



MHRD

Government of India  
**Ministry of Human  
Resource Development**

**PANDIT**



**MADAN  
MOHAN  
MALAVIYA**

PANDIT MADAN MOHAN MALAVIYA

**NATIONAL MISSION ON TEACHERS AND TEACHING (PMMMNMTT)  
FACULTY DEVELOPMENT CENTRE**



“ Let your mind be full of determination  
for the good of everybody.  
Do not indulge in any work that  
harms the glory of the nation ”

- PANDIT MADAN MOHAN MALAVIYA

A Great Indian Educationist, Politician and Freedom Fighter





सत्यमेव जयते

**MHRD**

**Ministry of Human Resource Development**  
Government of India



**PANDIT** **M** **ADAN**  
**OHAN**  
**ALAVIYA**

PANDIT MADAN MOHAN MALAVIYA

**NATIONAL MISSION ON TEACHERS AND TEACHING**  
**(PMMNMTT)**

**FACULTY DEVELOPMENT CENTRE**





**VISION**  
**MISSION**  
**OBJECTIVE**

**Good Teachers are to education**

what education is to all other professions,  
the indispensable element,  
the sunlight and oxygen,  
**the foundation on which,**  
**everything else is built...**

-Lowell Miken

Government of India  
**Ministry of Human  
Resource Development**



PANDIT MADAN MOHAN MALAVIYA  
**NATIONAL MISSION ON TEACHERS AND TEACHING (PMMNMTT)  
FACULTY DEVELOPMENT CENTRE**

## VISION | MISSION | OBJECTIVE

### VISION

To inculcate among teachers the motivations to promote institutional effectiveness through the development of personal, instructional, organizational and professional growth of faculty.

### MISSION

To promote organizational strategies for faculty development so as to incentivise teachers to grow professionally and enable the institutions to grow

Faculty development is expected to result in improved teaching performance and better learning outcomes for students and teacher

Promotes new ways of thinking about the student-teacher relationship, and increased commitment to educational scholarship.

Developing all round skills are a prominent aspect for faculty development.

### OBJECTIVE

In general all the faculty members need to be provided the opportunities to participate in professional development programmes in order to enrich their knowledge. It is felt that opportunities to all the faculty members should be provided in attending :-

Training programmes (National and International)

Seminars/Conferences (National and International)

Internship programmes (National and International)

Summer Schools (National and International)

Exchange programmes (National and International)



Government of India  
**Ministry of Human  
 Resource Development**

PANDIT MADAN MOHAN MALAVIYA  
**NATIONAL MISSION ON TEACHERS AND TEACHING (PMMMNMTT)**  
**FACULTY DEVELOPMENT CENTRE**

## ABSTRACT

The MHRD introduced the schemes of Pandit Madan Mohan Malaviya National Mission For Teachers & Teaching(PMNMNTT) to address comprehensively all issues related to teachers, teaching preparation and professional development.

One of the major components of the scheme is Faculty Development Centre . As proposed the PAB approved 20 Faculty Development Centres across the country after considering & scrutinizing proposals put in front of the board.

With clearly defined vision & Mission statements and objectives Ministry of Human Resource Development made the expected action plan clear to the Faculty Development Centres.

The Faculty Development Centres across the country have taken this mission as a challenge & opportunity to improve quality of education in general & higher education in particular by helping the teachers for personal & professional development.

Since, inception of the programme till 31<sup>st</sup> March 2019 the centres have conducted total 418 Programmes covering 12454 participants. The overall programmewise breakup is as follows.

Workshop & Seminar	Total Programmes	Total Participants
FDP's	175	5638
RC	30	798
OP	7	136
Induction	28	871
Workshop	159	3882
Seminar	15	1011
Short term Course	4	118
<b>Total</b>	<b>—</b>	<b>----</b>

### Areas covered by the FDC's through various programmes

- Innovative teaching skills
- Microteaching
- Soft Skills
- Mentoring
- Nai Talim
- Curriculum Development
- Network Security & Hardware
- Tourism & Hospitality Services Management
- Animal Cell Culture
- Community Engagement
- E-Content Development
- Leadership For Change

The programmes conducted by all the Faculty Development Centres provided development opportunities to teachers from different backgrounds, locations, cultures & faculties. The programmes were offered to teachers pertaining to 18 different faculties.

Overall the efforts taken by all the Faculty Development Centres & Ministry of Human Resource Development team has made this component of PMNMNTT very successful not only in term of conducting programmes but also with respect to achieving the objectives of the component-Faculty Development Centre.



## FACULTY DEVELOPMENT CENTRE AT A GLANCE

No.	Name of the Faculty Development Centre	Name of the Coordinator	Page No
1	Banasthali University, Rajasthan	Prof. Aditya Shastri	05
	Banasthali University, Rajasthan 304022.	9928329955 adityashastri@banasthali.in, surana.ajay@yahoo.com	
2	Guru Nanak Dev University, Amritsar	Prof.(Dr.) Adarsh Pal Vig-Project Coordinator	09
	Guru Nanak Dev University, Amritsar, Grand Trunk Road, Off. NH1 Amritsar, Punjab 143001.	9417062796/8146016161 adarsh.botenj@gndu.ac.in hrdcgndu@gmail.com, hrdcgndu@yahoo.com	
3	Hansraj College, University of Delhi	Dr. Rama-Chairperson, 01127667458	13
	Hansraj College, Univeristy of Delhi, North Campus, Malka Ganj, New Delhi 110007	Dr. Jyoti Bhola-Coordinator ,9953681378 principal_hrc@yahoo.com, jybhola.24@gmail.com/jybhola@hrc.du.ac.in	
4	Hemvati Nandan Bahuguna Garhwal University, Srinagar	Prof. Indoo Pandey Khanduri-Director	19
	Hemvati Nandan Bahuguna Garhwal University, Srinagar, Garhwal,(Uttarkhand) 246174	9411355018 Indoo_khanduri@rediffmail.com fdchnbgu@gmail.com	
5	Indian School of Mines, Dhanbad	Prof. Anil Kumar Nirala   Dr. Mahendra Yadav	23
	Internal Road, Sardar Patel Nagar, Dhanbad, Jharkahand 826004	0326-2235001 9431125123 aknirala@gmail.com, mahendra@iitism.ac.in	
6	Institute of Chemical Technology, Mumbai	Dr. Vikas.N.Telvekar	29
	Institute of Chemical Technology, Mumbai, Nathalal Parekh Marg, Near Khalsa College Matunga, Mumbai 400019.	9372373309/9869539929 vikastelvekar@rediffmail.com vn.telvekar@ictmumbai@edu.in	
7	Iswar Saran Degree College, Allahabad	Prof. Anand Shankar Singh-Coordinator	33
	Iswar Saran Post Graduate College, Allahabad, Saloni Road, Uttar Pradesh 211012	Dr. Manoj Dubey-Coordinator 9415324671 , 9839140841 fdc.isdc@gmail.com	

