.02
M.A. History II sem	29	-	51.72	27.59	6.90	86.21
M.A. History III sem	23	-	30.43	39.13	4.34	74
M.A. History IV sem	22	-	31.82	59.10	-	90.92
M.A. Punjabi I sem	17	-	29.41	23.52	-	52.93
M.A. Punjabi II sem	14	-	42.86	28.57	21.43	92.86
M.A. Punjabi III sem	18	-	44.44	27.77	-	72.21
M.A. Punjabi IV sem	17	-	29.41	17.65	-	47.06
PGDCA(Sem I st)	28	10.71	57.14	-	-	67.85
PGDCA(Sem II)	24	29.17	54.16	-	-	83.83

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

Feedback from students, parents, employees, alumni is discussed in IQAC meetings.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	02
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	--
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	--
Summer / Winter schools, Workshops, etc.	02
Others (Short Term Courses)	06

Annexure-V

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	9	4	-	04
Technical Staff	12	7	-	16

Annexure IV

FACULTY ATTENDED NATIONAL LEVEL CONFERENCE/SEMINAR

1. **Prof. Kamal Mehta** participated in one day national conference on **Modern, Post Modern and Multidisciplinary Mapping of William Shakespeare** organized by Department of English, JCDAV College, Dasuya, on Nov. 06, 2015.
2. **Dr. Jaypinder Kaur Roop** attended one day national conference on **Visualizing Libraries in Digital Era: E-resources and its Impact** organized by Department of Library & Information Science, JC DAV College, Dasuya, March 19, 2016.
3. **Dr. Jaypinder Kaur Roop** attended one day national conference on **Contemporary Issues in Management** organized under Career Oriented Programme Scheme (UGC

Sponsored) in collaboration with Department of Commerce, JC DAV College, Dasuya, February 13, 2016.

PAPERS PRESENTED IN INTERNATIONAL LEVEL CONFERENCE/ SEMINAR

1. **Dr. Bhanu Gupta and Prof. Amit Sharma** presented a paper titled “**On Mathematical Modeling of Integrated Pest Management System Using Impulsive Differential Equations**” in International Multi-Stream conference on technology & life organized by CKD institute of management & technology Tarn Taran on November 08, 2015.
2. **Prof. Deepak Kumar** presented a paper titled **Relevance of Gandhian Peace Philosophy in 21st Century** in one day international conference on Politics, Peace and Tolerance: Relevance of Gandhian Philosophy in the 21st Century organized by JC DAV College Dasuya on February 18, 2016.
3. **Prof. Kamal Mehta** presented a paper titled **Gandhi’s Concept of Non-Violence** in International Conference on Politics, Peace & Tolerance: Relevance of Gandhian Philosophy in the 21st Century organized by Gandhian Study Centre & PG Department of History, JC DAV College, Dasuya on Feb. 18, 2016.
4. **Dr. Anil Kumar** presented a paper titled **Information Entropy of Nanostructure Materials** in International Conference on Recent Advances in Emerging Technologies at SGGSWU, Fatehgarh Sahib held on 23-24 Feb. 2016.
5. **Prof. Rajesh Kumar** presented a paper titled **Gandhian philosophy- Importance in 21st century** in International conference on Political, peace and tolerance: relevance of Gandhian philosophy in the 21st century at JCDAV College, Dasuya on February 18, 2016.
6. **Prof. Rajesh Kumar** presented a paper titled **Green physicochemical extraction of pure cellulose from rice husk** in International conference on Recent trends in basic and applied sciences at Maharaja Agrasen University, Baddi, Solan on 12th May, 2016.
7. **Prof. Mohit K. Sharma** presented a paper titled **Gandhian Philosophy of Religious Tolerance** in UGC Sponsored one day International Conference on Politics, Peace and Tolerance, Relevance of Gandhian Philosophy in the 21st Century at J.C. D.A.V. College, Dasuya, February 18th, 2016.
8. **Dr. Girish Kumar** presented a paper titled **Gandhi’s swadeshi ideology in present day context** in International Conference on Political, peace and tolerance: relevance of Gandhian philosophy in the 21st century at JCDAV College, Dasuya (Pb) on February 18, 2016.
9. **Prof. Sital Singh** presented a paper titled **Gandhaivadi Panjabi Kavita da Alochanatmic Adhyan** in International conference on Political, peace and tolerance: relevance of Gandhian philosophy in the 21st century at JCDAV College, Dasuya (Pb) on February 18, 2016.
10. **Prof. Sital Singh** presented a paper titled **Manvi Adhikar: Gurbani de Adhar te**, in One Day International Conference on Human Rights: Indian Western Perspectives at PG Department of History, Radha Krishan Arya College Newashahr, March 19, 2016.
11. **Prof. Sital Singh** presented a paper titled **Malevai Lok Nach, Ak Adhyan** in One Day International Conference on Political, Economic and socio- cultural Aspects Problems and Solutions at D.A.V. College, Abohar, Jan 20, 2016.

12. **Sh. Tarsem Lal (Librarian)** presented a paper on “**The use of Websites in Gandhian Studies**” in One Day International Conference on Politics, Peace and Tolerance: Relevance of Gandhian Philosophy in the 21st Century was organized by Gandhian Studies centre & P.G. Department of History at J.C. D.A.V. College, Dasuya on February 18, 2016.
13. **Dr. Rajesh Kumar** presented a paper in International Conference on Recent Advances in Emerging Technologies (ICRAET-2016) organized by Sri Guru Granth Sahib World University, Fatehgarh Sahib on February 23-24, 2016.
14. **Dr. Rajesh Kumar** presented a paper in one-day International Conference on Politics, Peace and Tolerance: Relevance of Gandhian Philosophy in the 21st Century organized by Gandhian Studies Centre and Deptt. of History, JCDAV College Dasuya on 18, February 2016.
15. **Prof. Deepak Saini** presented a paper titled “**Gandhi & his Philosophy of non violence**” in one-day International Conference on Politics, Peace and Tolerance: Relevance of Gandhian Philosophy in the 21st Century organized by Gandhian Studies Centre and Deptt of History, JCDAV College Dasuya on 18, February 2016.
16. **Dr. Vinay Kumar** presented a paper titled **Human Rights: Indian and Western Perspectives** in a UGC sponsored International Conference on Human Rights: Indian and Western Perspectives at Radha Krishan Arya College, Nawanshahr on 9th March, 2016.

PAPERS PRESENTED IN NATIONAL LEVEL CONFERENCE/ SEMINAR

1. **Prof. Amit Sharma** presented a paper titled **Data Analysis and Predictions Using Mathematical Modeling** in one day national conference on Contemporary issues in management organized by JCDAV College Dasuya on February 13, 2016.
2. **Dr. Bhanu Gupta and Prof. Amit Sharma** presented a paper titled **Importance of Library Resources in Mathematical Learning** in one day National Conference on Visualizing libraries in digital era: E-resources and its impacts organized by Department of library and information science, JCDAV College, Dasuya on March 19, 2016.
3. **Prof. Amit Sharma** presented a paper titled **Mathematical study of three tropic level food chain system with mixed functional response** in national conference on Recent development in Mathematical modeling & fuzziology (M²-FZY) organized by Chandigarh university Mohali on 28-29 October 2015.
4. **Dr. Bhanu Gupta and Prof. Amit Sharma** presented a paper titled **Study of mathematical modeling of pest management** in National Seminar on Recent trends in applied mathematics organized by Government College Sri Muktsar Sahib on November 21, 2015.
5. **Dr. Bhanu Gupta and Prof. Amit Sharma** presented a paper titled **Study of mathematical modeling of pest management** in National Conference on Recent trends in environment, science & technology-2016 (RTEST-2016) organized by Rayat Bahra University Mohali on March 11, 2016

6. **Prof. Deepak Kumar** presented a paper titled **Boitourism and its Management in India** in one day national conference on Contemporary Issues in Management organized at JC DAV College Dasuya on Feb. 13, 2016.
7. **Prof. Deepak Kumar** presented a paper titled **Swachhta: A Need to Protect Environment** in one day national seminar Mahatma Gandhis Philosophy and the Globalised world organized at DAV College Abohar on Mar.30, 2016.
8. **Prof. Deepak Kumar** presented a paper titled **Role of E- Library in Life Sciences** in one day national conference on Visualizing Library in Digital Era: E- Resources and its Impact organized by JC DAV College Dasuya on Mar. 19, 2016.
9. **Prof. Kamal Mehta** presented paper titled **Bioremediation-A Bio-Weapon against pollution** in DST Sponsored National Seminar on Recent Advances in Science and Technology organized by Department of Sciences, Shanti Devi Arya Mahila College, Dinanagar (Distt. Gurdaspur) on Nov.14, 2015.
10. **Prof. Kamal Mehta** presented paper titled **Ambedkar's vision for reconstruction of Indian society** in UGC Sponsored National Seminar on "Making of Indian Constitution- Past, Present & Future-Contextualizing Contribution of Dr. B.R Ambedkar organized by Ambedkar Study Centre & PG Department of History, JC DAV College, Dasuya on Jan. 22, 2016.
11. **Prof. Kamal Mehta** presented paper titled **PCR-A Revolution in the field of Molecular Biology** in National Conference on Emerging Trends in Life sciences organized by Department of Biotechnology, JC DAV College, Dasuya on March 12,2016
12. **Prof. Kamal Mehta** Presented Paper titled **E-Learning through Digital Libraries** in one day National Conference on Visualizing libraries in digital era: E-resources and its impacts organized by Department of library and information science, JCDAV College , Dasuya on March 19, 2016.
13. **Prof. Jagdeep Singh** presented a paper titled **Security and privacy issues in net banking** in one day National Conference on Contemporary issues in management at JC DAV College, Dasuya on February 13, 2016.
14. **Prof. Jagdeep Singh** presented a paper titled **Use of computer in Biotechnology** in one day National Conference on Emerging trends in life Sciences at JC DAV College, Dasuya on March 12, 2016.
15. **Prof. Jagdeep Singh** presented a paper titled **Evaluation of Library Softwares available in India** in one day National Conference on Visualizing Libraries in digital Era: E-resources and its impact at JC DAV College, Dasuya on March 19, 2016.
16. **Dr. Anil Kumar** presented a paper titled **Information Entropy of Supersymmetric Potential** in DAV National Congress on Science, Technology, Engineering, Humanities and Management at DAVIET, Jalandhar held on 20-21 May 2016.
17. **Dr. Anil Kumar** presented a paper titled **Information Density and Entanglement in Nanostructure Materials** in National Conference on Emerging Trends in Life Sciences at JC DAVCollege, Dasuya held on 12th Mar. 2016.
18. **Dr. Anil Kumar** presented a paper titled **Reduction in Position Space Uncertainty in** National Conference on Current Advances in Theoretical and Experimental Physics at Sanatan Dharam College (Lahore), Ambala Cantt held on 7th Nov. 2015.