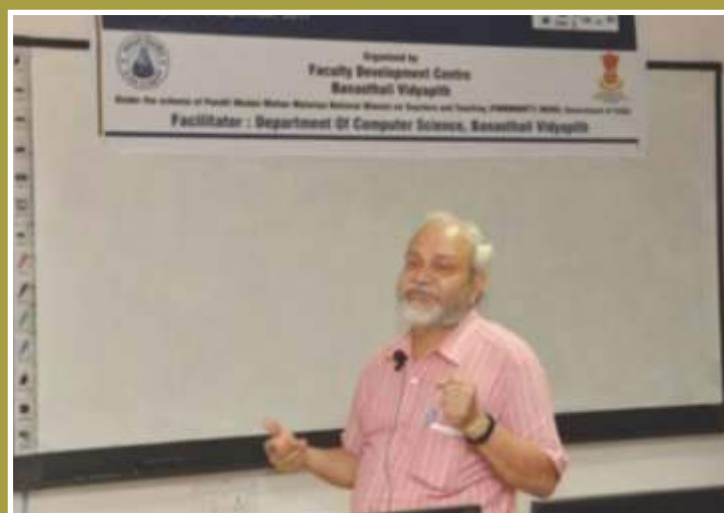
No.	Name of the Faculty Development Centre	Name of the Coordinator	Page No
8	Joint FDC Babasaheb Ambedkar Technological University, Raigad, Maharashtra & Approved as a joint Project, Veermata Jijabai Technological Institute, Mumbai	Prof. A W Kiwelekar-Coordinator-DBATU Dr. Valmik B. Nikam-Coordinator-VJTI	37
	Dr. Babasaheb Ambedkar Technological University, Lonere, Tal, Mangaon, Dist. Raigad 402103. Veermata Jijabai Technological Institute, H.R. Mahajani Road, Matunga, Mumbai	9890456659/7588713195 9421259200/7666259200 awk@dbatu.ac.in, vbnikam@it.vjti.ac.in	
9	Kurukshetra University, Haryana	Prof. Neera Verma-Project Coordinator Dr. Taruna C. Dhall-Prog. Coordinator	41
	Kurukshetra University, Kurukshetra, Haryana 136119	9416035388 9896247294 nverma@kuk.ac.in, fdckuk2018@gmail.com tarunacd@gmail.com	
10	Maharshi Dayanand University, Rohtak	Prof.Surendra Kumar-Director/ Dr. Madhuri Hooda-Coordinator	45
	Maharshi Dayanand University, Rohtak, Delhi Road, Univeristy Secretariat, Rohtak, Haryana 124001	9215379708/8295081122 dir.fdc@mdurohtak.ac.in hoodamadhuri@gmail.com dd.fdc@mdurohtak.ac.in	
11	Mahatma Gandhi Kashi Vidyapeeth, Varanasi	Prof. Arvind Kumar Pandey-Coordinator	49
	Mahatma Gandhi Kashi Vidyapeeth, Station Road, Maldahliya Crossing, Maldahiya, Kashi Vidyapeeth, Chetganj, Varanasi, Uttar Pradesh 221002.	Dr. Alok Dvivedi-Coordinator 9451894651/9453790108 arvindkumarpandey62@gmail.com,	
12	Mizoram University	Prof. Lokanath Mishra-Project Coordinator	53
	Mizoram University, Aizawal, Mizoram 796004	9457115093 mishra.lokanath70@gmail.com fdc@mzu.edu.in	
13	National Council of Rural Institutes, Hyderabad	Dr.W.G.Prasanna Kumar-Coordinator Dr.K N Rekha-Coordinator	57
	National Council of Rural Institutes, Hyderabad, L.B. Stadium Road, Band Colony, Hill Fort Road, Hyderabad, Telangana 500004	9849908831/9160093544 wgpkncri@gmail.com drrekhakrushana@gmail.com, fdc@mzu.edu.in	
14	Punjabi University, Patiala	Dr. Jasraj Kaur	63
	Punjabi University, Patiala, Punjab NH 64, Urban Estate Phase II, Patiala, Punjab 147002.	9855465521 gilljk@ymail.com, headeducationpup@gmail.com	





No.	Name of the Faculty Development Centre	Name of the Coordinator	Page No
15	Savitribai Phule Pune University, Pune	Prof.(Dr.) Sanjeev Sonawane-Director Dr. Sachin S. Surve-Coordinator	67
	Faculty Development Centre, UGC-Human Resource Development Centre, Savitribai Phule Pune Univeristy, Pune 411007	9890178190/9850628944 sonsanjeev63@gmail.com survesachin7@gmail.com fdchrdcsppu@gmail.com	
16	Shivaji University, Kolhapur	Prof.(Dr.) Rajanish K. Kamat-Coordinator	71
	Shivaji University, Kolhapur Vidyanagar, Kolhapur 416004	9028001068 raj_kamat@yahoo.com rkk_eln@unishivaji.ac.in	
17	Shri Mata Vaishnao Devi University, Jammu	Prof. D. Mukhopadhyay/ Dr. Samir Vhora	75
	Shri Mata Vaishno Devi University, Jammu Network Centre, Sub Post Office, Katra, Jammu and Kashmir 182320	9419999202 mukhopadhyay.dinabandhu@gmail.com, registrar@smvdu.ac.in vc@smudu.ac.in, dinabandhu_mukherjee@smvdu.ac.in	
18	Sydenham College of Commerce & Economics, Mumbai	Dr. Sangita V. Pakade-Chairperson Dr. Khushpat Jain-Coordinator	79
	Sydenham College of Commerce and Economics, Mumbai, B-road, Churchgate, Mumbai 400020.	9422915865./9869422915/865 svpakade@rediffmail.com sydprincipal@yahoo.co.in ksjain2002@yahoo.com	
19	Tamil Nadu Teachers Education, Dindigul	Dr. M. Govindan	83
	Tamil Nadu Teachers Education, Karapakkam, Chennai 600097.	9442661408 govindanedn@gmail.com	
20	Tripura University	Prof.V L Dharurkar,VC- Coordinator Prof. Anjan Mukherjee-Project Coordinator Prof.M K Singh-Project Coordinator	85
	Tripura University, Suryamaninagar, (West Tripura) Agartala, Tripura 799022	8329916698/9436453970 vc@tripurauniv.in fdc@tripurauniv.in mksingh@tripurauniv.in	







Banasthali University, Rajasthan

**A PROFILE**

1	Name of the Parent Institute	Banasthali Vidyapith
2	Project Duration	Since : 30-12-2015 To : 01.03.2020
3	Details of PAB ( proposal approved )	Fourth Project Approval Board 15-12-2015
4	Actual date of initiation	01.01.2016
5	Detail of Director / Coordinator	

Name : **Professor Aditya Shastri**  
(Vice-Chancellor)

Address : Banasthali Vidyapith, P.O. Banasthali Vidyapith, District Tonk,  
Rajasthan, PIN304022

Phone / Mob. : 01438-228787, 09928329955

E mail Address (Personal) : adityashastri@banasthali.in

Office : vc@banasthali.in

Name : **Prof. Dipjyoti Chakraborty**

Phone / Mob. : 9474537408

E mail Address : cdipjyoti@banasthali.in

Name : **Dr. Ajay Surana**

Phone / Mob. : 9314295395

E mail Address : surana.ajay@yahoo.com, ajaysurana@banasthali.in



## B SUMMARY OF PROGRAMMES CONDUCTED

S.No.	Title	No Of Programmes	No. of Participants
1	Faculty Development Programs	39	1496
2	Seminars	1	34
3	Workshops	7	240
4	Induction Programmes	4	155

- **overall average age of the participants** : 30-40 years
- **overall average experience of the participants** : Good

## C The Major Highlights Of The Various Programmes Conducted By The Faculty Development Centre

The state of art Faculty Development building civil work completed within the time duration. The programs run at the Faculty Development Centre, Banasthali Vidyapith is a strategically positioned to satisfy the huge need for effective and need-based faculty development programs across all disciplines of higher education i.e. Fine Arts, Home Sciences, Humanities, Life Sciences, Management, Mathematics and Computing, Physical Sciences, Social Sciences, Design, Law, Commerce, Teacher Education etc.

The FDC programs include all the four types of development (personal, instructional, organizational and professional) of faculty of Higher education as envisioned under the PMMMNMTT scheme.

More than 50 Faculty Development programs conducted under FDC, Banasthali Vidyapith during the project period with 1900+ participants directly benefited. Majority of the participants (more than 70 percent) were female faculty members of higher education. Faculty development programs conducted has ranged from less than one week to one-month duration. Majority of the Programs were designed for the duration of 7-15 days.

FDC, Banasthali Vidyapith conducted 4 one month Induction Training Programs and 149 newly recruited faculty members oriented through the suggested curriculum framework of PMMMNMTT. The Faculty development programs conducted by the Faculty Development Centre, Banasthali Vidyapith has near pan-India participation. In addition to candidates from Rajasthan, participants have come from Chhattisgarh, Uttar Pradesh, Maharashtra, Himachal Pradesh, Gujarat, West Bengal, Uttarakhand, Delhi, Haryana, Jammu Kashmir, etc.



**D****The Major Learning Outcomes Or Take Aways From The Programs Conducted**

From the Faculty Development Centre, Banasthali Vidyapith the participant faculty members were able to explain their academic and non-academic roles in an institute/university. They showed their enthusiasm to develop scientific temper, spirit of inquiry and discovery. They developed their skills to contribute to the growth and development of curriculum in their respective University. They strengthened their ability in the utilization of various online tools in the context of research and content development. They also learned the usage of different online electronic tools and had their hands on experience effectively. They enhanced their personal traits through various programs like financial management, stress management. The faculty members after participation developed the roadmap of excellence and a shared vision. They learned to use various evaluation techniques and approaches. They took interest in different methods and techniques related to teaching and enhanced skills of teaching in different set-up.

The development of faculty of higher education formalized at 'Faculty Development Centre' Banasthali Vidyapith through incorporating specific topics on value education in the programs conducted. As an ideal teacher they will be able to identify the reflection of values in the courses that they teach, find ways and means to transact/ highlight these values in their regular classes so that it becomes a natural way of life for the students and is reflected in each and every activity. Through these endeavors, teachers would be inspirational role models for the students.