19. **Prof. Rajesh Kumar** presented a paper titled **Synthesis and characterization of Silver doped ZnO nanomaterials** in national conference on Smart materials: Advances in research and techniques at Shoolini University, Solan (HP) on Nov 26-27, 2015.
20. **Prof. Rajesh Kumar** presented a paper titled **Ag-doped ZnO nanomaterials for efficient photocatalytic applications** in national conference on Frontiers in materials research and applications at SBSSTC, Ferozepur (Pb) on Dec 24, 2015.
21. **Prof. Rajesh Kumar** presented a paper titled **Cellulose- Types and pre-treatment methods for its extraction from biomass-A review** in national conference on Emerging Trends in Life Science at JCDAV College, Dasuya (Pb) on March 12, 2016.
22. **Dr. Girish Kumar** presented a paper titled **CuO Nanorods: Synthesis, Characterization and Heterogeneous Photocatalytic applications** in national conference on Smart materials: Advances in research and techniques at Shoolini University, Solan (HP) on Nov 26-27, 2015.
23. **Dr. Girish Kumar** presented a paper titled **Fabrication and characterization of Bi₂O₂CO₃ nanodiscs** in national conference on Frontiers in materials research and applications at SBSSTC, Ferozepur (Pb) on Dec 24, 2015.
24. **Dr. Girish Kumar** presented a paper titled **Magnetically separable nano ZnO-Fe₂O₃ for photocatalytic degradation of Methyl orange Dye** in national conference on Emerging Trends in Life Science at JCDAV College, Dasuya (Pb) on March 12, 2016.
25. **Dr. Girish Kumar** presented a paper titled **Utilization of ZnO Nanomaterials in photocatalytic Degradation of Methylene blue** in 3rd DAV national Congress on Science, Technology, Engineering, Humanity and Management (STEHM216) at DAVIET, Jalandhar (Pb) on May 20- 21, 2016.
26. **Dr. Jaypinder Kaur Roop** presented a paper titled **Hypothyroidism- A matter of concern for its complications and risk factors** in the DBT Sponsored National Conference on Emerging Trends in Biological and Chemical Sciences, Organized by S. Government College of Science Education and Research, Jagraon, on March 25-26, 2016.
27. **Dr. Jaypinder Kaur Roop** presented a paper titled **Applications of nanotechnology in medicine** in National Conference on Emerging Trends in Life Sciences organized by Department of Biotechnology at J C DAV College, Dasuya, on March 12, 2016.
28. **Prof. Mohit K. Sharma** presented a paper titled **Future of Indian Constitution** in UGC Sponsored One Day National Conference on Making of Indian Constitution – Past, Present and Future: Contextualizing Contribution of Dr. B.R. Ambedkar at J.C. D.A.V. College, Dasuya on January 22nd, 2016.
29. **Prof. Mohit K. Sharma** presented a paper titled **Applications of Electronic Commerce** in UGC Sponsored one day National Conference on Contemporary issues in Management at J.C. D.A.V. College, Dasuya, on February 13th, 2016
30. **Prof. Mohit K. Sharma** presented a paper titled **Role of Computer in Life Sciences** in national Conference on Emerging Trends in Life Sciences at J.C. D.A.V. College, Dasuya, on March 12th, 2016.
31. **Prof. Mohit K. Sharma** presented a paper titled **Applications of Cloud Computing in Libraries** in National Conference on Visualizing Libraries in Digital Era: E-resources and its impact at J.C. D.A.V. College, Dasuya, on March 19th, 2016.

32. **Prof. Sital Singh** presented a paper titled **Reception of William Shakespeare in Contemporary Punjabi**, in one day national conference on Modern, Post Modern and multi- Disciplinary Mapping of William Shakespeare in Department of English at J.C. D.A.V. College Dasuya, on Nov. 06, 2015.
33. **Prof. Sital Singh** presented a paper titled **Dalit Parpakh vich Bharti Savidhan** in UGC Sponsored One Day National Conference on Making of Indian Constitution – Past, Present and Future: Contextualizing Contribution of Dr. B.R. Ambedkar at J.C. D.A.V. College, Dasuya on January 22nd, 2016.
34. **Prof. Sital Singh** presented a paper titled **Tourism managemant: Bhashi Samasiavan te Samidhan** in One Day National Conference Contemporary issues in Management at J.C. D.A.V. College, Dasuya, on February 13th, 2016.
35. **Prof. Sital Singh** presented a paper titled **Punjabi de hath likhit khararian de parsang vich digital Libraryan da mahatav** in one day National Conference on Visualizing libraries in digital era: E-resources and its impacts organized by Department of library and information science, JCDAV College , Dasuya on March 19, 2016.
36. **Sh. Tarsem Lal (Librarian)** presented a paper titled **“Use of Directory of open access Journal (DOAJ) in Management** in One Day Conference on Contemporary issues in management organized under Career Oriented Programme Scheme by Commerce Department of JC DAV college, Dasuya, Hoshiarpur on February 13,2016.
37. **Sh. Tarsem Lal (Librarian)** presented a paper titled **“Role of NLIST in Life Science”** in One Day National Conference on Emerging Trends in Life Sciences was organized by Department of Biotechnology at J.C. D.A.V. College, Dasuya on March 12, 2016.
38. **Dr. Rajesh Kumar** presented a paper in National Conference on “Visualizing Libraries in Digital Era: E-resources and its impact” organized by Deptt. Of Library & Information Science, JCDAV College Dasuya on 19th, March 2016.
39. **Dr. Rajesh Kumar** presented a paper in one-day National seminar on “Emerging Trends in Life Sciences Farming” organized by Deptt. Of Biotechnology, JCDAV College Dasuya on 12, March 2016.
40. **Dr. Rajesh Kumar** presented a paper in one-day National Conference on “Contemporary Issues in Management” organized under Carrier oriented programme scheme in collaboration with Dept. of Commerce, JCDAV College Dasuya on 13, February 2016.
41. **Dr. Rajesh Kumar** presented a paper in one day National Conference Frontiers in Materials Research & Applications (FMRA-2015)” organized by Shaheed Bhagat Singh State Technical Campus, Ferozepur on 24, December 2015.
42. **Dr. Rajesh Kumar** presented a paper in National Conference on Current advances in Theoretical and experimental Physics organized by PG Department of Applied Physics, SD College Ambala Cantt (Haryana) on 7, November 2015.
43. **Prof. Deepak Saini** presented a paper titled **Biofuel– as the Alternate Energy** in DST Sponsored National Seminar on Recent Advances in Science and Technology organized by Department of Sciences, Shanti Devi Arya Mahila College, Dinanagar (Distt. Gurdaspur) on Nov.14, 2015.

44. **Prof. Deepak Saini** presented a paper titled **Human Genome Project , Why is it important** in national Conference on Emerging Trends in Life Sciences at J.C. D.A.V. College, Dasuya, on March 12th, 2016.
45. **Prof. Deepak Saini** presented a paper titled **Role of E- Library in Science** in one day National Conference on Visualizing Libraries in digital Era: E-resources and its impact at JC DAV College, Dasuya on March 19, 2016.
46. **Dr. Vinay Kumar** presented a paper titled **Historical sources of History plays of William Shakespeare: A Reading of “Richard II”** in one day national conference on Modern, Post Modern and multi- Disciplinary Mapping of William Shakespeare in Department of English at J.C. D.A.V. College Dasuya, Nov. 06, 2015.
47. **Dr. Vinay Kumar** presented a paper titled **New Education Policy: Value Based Education in Contemporary Era** in a UGC sponsored National Conference “**New Education Policy: Issues and Challenges**” at DAV College, Amritsar on 18th November, 2015
48. **Dr. Vinay Kumar** presented a paper titled “**Mahatma Gandhi: A Satyagrahi** in a UGC sponsored National Conference on Mahatma Gandhi on Religion: An Assessment at DAV College, Amritsar on 23rd January, 2016.
49. **Dr. Vinay Kumar** presented a paper titled in a UGC sponsored National Conference on the topic “**Good Governance in India: Initiatives, Challenges & Prospects**” in the Conference on Governance in Historical Perspective at DAV College, Jalandhar on 23rd January, 2016.
50. **Dr. Vinay Kumar** presented a paper titled in a UGC sponsored National Conference on the topic “**Historical Perspective of Balmik community in colonial Punjab**” at Panjabi University, Patiala on 4th to 6th March, 2016.
51. **Dr. Vinay Kumar** presented a paper titled “**Mahatma Gandhi and his Contemporaries: A critique**” in a UGC sponsored National Seminar on Mahatma Gandhi’s Philosophy and the Globalised World at DAV College, Abohar on 30 March, 2016.
52. **Dr. Vinay Kumar** presented a paper titled “**Presence of Dr. B.R. Ambedkar in Punjab Today: A Historical Evaluation**” in a UGC sponsored National Seminar at Shanti Devi Arya Mahila College, Dinanagar on 16 April, 2016.

Annexure V

FACULTY ATTENDED REFRESHER COURSES

1. **Prof. Sital Singh** attended refresher course at UGC Human Resource Development Centre GNDU Amritsar from Dec 03, 2015 to Dec 23, 2015.
2. **Prof. Onkar Singh** attended refresher course in “**Experimented Physics**” conducted by IAS, Bangalore at Goa University, Goa from 10/5/2016 to 25/ 5/ 2016.

FACULTY ATTENDED WINTER/ SUMMER SCHOOL

1. **Prof. Amit Sharma** attended UGC-Sponsored **Summer School** organized by UGC HRDC PU Chandigarh from 30.04.2016 to 20.05.2016.
2. **Dr. Amandeep Rana** attended UGC-Sponsored **Summer School** organized by UGC HRDC PU Chandigarh from 30.04.2016 to 20.05.2016.

FACULTY ATTENDED SHORT TERM COURSES

1. **Prof. Amit Sharma** attended UGC-Sponsored short term course/workshop in “**Research Methodology for PhD/ Post Doctoral Scholars/Teaching Faculty**” organized by UGC HRDC GNDU Amritsar from 15.10.2015 to 21.10.2015.
2. **Dr. Bhanu Gupta** attended UGC-Sponsored short term course on ‘**Harmonizing Self: Becoming and Being**’ organized by UGC HRDC PU Chandigarh from 11.05.2016 to 17.05.2016.
3. **Prof. Kamal Mehta** participated in one week Short term course/ Workshop on **Research Methodology** at ASC, GNDU (UGC-Human Resource Development Centre) from 15-21 Oct., 2015.
4. **Dr. Girish Kumar** attended a short term course on ‘**Harmonizing Self: Becoming and Being**’ at HRDC Panjab University Chandigarh w.e.f. 11.05.16 to 17.05.2016.
5. **Dr. Anil Kumar** attended a short term course on ‘**Harmonizing Self: Becoming and Being**’ at HRDC Panjab University Chandigarh w.e.f. 11.05.16 to 17.05.2016.
6. **Sh. Tarsem Lal (Librarian)** attended a workshop on “**Open Source Software-Koha**” organized by Department of Library and information Science, Faculty of Arts & Social Science at Swami Vivekanand Subharti University, Meerut from 04th & 05th June 2016.

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

1. Framed research monitoring and proposal assessment committee.
2. Motivated staff members to apply for research projects and to organise research related programmes in the college.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	2	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	19	--	--
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	03	--	--

Annexure VI

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
-----------------------	---------------	----------------------------	------------------------	----------

Major projects	--	--	--	--
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	--	--	--	--
Students research projects (other than compulsory by the University)	--	--	--	--
Community College	--			--
Total				NIL

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

Annexure VII

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges
Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (Community College)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	02	04	--	--	--
Sponsoring agencies	UGC/ Punjab University	UGC/ College Own Resources	--	--	--

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College Funding as and when required

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	NIL
	Granted	NIL
International	Applied	NIL
	Granted	NIL
Commercialised	Applied	NIL
	Granted	NIL

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
NIL	--	--	--	--	--	--

3.18 No. of faculty from the Institution who are Ph. D. Guides
and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students participated in NSS events: 184

University level State level
National level International level

3.22 No. of students participated in NCC events: 105

University level State level
National level International level

3.23 No. of Awards won in NSS: NIL

University level State level

National level International level

3.24 No. of Awards won in NCC:

University level State level

National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Tree Plantation program was organised by NCC during August 2014.
- Aid Awareness program was organised by NSS on 22-08-2014.
- Seminar was organised on Aid Awareness and Drug addiction in collaboration with Pushpa Gujral Science City, Kapurthala on 22/09/14.
- Blood Donation Camp was organised by NSS in collaboration with HDFC bank on 08/01/2016.
- Polythene free campaign was launched in the college and students were encouraged to promote it in their houses and towns/villages.
- Literacy drive was launched to educate house wives.

ANNEXURE-VI

Research Papers Published in Peer Reviewed International Journals

1. **Dr. Bhanu Gupta** and **Prof. Amit Sharma** published a paper titled “**Harvesting Model for Fishery Resource with Reserve Area and Modified Effort Function**” in Malaya Journal of Matematik, 4(2) (2016) 255-262.
2. **Dr. Bhanu Gupta** and **Prof. Amit Sharma** published a paper titled “**Impulsive Integrated Pest Management Model with a Holling Type II Functional Response**” in International Journal of Advanced Engineering Research and Applications, Vol. 1, Issue 10, Feb. 2016.
3. **Prof. Kamal Mehta** published a paper titled “**Study of Prevalence of Allergy among College Students** ” in Referred/Peer reviewed & indexed International Journal Of Science and Research, Vol. 4 issue 12, Dec. 2015 with impact factor 5.611.