The young faculty members build up their personality and soft skills for professional efficacy. This covered gender sensitive issues like enhancing self, developing interpersonal skill, life planning issues and career development







## Guru Nanak Dev University, Amritsar

### A PROFILE

1	Name of the Parent Institute	Guru Nanak Dev University, Amritsar, Punjab
2	Project Duration	Since : 2017-18 To : 2019-20
3	Details of PAB ( proposal approved )	10th PAB Meeting dated 20.12.2017
4	Actual date of initiation	13.03.2018 (Date of the first Program under FDC)
5	Detail of Director / Coordinator	
	Name	: <b>Prof. (Dr.) Adarsh Pal Vig,</b> Project Coordinator, FDC (Professor, Deptt. of Botanical & Env. Sciences)
		<b>Dr. Mohan Kumar</b> Dy. Project Coordinator, FDC
	Address	: O/o the UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar-143005
	Phone / Mob.	: 9417062796, 8146016161
	E mail Address (Personal)	: adarsh.botenv@gndu.ac.in
	Office	: hrdcgndu@yahoo.com, hrdcgndu@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2017-18	Workshops	1	12	26	5	2	0	27	4	0	27	11	38	0	38
	Seminars	1	17	25	6	3	0	28	5	0	28	14	42	0	42
2018-19	Induction Training Programme	1	8	22	5	1	0	19	5	0	14	16	25	5	30
	Workshops	3	40	76	17	4	0	80	15	0	85	32	108	8	116
	Seminars	2	30	37	7	3	0	48	9	0	45	22	56	11	67

- **Overall Average age of the participants : 33 Years**
- **Overall Average experience of the participants : 5 years**

## C Major highlights of the various programmes

One Induction Training Programme, four Workshops and three Seminars (as per Annexure-I) were conducted successfully in the preceding years. What stands out is the fact that these programmes attracted nearly 300 participants, not only from Punjab and neighbouring states, but also from the far flung states of the country. The participants included the teachers engaged in the higher education from a heterogeneity of the academic disciplines. The participants were brought face to face with the renowned academicians pertaining to a wide spectrum of disciplines, not only in the seminar halls, but also informal interactions with the participants were one of the major hallmarks of these programmes. The interaction with the participants was confined not only to the theory, but hands-on workshops were also major components of the curricula, where ever possible. The participants were encouraged to have dialogue with the concerned resource persons rather than to listen passively to a monologue. So far as the learning outcomes of these programmes were concerned, the participants of the Induction training Programmes were evaluated at the end of the Programme, as per UGC-HRDC guidelines. Out of total eight programmes, three programmes were designated as interdisciplinary, which were attended by the participants from across a multiplicity of disciplines. Such programmes provide a rare platform to the participants to interact with each other and to have brief insight into the developments taking place in the other disciplines.





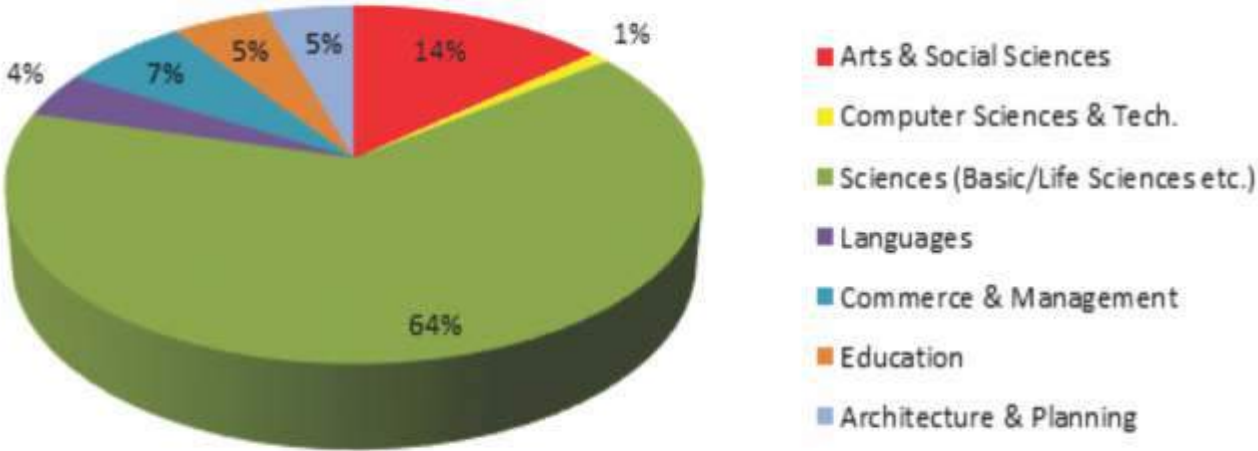
**D** The major learning outcomes or take aways from the programs conducted

As per the feedback obtained from the participants at the end of the each Programme, they went back to their respective places, after having refreshed, enhanced their expertise, not only in their respective discipline, but also succeeded in having a broader insight into the developments in the allied disciplines. The emphasis was not only on augmenting their competence, but also on improving their pedagogical skills by incorporating ICT and other supplementary tools, which play a long way in imparting the knowledge to the students in a better way. The effective utilization of MOOC Programmes in teaching learning programmes was also one of the major highlights of these programmes, which was highly appreciated by one and all. The role of teacher is not only confined to classroom teaching, but also to assess and evaluate their learning outcome. Accordingly, the participants were apprised with the modern evaluation and assessment techniques. The role of academic leadership in grappling the challenges being faced by the higher education sector in the country was emphasized. The participants also felt themselves well informed about the various funding agencies like UGC, DBT, ICSSR, ICHR etc., which are responsible to promote the authentic research in their respective disciplines in the country. The participants were acquainted with the various stakeholders in the domain of higher education in the country beginning, from the MHRD, UGC, University's Acts, Statutes and Ordinances, University Structure, NAAC, NIRF ranking, accreditation bodies etc., Colleges Structure and Administration.

**E** List of/Details of resource material generated

Not any, as of now.

**F** FACULTYWISE DISTRIBUTION OF PARTICIPANTS





# Mahatma Hansraj Faculty Development Centre

Hansraj College, University of Delhi





## Hansraj College, University of Delhi

### A PROFILE

1	Name of the Parent Institute	Mahatma Hansraj Faculty Development Centre, Hansraj College
2	Project Duration	Since : 1st, August 2018 To : 31st, March 2020
3	Details of PAB ( proposal approved )	XI PAB
4	Actual date of initiation	1st , August 2018
5	Detail of Director / Coordinator	

Name : **Dr. Rama**  
(Chairperson)

Address : Hansraj College, Malka Ganj Delhi-110007.

Phone / Mob. : 01127667458

E mail Address (Personal) : principal\_hrc@yahoo.com

Office : principal\_hrc@yahoo.com

Name : **Dr. Jyoti Bhola**  
(Coordinator)

Address : Hansraj College, Malka Ganj Delhi-110007

Phone / Mob. : 9953681378

E mail Address (Personal) : jbhola.24@gmail.com

Office : jbhola@hrc.du.ac.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Faculty Development Programme	7	164	144	DATA NOT AVAILABLE						284	24	284	-	308

- overall average age of the participants : 39 Years
- overall average experience of the participants : 12 Years (as per the data available)

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

- Socially inclusive (National level participation in all programmes)
- ICT enabled programmes
- Collaboration with other institutions
- Focus on enhancing personal, instructional & research skills of the faculty
- Engaged academicians / researchers of repute to conduct the sessions

## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

The centre has conducted a wide array of programmes ranging from research methodology to various contemporary issues. Each Faculty Development Programme was designed to ensure that the participants were enriched with the nuances of the issues contemporary to the post-modern education system and other academic related issues.

The programmes took the participants from understanding the basics of the various issues to slightly advance levels. There were brainstorming sessions to discuss the problems faced by today's economy, research problems faced by academicians and to discuss the direction of future research and education.

From the participants' point of view, the programmes were well designed. Not only the participants were contended with current programmes, but were also excited to attend the future programmes of the centre.