4. **Prof. Rajesh Kumar** along with S. H. Kim, Ahmed A. Ibrahim, Ahmad Umar, M. Abaker, S. W. Hwang, and S. Baskoutas published a paper titled “**Synthesis and Characterization of Mimosa Pudica Leaves Shaped α -Iron Oxide Nanostructures for Ethanol Chemical Sensor Applications**” in Journal of Nanoscience and Nanotechnology (American Scientific Publishers), 16, 2944–2949 (2016). (IF-1.56).
5. **Prof. Rajesh Kumar** along with Ahmad Umar, Sang-Hoon Kim, Hamed Algarni and M.S. Al-Assiri published a paper titled “**Platinum nanoparticles decorated carbon nanotubes for highly sensitive 2-nitrophenol chemical sensor**” in Ceramics International (Elsevier) 42 (7), 9257-9263 (2016). (IF-2.61).
6. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with Sang Hoon Kim, Ahmad Umar and H. Algarni published a paper titled “**Facile and rapid synthesis of ZnO nanoparticles for photovoltaic device applications**” in Journal of Nanoscience and Nanotechnology (American Scientific Publishers), 15, 6807-6812 (2015). (IF-1.56).
7. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with Ahmad Umar, H. Algarni and S.H. Kim published a paper titled “**Effect of annealing temperature on the properties and photocatalytic efficiencies of ZnO nanoparticles**” in Journal of Alloys and Compounds (Elsevier) 648, 46-52, (2015). (IF-2.999).
8. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with Ahmad Umar, M. S. Akhtar, and S. H. Kim published a paper titled “**Growth and properties of well-crystalline cerium oxide (CeO_2) nanoflakes for environmental and sensor applications**” in Journal of Colloid and Interface Science (Elsevier) 454, 61–68 (2015). (IF-3.368).
9. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with S.H. Kim, Ahmad Umar, and Ahmed A. Ibrahim published a paper titled “**Facile synthesis and photocatalytic activity of cocoon-shaped CuO nanostructures**” in Materials Letters, (Elsevier) 156, 138-141, (2015). (IF-2.489).
10. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with A. Umar, M.S. Akhtar, Y. Wang and S.H. Kim published a paper titled “**Ce-doped ZnO nanoparticles for efficient photocatalytic degradation of direct red-23 dye**” in Ceramics International (Elsevier) 41.7773–7782 (2015). (IF-2.61).
11. **Prof. Rajesh Kumar** along with Sang-Hoon Kim, Ahmad Umar, Hamed Algarni and M. S. Al-Assiri published a paper titled “**Fabrication of nitroaniline chemical sensor based on polyaniline coated multi-walled carbon nanotubes**” in Nanoscience and Nanotechnology Letters (American Scientific Publishers) (IF-1.43).
12. **Prof. Rajesh Kumar** along with Ahmad Umar, Jong-Heun Lee, and O. Al-Dossary published a paper titled “**Highly sensitive ethanol gas sensors based on Ag-doped ZnO nanocones**” in Nanoscience and Nanotechnology Letters (American Scientific Publishers) (IF-1.43).
13. **Prof. Rajesh Kumar** along with Sang-Hoon Kim, Ahmad Umar, Hamed Algarni and M. S. Al-Assiri published a paper titled “**Poly(Acrylic Acid)/multi-walled carbon nanotube composites: Efficient scaffold for highly sensitive 2-Nitrophenol chemical sensor**” in Nanoscience and Nanotechnology Letters (American Scientific Publishers) (IF-1.43).
14. **Dr. Girish Kumar** along with Suvarcha Chauhan, Lalita Pathania and Kundan Sharma published a paper titled “**Volumetric, acoustical and viscometric behavior of glycine**”

- and DL-alanine in aqueous furosemide solutions at different temperatures**” in Journal of Molecular Liquids 212 (2015) 656–664 (Elsevier) (IF-2.08).
15. **Dr. Girish Kumar** along with Suvarcha Chauhan, Kuldeep Singh, Kuldeep Kumar, Sundaresan Chittor Neelakantan published a paper titled **“Drug–Amino Acid Interactions in Aqueous Medium: Volumetric, Compressibility, and Viscometric Studies”** in J. Chem. Eng. Data, DOI: 10.1021/acs.jced.5b00549 (American Chemical Society) (IF-2.04).
 16. **Dr. Jaypinder Kaur Roop** published a paper titled **“Screening of Plants for Rodent Control: Review”** in International Journal of Pharmaceutical Sciences Review and Research, 2016, Vol. 37(2):1-12.
 17. **Dr. Jaypinder Kaur Roop** published paper titled **“Effect of Melia azedarach Linn seed extract on estrous cycle and reproductive performance in female rats”** in International Journal of PharmTech Research CODEN (USA): IJPRIF 2015 , Vol. 8(2): 273-279.
 18. **Prof. Deepak Saini** published a paper titled **“Polistes herbreaus are best Pollinators of Zizyphus maurtiana”** in International Journal of Science and Research (IJSR), Impact Factor (2013): 4.438 and ISSN (Online): 2319-7064, Pg no-1994-1996.
 19. **Prof. Sital Singh** published a paper titled **“Shri Guru Granth Sahib Vitch Nitika”** in Sada Virsa Sada Gourav from Town Extension Ludhiana, ISSN 0971-7129, September 2015.

ANNEXURE-VII

BOOKS PUBLISHED

1. **Dr. Bhanu Gupta** published a book titled **Elements of Probability and Mathematical Statistics Volume-II** from Sharma publications, Jalandhar with ISBN No. 9879351810872.
2. **Dr. Bhanu Gupta** published an edited book titled **Mathematical Modeling with its Applications** from Sharma publications, Jalandhar with ISBN No.9789351810674.
3. **Dr. Vinay Kumar** published an edited book titled **Dr. B.R.Ambedkar’s Ideology and its Contemporary Relevance-I** from Twenty first Century Publications, Patiala with ISBN No.9788189463526.
4. **Prof. Mohit K. Sharma** published a book titled **Problem solving through C** from ABS Publications, Jalandhar with ISBN No – 978-81-7072-169-7.
5. **Prof. Mohit K. Sharma** edited book titled **Recent Trends in Computer and Communication Technology** from ABS Publications, Jalandhar with ISBN No – 978-81-7072-173-4.

6. **Dr. Rajesh Kumar** published a book titled **Nuclear Structure at High Spin** from Lap Lambert Academic Publishing with ISBN: 978-3-659-79485-8 (2015).

BOOK CHAPTERS PUBLISHED

1. **Prof. Jagdeep Singh** published a book chapter titled **Cloud Computing: An Advancement in the field of Education** in Recent trends in computer and communication technology Edited by Mohit k. Sharma, published by ABS Publication Jalandhar having ISBN number 978-81-7072-173-4. (Page: 23-29).
2. **Prof. Jagdeep Singh** published a book chapter titled **Artificial Intelligence in smart toys** in recent applications in Artificial intelligence Edited by Mohit k. Sharma, published by ABS Publication Jalandhar having ISBN number 978-81-7072-177-2. (Page: 69-74)
3. **Prof. Jagdeep Singh** published a book chapter titled **Generation of Randon numbers for discrete system simulation** in Mathematical modelling with its applications Edited by Dr. Bhanu Gupta by Sharma publication Jalandhar having ISBN number 93-5181-067-4. (Page: 124-129).
4. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with A. Umar, M.S. Akhtar, published book chapter titled **Applications of ZnO Nanomaterials for Dye-Sensitized Solar Cells and Environmental Remediation** in Encyclopedia of Semiconductor Nanotechnology Edited by Ahmad Umar (American Scientific Publishers) Vol-1, Chapter 11 (ISBN No. 1-58883-200-7).
5. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with A. Umar, published book chapter titled **Physical Vapor Deposition of ZnO Nanostructured Thin Films: Properties and Applications** in Encyclopedia of Semiconductor Nanotechnology Edited by Ahmad Umar (American Scientific Publishers) Vol-5, Chapter 12 (ISBN No. 1-58883-204-X).
6. **Prof. Rajesh Kumar and Dr. Girish Kumar** along with A. Umar, published book chapter titled **Physical Vapor Deposition of ZnO Nanostructured Thin Films: Properties and Applications** in Encyclopedia of Semiconductor Nanotechnology Edited by Ahmad Umar (American Scientific Publishers) Vol-5, Chapter 12 (ISBN No. 1-58883-204-X).
7. **Dr. Girish Kumar with Rajesh Kumar** published book chapter titled **An Overview of Chaos in Oscillatory Chemical Reactions: The Mathematical Approximation of the Oslen Model** in a book titled Mathematical Modeling with its applications edited by Dr. Bhanu Gupta published by Sharma Publications with ISBN 978-93-5181-0674.

8. **Prof. Kamal Mehta** published book chapter titled **Mathematics of Electrocardiography** in a book titled **Mathematical Modeling with its applications** edited by Dr. Bhanu Gupta published by Sharma Publications with ISBN 978-93-5181-0674.
9. **Dr. Rajesh Kumar** published a book chapter titled **Generalization of Kink Solutions** in book titled **Mathematical Modeling with its applications** edited by Dr. Bhanu Gupta published by Sharma Publications with ISBN 978-93-5181-0674.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	10 Acres	--	--	10 Acres
Class rooms	37	00	-	37
Laboratories	24	00	--	24
Seminar Halls	--	--	--	--
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	--	--	--
Value of the equipment purchased during the year (Rs. in Lakhs)	--	--	--	--
Others	--	--	--	--

4.2 Computerization of administration and library

Semi- automated Library and Administrative Office

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	8218	679418	112	53403	8330	732821
Reference Books	7480	254013	752	256854	8232	510867
e-Books	NLIST provides access to 135000 e- books.					
Journals					27	40375
e-Journals	NLIST provides access to 6000 e- journals.					
Digital Database	DELNET database are used.					
CD & Video	230	Gifted	–	–	230	Nil
Others (photocopier)			1	30,000/-		

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	193	07 labs with networking	09 Teaching department and Library	02 Browsing Centres	0	Semi-Comput	09 Teaching Departm	Networking Resource

		, facility of multimedia Projector.	have facilities of Internet connection	with the facility of Printer and Scanner		erized	ents have facilities of Computers and Internet connection	Center, carrier counselling cell and Gandhian and Ambedkar study centres have facility of internet.
Added	2	--	--	--	--		--	
Total	195	07	09	02	0		09	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up-gradation (Networking, e-Governance etc.)

The Department of Computer Science & IT organizes annual workshops for non-teaching staff of the college to upgrade their soft skills and provides need based regular guidance to them. Also internet access is available to all the teaching departments. There are dedicated browsing centres for the students in the computer lab and library. The administrative office and accounts office are semi-automated.

4.6 Amount spent on maintenance in lakhs :

i) ICT	1.64
ii) Campus Infrastructure and facilities	1.93
iii) Equipments	0.10
iv) Others	11.61
Total :	15.28

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Various teacher incharges of different support services on the recommendations of IQAC organized mentoring sessions and class room visits to enhance student awareness about support services. NCC /NSS Officers make the students aware about benefits of joining NCC/NSS and motivate them to join through classroom visits. Student Help Desk organizes mentoring sessions at the beginning of the session about rules and regulations of College /University and various Student Support Services. Dean EMA organizes Talent Hunt Programme for the various cultural events for the students in the month of August/September to give a chance to the students to come out with their talent, participate in the event and finally get short listed in various teams who are to participate in various cultural competitions at Zonal/University and Inter university level.

5.2 Efforts made by the institution for tracking the progression

The college makes earnest effort at every level through counselling and advertisement to ensure that the maximum number of students may get benefit from the Support Services offered by the college.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1624	670	-	-

(b) No. of students outside the state

85

(c) No. of international students

NIL

Men	No	%	Women	No	%
	983	42.85		1311	57.15

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1533	320	5	323	-	2181	1447	412	2	433	1	2294

Demand ratio Varies from class to class

Dropout % 1.97%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Coaching for competitive examination is organized by Gandhian and Ambedkar study centres.

No. of students beneficiaries

12

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

Career guidance and counselling is provided by the Placement Cell to the final year students of various programmes.

No. of students benefitted

--

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
NIL	NIL	NIL	A number of students have been placed in schools, colleges and banks but no record has been maintained.

5.8 Details of gender sensitization programmes

A lecture on Dowry System was organised by Women Cell.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

--

--

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	150	6,93,000/-
Financial support from government	196	51,38,027/-
Financial support from other sources	NIL	NIL
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

21st century is an era of knowledge society. Knowledge and educated people are the resource of development. Society depends on institutions which create and disseminate knowledge and educate the people. Knowledge is imparted in higher educational institutions. Realizing this, the Arya Samajists of Dasuya town under the able guidance and leadership of Pt. Jagdish Chander Sharma, conceived a vision to empower the youth of this backward area through education to dispel ignorance and promote knowledge which is also one of the principles of Arya Samaj. The college came into existence in 1971 as a small sapling which the passage of time has grown into a blossoming garden. The vision of this upcoming institution of the backward kandi area is

- To make students professionally skilled, academically sound and vocationally trained to face the global challenges and to be economically self sufficient to earn for the sustenance of life.
- To provide an atmosphere for an all round personality development to the students. So that after completing their education, they may prove an asset for the modern and progressive society.
- To enable the youth to be a bridge between the extremes. i.e. individual and collective, traditional and modern, national and cosmopolitan realism.