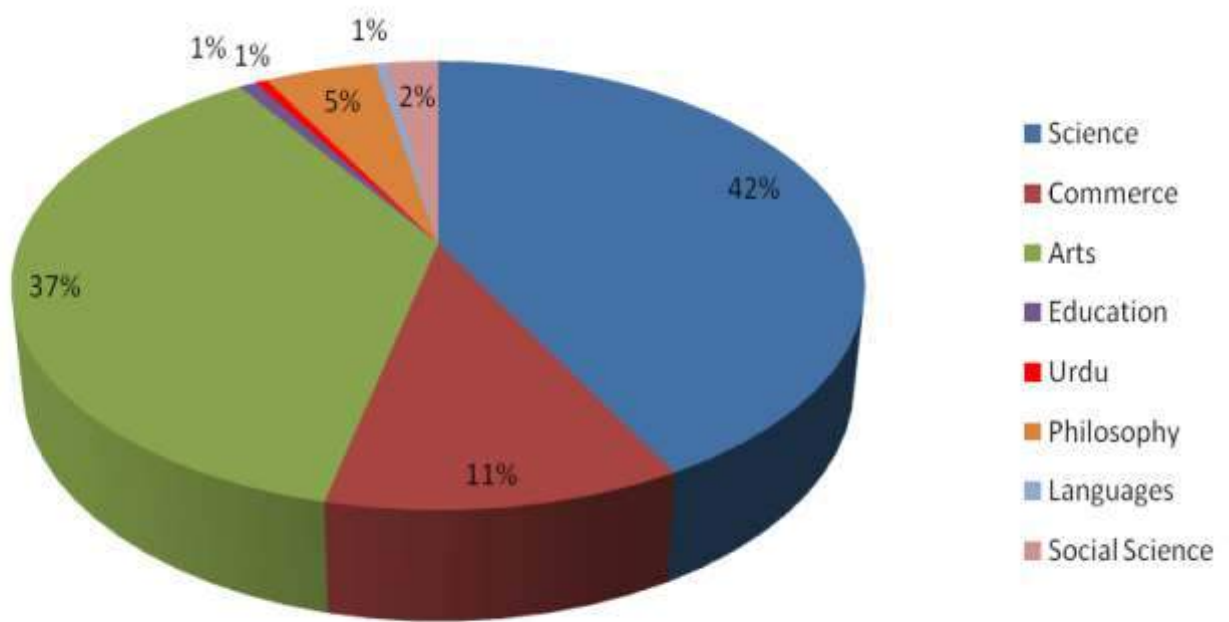
## **E** LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED

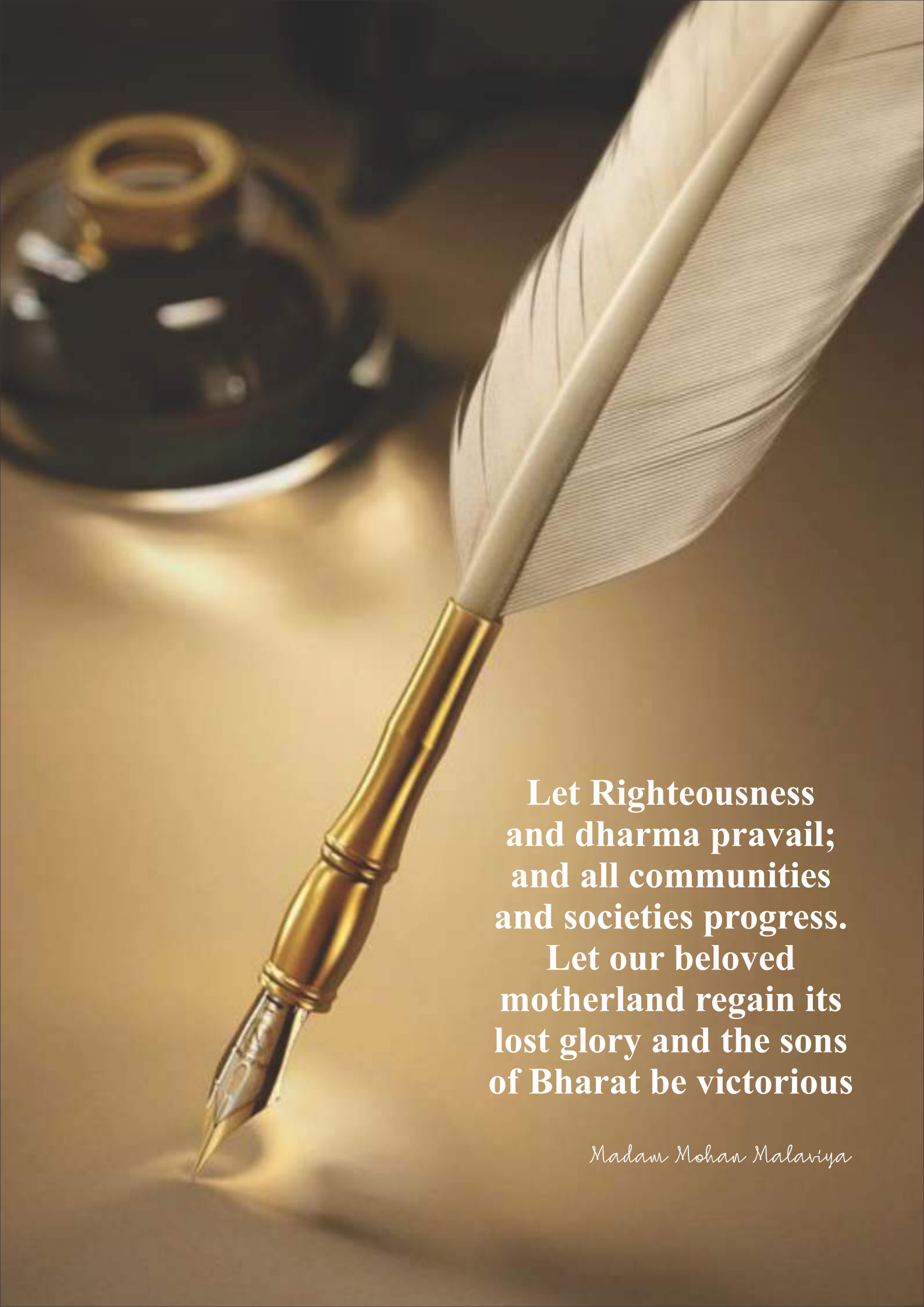
**The Faculty Development Centre Hansraj College, University of Delhi through the different programmes conducted has generated resource material in form of PPT/PDF. Some of the topics for which resource material is generated are listed below:**

- Introduction to the Software Package IBM SPSS
- Image processing using MATLAB
- Introduction to Mathematical
- A User's Guide to LaTeX
- Odds and Ends in LaTeX
- Open Source Software Packages for Mathematics
- Usage of Software Packages in Education
- SEM and hands on session
- Publishing a research paper in Indexed Journal
- Aspects of Network Security
- An Introduction to Artificial Intelligence
- Introduction to Artificial Intelligence and Its Applications
- Number Theory for Cryptography
- Information Security and Encryption—I
- Cryptographic Protocols -I
- Applications of Algebra to Cryptography
- Information Security and Cyber Crime-I
- Introduction to Block Chains
- Multicast Security
- Social Impacts of Artificial Intelligence -I
- Technology and Higher Education: Opportunities, Challenges and Strategies-I
- Crypt Analysis of Symmetric Key Cipher: Classical to Modern
- Role of AI in Cyber Security
- Digital signature and public key infrastructure
- Cyber Law Expert
- Data and its discontents : the political economy of disinformation in India
- Understanding e-commerce
- Behaviour And Experimental Economics
- Doing Research In Public Finance: Some Issues And Challenges With Existing Data Sources
- Micro And Macro Issues For Research In Agriculture
- The Persistent Effect Of Son Preference On Crime In India : Evidence& Mechanisms
- Industrial Statistics In India
- Methods Of Productivity Measurement And Analysis: Applications To Indian Manufacturing
- Interpreting Results From Logistic Regression Models And Models With Interaction Terms
- Make In India- Why Didn't The Lion Roar?
- Non-Conventional Energy, Equity And Sustainability: Indian Experience
- Technology And The Future Of Jobs
- Growth Characteristics Of The Unorganised Sector In India In The Post-Reform Era

- Introduction To Agreement On Agriculture
- The WTO And Food Security
- Issues In Economics Research: Some Considerations
- Introduction To Indian Industrial Statistics
- An Introduction To Latex
- Public Health Surveillance
- Public Policy Effectiveness: Why Social Norms, Evidence And Process Matter
- Understanding And Dealing With Large Scale Survey Data

**F FACULTYWISE DISTRIBUTION OF PARTICIPANTS**



A close-up photograph of a fountain pen nib and a quill pen resting on a surface, with an inkwell in the background. The fountain pen is gold-colored and the quill is white. The inkwell is dark and has a gold-colored rim. The background is a warm, golden-brown color.