MISSION

The mission is to convert the goals and the objectives into reality through constant sincere efforts, undertaking all projects and programs, facing all challenges, to enable the youth to be fully enlightened, empowered, skilled and a confident entity for the society and the nation.

- The college aims to blend the traditional Vedic Education with the modern technological advancement thus enabling the students to lead an exemplary life personifying the rich unique cultural, ethnic and global values enshrined in the rich heritage of India.
- In order to meet the emerging global needs, this college is developing as a leading science college of the area imparting advance education in all streams, especially science and information technology.

6.2 Does the Institution has a management Information System

Yes, the college has a MIS in place using Email and telephone.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Curriculum Development is undertaken by the affiliating University. The various teaching departments forward their inputs through the faculty members who are the members of board of studies of the University.

6.3.2 Teaching and Learning

The college provide infrastructural and technical support to improve teaching learning process as required by various departments. Computer and internet facility is provided to every department of the college.

6.3.3 Examination and Evaluation

The college follows the rules and regulations regarding examination and evaluation as per Panjab University, Chandigarh.

6.3.4 Research and Development

The college administration actively and financially supports research and development by encouraging the faculty to participate/present papers in seminars / conference / workshops. The college also encourages various departments to organize research related events.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The college has semi-automated Library having a number of Journals, E-Journals, E-Books and Reference Books besides a large number of Text Books. It is open from 9.00 a.m. to 4.30 p.m.

All the teaching departments have internet access to augment the knowledge of the faculty members. All the faculty members are provided access to NLIST. All the science departments have well equipped laboratories.

The College Administrative Office and Accounts Office are also fully updated.

6.3.6 Human Resource Management

The College Administration has created a number of offices such as Office of the Registrar, Dean Examination, Bursar, Dean Building, Dean EMA, Secretary Staff Council, Dean Student welfare, teacher representatives in Local Managing Committee. Teachers are appointed on these posts for a period of two years as per the criteria passed by staff council. This gives an exposure to the faculty members to gain valuable management experience. The college also appoints Girls Hostel Warden to take care of the requirements of girl's hostel. All these offices facilitate the College Principal in smooth functioning of the college.

6.3.7 Faculty and Staff recruitment

Permanent faculty is recruited by DAV College Managing Committee, New Delhi after duly notifying the vacant posts in a number of national / regional newspapers as per the eligibility conditions laid down by UGC/University. The temporary faculty is recruited on adhoc basis at the college level after following the procedure laid down by the University.

6.3.8 Industry Interaction / Collaboration

The students of some science departments visit Industry/companies and university Laboratories as per the requirement of the curriculum or to complete their project work.

6.3.9 Admission of Students

Admission of students to M.Sc Physics, Chemistry and Zoology is made on the basis of entrance test conducted by affiliating Panjab university, Chandigarh and other post graduate courses (M.Sc in Mathematics and IT ; M.A. in English, Punjabi and History), B.Com, BCA, B.Sc (Bio-tech) is done purely on college merit basis. Admission of students to BSc (Medical), BSc (Non-Medical), BA is open to the students satisfy minimum eligibility conditions.

6.4 Welfare schemes for

Teaching / Non teaching / Students	The medical facility is available in the College Health Centre to all the staff members, both teaching, non teaching and to all the students. Moreover an arrangement in the nearby hospital is also made in case of emergency.
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6.5 Total corpus fund generated

Rs. 26, 45, 000/-

6.6 Whether annual financial audit has been done

Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	---	Yes	Staff Council of the college
Administrative	No	---	Yes	Principal, Vice-Principal and Registrar

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes

Yes

No

For PG Programmes

Yes

No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Semester system has been introduced in all the under-graduate and post-graduate programmes.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The University is helpful to the affiliated colleges interested in getting the status of autonomous institution.

6.11 Activities and support from the Alumni Association

A function of Alumni Association named Alumni meet is conducted every year to take suggestions to improve the functioning of the college. It also helps to strengthen the placement cell of the college.

6.12 Activities and support from the Parent – Teacher Association

Regular feedback is obtained from the parents by the offices of Principal and College Registrar. Their views help the institution to improve teaching-learning - process and overall discipline in the college.

6.13 Development programmes for support staff

The Support Staff is provided uniform and financial assistance in case of any emergency by the college.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Polythene is banned within college campus.
- The use of cycles is promoted in order to decrease the air pollution. The students bringing cycles are provided free parking.
- Tree plantation function is organised from time to time to make the earth clean and green.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Post Graduate students of the college are provided passwords of access NLIST.

Teachers after attending Refresher/Orientation course give presentation to staff.

Practical training of language is imparted to the students of English in Language Lab.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

As per the decision made in the meeting of IQAC, PG department of English and UG departments of commerce and Bio-technology organised National level conferences. PG Department of History in collaboration with Gandhian Studies Centre organized an international level Conference and PG Department of History in collaboration with Ambedkar Studies Centre organized national level Conference to promote research and research related activities among faculty and post graduate students. On the advice of this cell, basic amenities for students and teachers including drinking water and toilets, in particular, were improved. 4 Air Conditioners were installed in the dining hall of Girl's Hostel and indoor games were also provided as per requirement. A number of new books were purchased in the Library. A number of extension lectures were also organised by different departments.

The points/issues which were not yet fulfilled are taken forward for positive completion in the next year out of which some are subject to the approval of funds from UGC as applied.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

Annexure-VIII

7.4 Contribution to environmental awareness / protection

Students of under-graduate classes study the subject of Environmental Studies. The department of NSS organizes seminars/rallies for environment protection. All this enlightens the students to make the environment clean.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Swot Analysis

Strength

- Experienced and dedicated staff
- Research oriented staff

Weakness

- Limited availability of the space and infrastructure
- Lack of funds
- Students from backward regions

Opportunity

- There is a good opportunity for the college to start UGC funded skilled development courses.
- There is great scope for the teachers to avail of UGC funded research projects.

Threat

- More and more students opting for professional colleges
- Threat from mushrooming of new institutions
- Students of the region migrates outside India after their secondary education

8. Plans of institution for next year

- To organise conferences and seminars and other research related activities.
- To introduce more smart class rooms in the college.
- To make smart ID cards of all the students of the college.
- To be prepared for next NAAC inspection.

Annexure-VIII

The two best practices observed by the college are:

- **Decentralization of administration**
- **Autonomy to the teaching departments**

Decentralization of administration

Goal

Administration has been completely decentralized in the college by the creation of following Secretariat offices:

- Registrar
- Dean Examination and Programming
- Bursar
- Dean EMA
- Dean Building

These offices are created in order to achieve the following objectives:

- (i) To make Principal free from his routine paper work and provide him ample time and energy to concentrate on formulating policies and strategies for the development of the institution
- (ii) To provide opportunity to the faculty members to have administrative experience and contribute their expertise in the working of the college.

Context

Administration in the college has been decentralized by the creation of above mentioned Secretariat and Non- Secretariat offices.

These posts have been created for a period of two years and any faculty member with at least two years of experience can apply for these posts and the appointment is made on the basis of rules passed by staff council of the college. These posts were created for democratic and transparent functioning of the college since most of the workload of the college administration has been divided into these offices.

These offices help the Principal to engage with various bodies like affiliating university regarding starting of new courses/ addition of new unit in a particular programme/ issues relating to faculty improvement programme/any other issue, DPI colleges (Punjab) regarding fixation of salaries of staff members and timely release of grants and UGC and other related research granting agencies for the submission of applications and release of grant for development of infrastructure, purchase of equipment for Science Labs and development of facilities for co-curricular and extra-curricular activities.

Practice

As regarding the functioning of this practice, the college undertakes the following action programmes:

The college registrar discharges the following functions:-

- To organize orientation programme for new faculty members regarding polices of the institution.
- To organize mentoring programme for the students of first year / semester of all programmes
- To conduct college convocation and Prize Distribution Function.
- To address the queries of the students regarding any university work/attestation of documents/fee concession.
- Attestation of university examination form of the students.

The Bursar of the college helps the administration in formation of annual budget of the college and monitoring the outflow of funds.

Dean Building is responsible for construction /maintenance/ upkeep of infrastructure of the college. He is also responsible for providing uninterrupted power supply and safe drinking water in the college.

Dean Examination and Programming helps to frame time table of all the classes and is responsible for holding terminal/internal examination.

Dean EMA of the College organizes talent search programmes to explore co-curriculum potential of the students and conducts various cultural activities of the college. He also prepares the students for participation in youth festival at university / state / national level.

Evidence of Success

This practice has helped the college as follows:-

- It has helped in providing effective and transparent administration
- It has provided faculty members to gain valuable administrative experience
- It has inculcated a sense of responsibility among the faculty members
- It has helped the faculty members to develop leadership quality
- It has helped the students in the redressal of their problems
- It has helped in maintenance of discipline in the college

- It has helped the Principal to devote his energy to more constructive works
- It has provided forum of office bearers to the Principle to hold consultations on policy matters/any emergent issue

Problems Encountered & Resources Required

The practice of this policy did not encounter any significant problem, the minor problem encountered in this practice was distribution of duties in various offices and it has been well settled by the staff council.

Office bearers are paid nominal allowance of Rs. 400 to Rs.1000 per month. Hence not much of finance is involved in it.

Autonomy to the Teaching Departments

Goal

Complete autonomy is provided to the teaching departments in order to:

- Provide involvement of all the faculty members in the functioning of the college
- Evaluate workload and provide allocation of faculty members of the departments
- Hold departmental meetings to devise strategy to handle new curriculum
- Forward views of the members on any curriculum designing through their representative on the board of studies in their subject at the university
- Brief the HoD about the view of the members of the department on any policy matter to be discussed in staff council meeting
- Guide the new faculty members in improving their teaching learning process
- Appoint co-ordinators for each course/ programme
- Organize co-curricular activities of the departments

Context

In the beginning, the departmental allocation and all issues concerning the teaching departments were decided by the Principal of the college. This led to a few favourable teachers being always allotted the main classes. This led to frustration and ill-will among the teachers. It was, therefore, decided that the allocation of the workload of all the faculty member be decided by the concerned HoD in consultation with other members of the departments in the departmental meetings. Also the various teaching departments have the liberty of organizing various curricular/co-curricular activities like seminar / conference / workshop.

Practices

The implementation of this practice is observed as follows:

The HoD of each teaching department convenes a meeting of the department before the summer break to finalize allocation of the members of the department for the next academic session.

The various teaching departments assign the responsibility to different members of the department for the preparation of schedule of work for different programmes.

The various teaching departments finalize academic and co-academic calendar of the activities of their departments.

The class coordinators monitor the uniform completion of syllabus as per schedule of work

The departments also organize guest lectures / seminars /workshops for interaction with scholars of their subjects.

Evidence of Success

This practice has helped the college as follows:-

- It provides equal opportunities to all the members of the departments in the allocation of work load since allocation is made on the basis of rules framed by the teaching departments
- It has helped in creative mutual trust among the members of the departments
- It has helped the Principal also to focus his energy more on developmental activities of the college and discuss only policy matters regarding working of the department with the HoDs
- It has inculcated a sense of responsibility among the members of the departments to work as a team to organize departmental activities like quiz contests/ guest lectures/workshops to improve teaching learning process

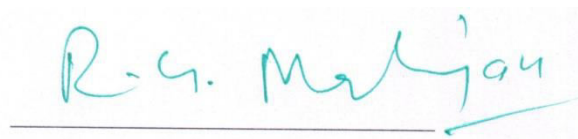
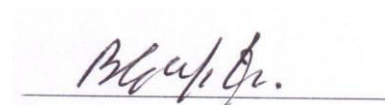
Problems Encountered & Resources Required

Since this practice was introduced to democratize the functioning of the teaching departments, no major problems were observed in the implementation of this practice. But every policy has its own p's and q's. A few minor problems encountered in the implementation of this practice are as follows:-

- Since allocation is made as per the norms laid down by the department so no alternation can be made even if better options are available to teach particular subject
- Since decisions in the departments are made on the basis of majority so sometimes some teachers develop a partial behaviour towards some colleagues.

Name: Dr. Bhanu Gupta

Name: Dr. Rajesh K. Mahajan



Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