**Let Righteousness  
and dharma prevail;  
and all communities  
and societies progress.  
Let our beloved  
motherland regain its  
lost glory and the sons  
of Bharat be victorious**

*Madam Mohan Malaviya*







## Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)

### A PROFILE

1	Name of the Parent Institute	<b>HNB Garhwal University</b>
2	Project Duration	Since : 15/12/2015 To : 31/03/2020
3	Details of PAB ( proposal approved )	4th PAB (15/12/2015)
4	Actual date of initiation	30/12/2015

#### 5 Detail of Director / Coordinator

Name : **Prof. Indoo Pandey Khanduri**

Address : Room No. 211, II Floor, Administrative Block-II  
HNB Garhwal University, Srinagar Garhwal  
Uttarakhand-246174

Phone / Mob. : 01346-252930 (O) Mob : 9411355018

E mail Address (Personal) : indoo\_khanduri@rediffmail.com

Office : fdchnbgu@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2019	National Workshop	01	23	01	02	01	00	20	01	00	08	16	15	09	24
2018	National Workshop	03	102	27	12	02	00	99	16	00	55	74	111	18	129
2018	Orientation Programme	01	20	08	05	-	00	22	01	00	00	28	28	00	28
2018	Induction Training Program	01	11	08	04	00	00	13	02	00	03	16	19	00	19
2018	National seminar	01	51	16	N/A	N/A	N/A	N/A	N/A	N/A	38	29	60	07	67
2017	National Workshop	01	46	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	02	56
2017	Short Term Course	01	24	10	03	00	00	27	04	00	25	09	34	00	34
2016	Short Term Course	02	36	18	07	00	00	42	05	00	06	48	43	11	54

- overall average age of the participants : 39 Years
- overall average experience of the participants : 8.5 Years

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

- Till so far, the Centre has organized 11 programmes including one Orientation Programme of 28 days, one Induction Training Programme of 30 days, 3 National Workshops of one week duration each, one National Workshop of 3 Days and 03 short term courses of 6 days duration for faculty members of universities and colleges. Also, a weeklong national workshop on Communication Skills, Emotional Intelligence and Scientific Temperament for teachers of Secondary schools.
- A Total number of 411 participants were trained on different aspects like- Management of Tourism and Hospitality Services; Research Methodology; Concept, Role and Scope of Open Educational Resources. However, the contents of Orientation and Induction Training Programmes were based on the modules provided under PMMMMNTT scheme. An Induction Training Programme of one month duration was conducted during May 15<sup>th</sup> to June 13<sup>th</sup>, 2019.



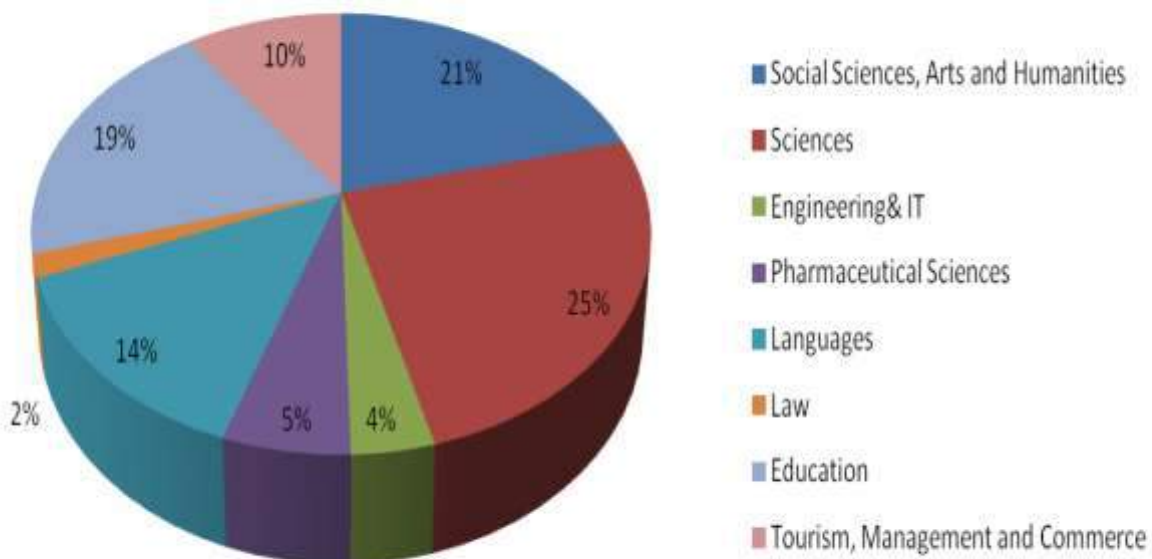
## D

### THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

1. Participants learnt to develop OERs and MOOCs and also acquired hands-on training of different software like presentation tube, audacity, autocad, moodle etc.
2. Tourism and Hospitality teachers were given a hands-on training of using the global distribution software, AMEDEUS, for booking tickets and hotels.
3. Hands-on training of statistical software like SPSS, Excel, Design of Experiments, was given to participants during workshop on Research Methodology.
4. Participants of Induction and Orientation programmes were trained to write and present the report of technical sessions as per module.
5. During Induction Training and Orientation Course participants were trained to write research proposals, research papers and research reports which was then evaluated by the resource persons.

## E

### FACULTY WISE DISTRIBUTION OF PARTICIPANTS







## Indian School of Mines, Dhanbad

### A PROFILE

1	Name of the Parent Institute	INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD
2	Project Duration	Since : 10.07.2015 To : 31.03.2020
3	Details of PAB ( proposal approved )	2nd PAB (10.07.2015)
4	Actual date of initiation	30.09.2015
5	Detail of Director / Coordinator	
	Name	: <b>Dr. Anil Kumar Nirala</b> Professor & HOD, Dept. of Physics
	Address	: Indian Institute of Technology (Indian School of Mines), Dhanbad 826004 Jharkhand (India)
	Phone/Mobile	: 9431125123
	E mail Address	: aknirala@gmail.com
	Name	: <b>Dr. Mahendra Yadav,</b> HOD, Dept. of Chemistry
	Address	: IIT(ISM), Dhanbad
	E mail Address	: mahendra@iitism.ac.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2015-18	1.Orientation Programme	01	45	09	-	-	-	-	-	54	18	36	53	01	54
	2.Workshop/National Conference	06	261	109	26	8	-	100	69	86	277	93	307	63	370
	3. Refresher Programmes	06	164	23	16	4	0	36	16	115	26	160	60	127	187
	4. Induction Training/ Orientation Programme	01	102	29						-	40	91	117	14	131

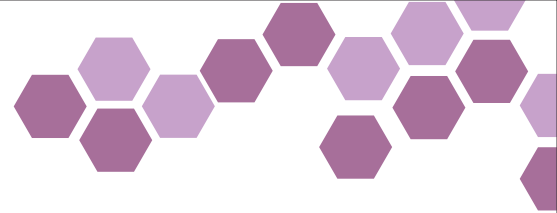
- overall average age of the participants : 37 years (approx).
- overall average experience of the participants : 4 years (approx).

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

1. Total number of Programme conducted : 14

Type of Programme	Numbers
National Confrence	01
Induction/ Orientation Programme	02
Refresher Programme	06
National Training Programme	05
Total	14

2. Total number of Participants : 742
3. Experts from IISc Bangalore, IIT Kharagpur, IIT Delhi, IIT BHU, IIT Mumbai, IIT Madras, IIT Kanpur and other renowned institutes like NIT Raurkela, NIT Jamshedpur, NIT Patna, BIT Mesra, TIFR Mumbai, NCL Pune, NPL New Delhi, IISER Bhopal, S. N. Bose Institute, Delhi University, Jadavpur University, SRM University had delivered their talks in various Orientation/ Induction/ Refresher/ Nation Training Programmes.
4. The programme conducted by FDC covered various areas of teaching and research (like Engineering, Science, Humanities, Social Science).
5. All the programme of FDC received huge appreciation and positive feedback from the participants for the content delivered, quality of talks, facilities provided, institutional infrastructure etc.

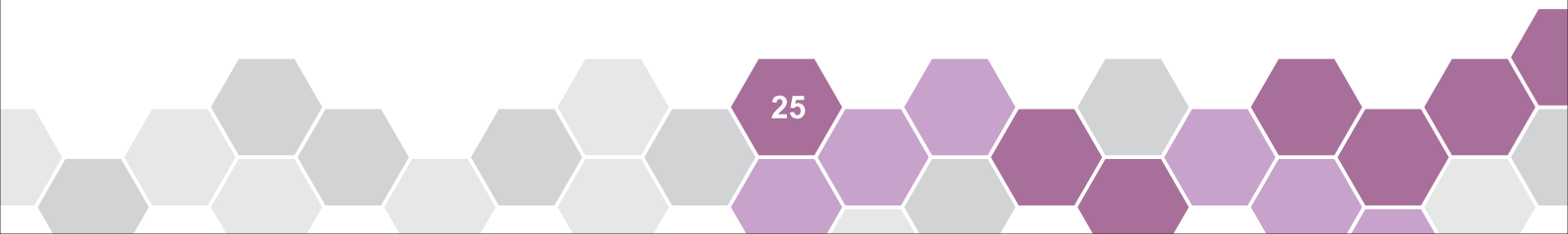
**D****THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

1. Hands on training/ practice session were conducted for the participants in the programmes of Science and Engineering.
2. The participants were taught basic to advanced level topics from the renowned experts from institutes like IITs, NITs, Central Universities and other research institutes.
3. The entry level participants of Orientation and Induction programmes were benefited by learning their roles and responsibilities in their respective organization.
4. The participants have learnt recent discoveries and progress in their respective areas through Refresher, Induction and National training programmes. They were also benefited by interaction with renowned experts across the country.

**E****LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

**The Faculty Development Centre at Indian School of Mines, Dhanbad has generated resource material through the experts invited for different programmes. Some major topics are listed below:**

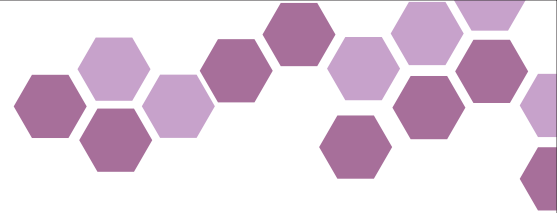
- |  |   |
|--|---|
| 1. Orientation Programme                           | xix. Teachers Management  |
| i. Reflective Practice,                            | xx. Water Recharge and Conservation                                     |
| ii. RTI  | xxi. Indian Economics   |
| iii. Remote Sensing                                | xxii. Application of Power point in Teaching and high-tech Class Models |
| iv. Life span and Research of Prof C V Raman       | xxiii. Hindi Sahitya  |
| v. Ethics  | xxiv. Thinking Skills   |
| vi. Daily Life style and Health issues             | xxv. Learning and Learners  |
| vii. Use of Fibre Optics in Communication          | xxvi. Veda and Religion   |
| viii. Applications of Nanotechnology in Daily Life | xxvii. Bhasa Sahitya  |
| ix. Way of Teaching                                | xxviii. Teaching Skills   |
| x. Water Pollution                                 | xxix. Philosophy of Pt. Madan Mohan Malviya                             |
| xi. Optical Tools in Disease Diagnostics           | xxx. Veda and Religion  |
| xii. Baudhik Philosophy                            | xxxi. Veda and Human Values   |
| xiii. Research Methodology                         | xxxii. Heart Disease  |
| xiv. Computer Applications                         | xxxiii. Development of Scientific Mind                                  |
| xv. Indian Meta Physics                            | xxxiv. Constitution   |
| xvi. Clean Coal Technology                         | xxxv. Geo-Thermal Energy  |
| xvii. Indian Economics                             | xxxvi. HIV Virus and ZiKa Virus   |
| xviii. Use of free Softwres in Educations          |   |



2. Refresher Programme in Microwave Devices and Antennas
  - i. Recent Trends On Microwave Devices and Antennas
  - ii. Basics of Antenna Theory and Computational Electromagnetic Theory
  - iii. High Power Microwave Devices
  - iv. EMT Theory through Virtual Lab
  - v. Filter Theory
  - vi. Microwave Absorbing Coatings
  - vii. Microwave Materials
  - viii. Microwave Measurement
  - ix. RADAR (Radio Detection and Ranging)
  - x. Smart Materials of Stealth Technology
  - xi. Polymer Electronic Material And Radio Frequency(RF) Energy Harvesting
  - xii. Source Separation from Radar Signals
  - xiii. Radio Frequency Identification (RFID) Technique
  - xiv. Origin of Maxwell's equations and its magic in linear media
  - xv. Dielectric Resonator Antenna (DRA)
  - xvi. Transmission Lines Basics
3. Refresher Programme in Mathematical Sciences
  - i. Graph Theory
  - ii. The Role of Gauge Function in Elementary Real Analysis
  - iii. Integral Transform & Integral Equations
  - iv. Numerical Analysis.
  - v. Functional Analysis
  - vi. Number Theory
  - vii. Complex Analysis
  - viii. MATLAB
  - ix. Scientific writing with LaTeX
  - x. Topology
  - xi. Numerical Methods
  - xii. Mathematical Modelling
  - xiii. Topology
  - xiv. Object Oriented Programming
  - xv. Linear Algebra
  - xvi. Linear Algebra
  - xvii. Modelling for Wave propagation

4. Refresher Programme in Physics with special focus on Nano-Biotechnology Plasmonics and Photonic Devices
  - i. Towards Biomedical Applications
  - ii. Nanotechnology: History, Basics and Future Dimensions
  - iii. Crystal structure determination and refinement using powder diffraction and foolproof suite
  - iv. Organic Electronics Using Density Functional Theory
  - v. Microstructure and microvasculature imaging of tissue using a swept source optical coherence tomography and angiography
  - vi. Nonlinear Laser Scanning Microscopy (NLSM) for Bio-imaging
  - vii. Materials for optoelectronics devices
  - viii. Nanostructured Semiconductors: Properties and Applications
  - ix. Two Dimensional Materials
  - x. Luminescent material
  - xi. Crystal Structure and Defects in Solids
  - xii. Application Of Laser In Holography
  - xiii. Polymers and Polymeric Materials for Electronics and Optoelectronic Devices with Special Reference to Energy Materials From Particles to Strings
  - xiv. Electro spinning of Polymer Nanofibers
  - xv. Functional Polymers and Nanocomposites based Micro & Macro Platforms for Sensors and Bio-sensors
  - xvii. Scanning Probe Microscopy in Nano-Biotechnology
  - xviii. Optical Microscopy
  - xix. Protein-Nanoparticles Interactions: The Good, the Bad, and the Ugly
  - xx. Basics of Lasers and Lanthanides doped solid materials as upconverters, security ink and temperature sensors
  - xxi. Classical Density Functional Theory of

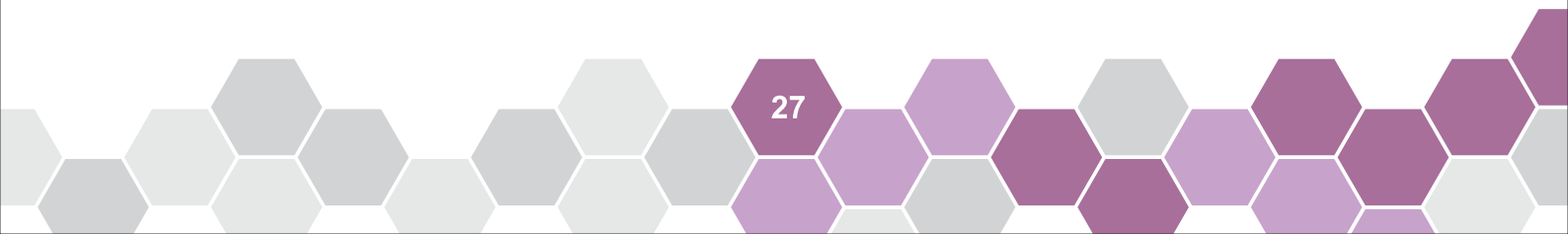




- Freezing
- xxii. Materials: Synthesis and Characterization
- xxiii. Raman Scattering
- xxiv. Biophotonic Approaches to Understanding Diseases –
- xxv. Electron Microscopy in Nanotechnology
- xxvi. The Fundamentals of Nanotechnology and Its Applications in Drug Delivery System
- xxvii. From Complexity to Simplicity: Use of Single Molecule techniques in Biophysics
- xxviii. The Central Nervous System (CNS)
- xxix. An Overview on Recent Advances in Nano-Biotechnology, a Multidisciplinary Branch of Science
  
- 5. National Training Programme on Mineral Processing
  - i. Introduction To Mineral Processing
  - ii. Crushing
  - iii. Grinding
  - iv. Electrostatic Separation
  - v. Dewatering
  - vi. Magnetic Separation
  - vii. Flocculation
  - viii. Operation And Control Of Grinding And Flotation Circuit
  - ix. Pelletization
  - x. Sintering
  
- 6. National Training Programme on Wireless Sensor Networks
  - i. Routing in Wireless Sensor Networks
  - ii. Energy Efficient Algorithms for Wireless Sensor Networks,
  - iii. Sweep Coverage in Wireless Sensor Networks,
  - iv. Distributed Algorithms on Connected Dominating Sets for Wireless Adhoc Networks,
  - v. Coverage-aware and mobility-based algorithms for wireless sensor networks,
  - 7. National Training Programme on Research Methodology
    - i. Global and National Fellowship Opportunities During and after Ph.D.
    - ii. Research Design: The Pragmatic World View
    - iii. Art of Slide Presentation
    - iv. Quality Of Higher Education In University
    - v. Indian Metaphysics
    - vi. Art of Writing Research Paper
    - vii. Inter and multidisciplinary Research
    - viii. Roles And Responsibilities Of A Teacher In Higher Education
    - ix. Verbal Ability: Prerequisites Of Effective Teaching
    - x. Various Types of Indexing Systems and Impact Factor (IF) of Journals
  - 8. National Training Programme on Advanced Material Characterization Techniques
    - i. Fundamentals of Steady State and Time Domain Fluorescence Spectroscopy
    - ii. Characterization of Nanostructures by Electron Microscopy: The Basics
    - iii. Materials characterization using impedance spectroscopy: An Introduction
    - iv. Optical Fiber beyond Communication

## **F** FACULTYWISE DISTRIBUTION OF PARTICIPANTS

- Faculty wise distribution (numbers) of the participants : Approximately 3







## Institute of Chemical Technology, Mumbai

### A PROFILE

1	Name of the Parent Institute	Institute of Chemical Technology
2	Project Duration	Since : 13 Sep 2018 To : 12 Sep 2021
3	Details of PAB ( proposal approved )	Xlth PAB
4	Actual date of initiation	13 Sep 2018

#### 5 Detail of Director / Coordinator

Name : **Dr. Vikas N. Telvekar**  
Project Coordinator, FDC  
(Professor, Deptt. of Pharmacetuties Sciences & Tech.)

Address : Institute of Chemical Technology, Mumbai 400019

Phone / Mob. : 22-3361 1111 / 9869539929 / 9372373309

E mail Address :

Personal : vikastelvekar@rediffmail.com

Office : vn.telvekar@ictmumbai.edu.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Workshop / Clinical Data Management	1	11	9	-	-	-	-			10	10	20	00	20
2019	Workshop / Pharmaceutical Marketing Management	1	6	4	4	-	-	-			7	3	10	00	10

\*not collected data category wise (Hence forwarded we will collect)

- overall average age of the participants : 36-38 Years
- overall average experience of the participants : 13-14 Years

## C THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

Clinical Data Management (CDM): CDM is an important part of clinical research, which leads to generation of high-quality, reliable, and statistically sound data from clinical trials. CDM assures collection, integration and availability of data at appropriate quality and cost. Clinical Data Management supports the conduct, management and analysis of studies across the spectrum of clinical research. After completing the course the students will understand the concepts of CDM and its execution. This will make them employable in the clinical research associated sponsor, CRO and BPO companies. The workshop consists of both theory and practical. By the end program they are expected to develop conceptual clarity and practical knowledge in the field of clinical data management.

Pharmaceutical Marketing Management (PMM): PMM program combines the study of basic and pharmaceutical sciences with marketing and management studies and that prepares individuals for careers in pharmaceutical sales, marketing, management, and related fields within the health care industry. Along with student will study the pharmaceutical industry from a business and marketing point of view as well as also study health care systems and legal issues. The workshop consists of both theory and practical. By the end program they are expected to develop conceptual clarity and practical knowledge in the field of Pharmaceutical Marketing Management.



## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

All participants expressed their satisfaction about the program and overall coordination of the faculties of the department as well as the whole program.

The Programme has enabled the participant faculty to understand the nuances of CDM and also various Clinical research domains. They will be able to design a curriculum to suit the industry needs. This will bridge gap between the Industry needs and students' skill sets offering better job opportunities to the students

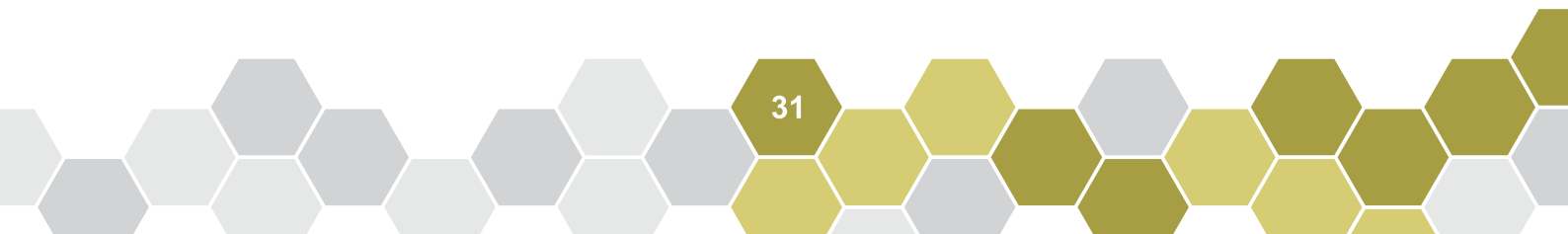
In case of PMM, The participants were liked the entire program and rolling out to them. The program helped them to burst them to understand in details about pharma marketing and practices. They realized that it is also a serious discipline and involves a lot more systematic research and insights. Participants promised to encourage to the students to consider it as a career. Overall rating was above 9 on a scale of 1 to 10 (maximum)

## E List of/Details of resource material generated :

No.	Course	Material Generated	
1	Clinical Data Management	Video of all lectures	PPT of all lectures
2	Marketing Management	Video of all lectures	PPT of all lectures

## FACULTY WISE DISTRIBUTION OF PARTICIPANTS

- Faculty wise distribution (numbers) of the participants : All faculty are from B. Pharmacy College







## Iswar Saran Degree College Allahabad

### A PROFILE

1	Name of the Parent Institute	Iswar Saran Degree College, University of Allahabad
2	Project Duration	Since : 01.08.2018 To : 31.03.2021
3	Details of PAB ( proposal approved )	Xlth PAB dated 17.07.2018
4	Actual date of initiation	01.10.2018

#### 5 Detail of Director / Coordinator

Name	:	<b>Prof. Anand Shanker Singh</b>
Address	:	Iswar Saran Degree College, University of Allahabad, Salori Road, Prayagraj-211004 (U.P)
Phone / Mob.	:	9415324671
Office (Phone & Fax)	:	0532-2544801
E mail Address	:	
Personal	:	isdc.ass@gmail.com
Office	:	fdc.isdc@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Faculty Induction Programme	01	24	6	1	0	0	23	6	0	26	4	29	1	30
2019	Workshop	03	76	56	3	2	0	87	40	0	76	55	98	34	132
2019	National seminar	01	152	90	33	20	0	109	77	0	188	51	223	17	240
2019	Induction Training Programme	01	20	20	1	1	0	25	14	0	31	9	40	0	40

- overall average age of the participants : 35 Years
- overall average experience of the participants : 10 Years

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

Faculty Development Centre aims for the holistic development of the teachers and accordingly plans and organizes the programmes. The major highlights of the various programmes conducted by FDC so far :

- Focus on amalgamation of tradition and modern method of teaching. For instance information about Cloud and Web 2 tools were delivered and a practical session was also conducted.
- The aim of education is to serve the greater good of the people so along with academics and administration focus on ethics and values have been emphasized by conducting lectures on it.
- In the era of technology and globalization the role of virtual and self instructional learning cannot be ignored. FDC has conducted lectures on it in the E-learning workshop and Induction Programme.
- Professionals related to academics know the importance of original work. To cater the need of contemporary times and to protect and prevent from fraudulence or literary theft, awareness about plagiarism, anti-plagiarism software and repercussions of plagiarism has been created. A practical session on the use of anti plagiarism software has also been conducted.
- Lectures on MOOCs, Swayam, E-pathshala, Inflibnet have been conducted for the benefit of the teachers.
- Importance of Academic writing cannot be overlooked therefore FDC imparted the skills of academic writing (Research Project, Research Proposal, Research Papers etc.) through the training cum workshop on Academic Writing





## **D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

Programmes conducted by Faculty Development Centre plays a critical role in promoting academic excellence and innovation amongst the participants. Experts from various fields delivered lectures and took practical sessions to disseminate knowledge and experience. Participants have heard about Swayam, MOOCs, E-content development but they were not aware about its details and benefits. So the training cum workshop on E-learning gave them opportunity to explore the area of virtual, E-learning and adopt it in their classes to make it more communicative and student friendly. Even the use of Nicenet (Web 2 tool) made it convenient for the teacher to interact with the students more often and keep a check on their assignments and motivate students to read the work of fellow mates.

Research Projects, Proposals, Research Article/Paper writing is an integral part of academicians's life. Much focus has been given to it and expert gave valuable information & tips through lectures/ppts on academic writing and agencies which funds for projects and proposals. Participants were benefitted by the invaluable informations provided by the experts.

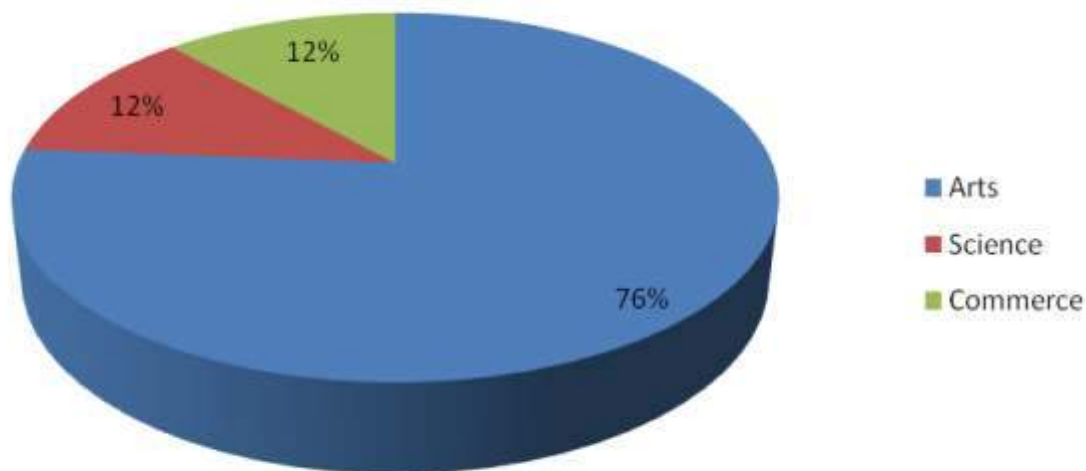
Lectures on plagiarism created awareness about literary theft. Importance of citation and originality has been exposed which broadened the horizon of participant's mind.

The newly recruited teachers also get a chance to interact and learn from the style of teaching, tactics and experiences of senior professors and academicians.

## **E LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

- i. Audio files (150) recording of lectures delivered by Resource Persons.
- ii. Video Files (60) recording of lectures delivered by Resource Persons.
- iii. PPT files (110) of the lectures delivered by Resource Persons.

## **F FACULTY WISE DISTRIBUTION OF PARTICIPANTS**







## Babasaheb Ambedkar Technological University, Lonere & Veermata Jijabai Technological Institute, Mumbai

### A PROFILE

1	Name of the Parent Institute	<b>Dr. Babasaheb Ambedkar Technological University Lonere Veermata Jijabai Technical Institute Mumbai</b>
2	Project Duration	Since : Sept 2018 To : March 2020
3	Details of PAB ( proposal approved )	11th PAB 17th July 2018
4	Actual date of initiation	27th Sept 2018
5	Detail of Director / Coordinator	
	Name	: <b>Dr. A W Kiwelekar</b> Coordinator DBATU
	Address	: Dr. Babasaheb Ambedkar University Lonere-402103
	Phone / Mob.	: 7588713195
	Personal / Office	: 9890456659
	E mail Address	: awk@dbatu.ac.in
	Name	: <b>Dr. V B Nikam</b> Coordinator VJTI
	Address	: Veermata Jijabai Technical Institute Matunga, H.R. Mahajani Marg, Mumbai-400019
	Phone / Mob.	: 9421259200
	Personal / Office	: 7666259200
	E mail Address	: vbnikam@it.vjti.ac.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018-19	FDP	12	427	144	No Such Data Collected						179	392	544	27	571
2018-19	Workshop	2	64	23							25	62	87	0	87

- overall average age of the participants : 37 years
- overall average experience of the participants : 6 years

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

The discipline of Product Design Engineering is the main training area for Faculty Development Center at DBATU-Lonere, and the Geo-Informatics, Spatial Computing and Data Analytics is the main vertical for training and capacity building for Faculty Development Centre at VJTI Mumbai.

The University and various autonomous engineering colleges in the state of Maharashtra have revised curricula and introduced courses on Product Design Engineering, Geo-informatics, Data Analytics, and other courses per-requisite for these course as per the recommendation of RUSA Maharashtra. The FDCs at DBATU and VJTI have been conducting training courses on Product Design Engineering, Geoinformatics, Artificial Intelligence, Data Analytics, and other closely related domain areas since September 2018. The main highlights of the program are:

- **Course Content Development** : The course curricula of Product Design Engineering is aligned with National Skill Council's Occupational Standard. It include standardized course content, also, lab-manuals for hands on session have been developed. The courseware developed by NASSCOM have been used to train the teachers for design skills.
- **Industry & IIT Collaborations for Faculty Training** : AutoDesk one of the companies leading in the area of Product Design Engineering at the global level is associated with us as a main training partner. Geoinformatics, and Data Analytics have been conducted with the support of Industry experts, and IIT's domain experts, and the government authorities from various related department have been involved to understand the need of the time and collaborate to strengthen capacity building in the FDC verticals.
- **Training on Pedagogical and Assessment Methods** : A two-week specialized training on pedagogical and assessment techniques for PDE has also been conducted
- **Capacity building of Engineering Teachers** : More than 550 engineering teachers have been trained so far.

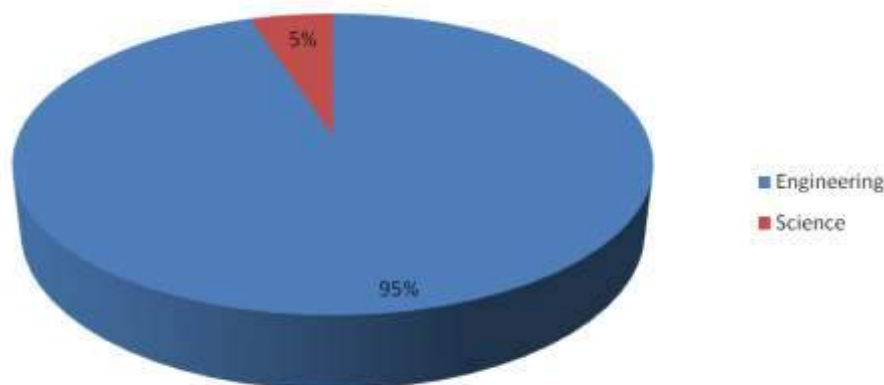
**D****THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

The participants responded in a mixed way. Some of the participants were excited to learn new design tools while rest of the participants were concerned about implementing the course in their institutes. Participants were curious about various stages from learning, experimenting, developing a product, making a case study by solving societal problem. In general they took interest from learning to implementation. However, the important takeaways of FDPs were:

1. Knowledge of how the method of experiential learning works in live classrooms.
2. Making the case studies for solving small level of societal problems by using these new technologies.
3. Awareness for the fact that design thinking is an integral skill for any engineer to survive in highly competitive world.
4. The hands-on experience for deigning product with tools such as AutoFusion.
5. Acquisition of modeling and simulation skills with AutoDesk product.
6. Learning GIS for content mapping, and using for spatial analytics to support decision makers.
7. Handling a large volume of data generated by people through their activities.
8. Learning and developing skills in Data Analytics, Artificial Intelligence for improving the employability.

**E****LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

- FDC-DBATU has purchased the copyright for the learning and teaching material developed by NASSCOM to train engineering teachers on Product Design Engineering.
- FDC-VJTI has developed the hands materials through the exercises, experiences and the case studies learned through FDP sessions.
- Course contents for the courses introduced in the curriculum in progress. The course material targeted to be developed is with the Indian societal case studies and the products to be developed to solve Indian societal problems.

**F****FACULTY WISE DISTRIBUTION OF PARTICIPANTS**





## Kurukshetra University, Haryana

### A PROFILE

1	Name of the Parent Institute	Kurukshetra University, Kurukshetra
2	Project Duration	Since : September, 2018 To : 31st MARCH, 2020
3	Details of PAB ( proposal approved )	11TH PAB MEETING HELD ON 17.07.2018
4	Actual date of initiation	October 2018

#### 5 Detail of Director / Coordinator

Name : **Prof. Neera Verma**  
Project Coordinator

Address : Department of Economics, Kurukshetra University,  
Kurukshetra 136119 - Haryana

Phone / Mob. : 9416035388

E mail Address (Personal) : nverma@kuk.ac.in

Office : fdckuk2018@gmail.com

Name : **Dr. Taruna C Dhall**  
Programme Coordinator

Address : Institute of Teacher Training and Research, Kurukshetra  
University, Kurukshetra 136119 - Haryana

Phone / Mob. : 9896247294

E mail Address (Personal) : tarunacd@gmail.com

Office : fdckuk2018@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018-19	National Workshop	01	01	06	00	00	00	07	00	00	02	05	05	02	07
	Faculty Development Programme	01	31	15	06	00	00	36	02	02	11	35	09	37	46
2019-20	Faculty Development Programme	01	01	08	00	00	00	09	00	00	03	06	04	05	09
	National Workshop	02	72	34	10	00	00	73	12	11	102	04	102	04	106

- **Overall average age of the participants**

The overall average of the participants is 42.17 years

- **Overall average experience of the participants**

- Overall average experience of the participants was indicative of their satisfaction in terms of practical application of the interactions in their own field and also a desire for more opportunities to update their knowledge and skills in areas concerning their immediate institutional environment.
- Regarding development of resource material, the experts appreciated the initiative of our FDC for developing training resource material for the purpose of drawing attention to issues related to Pedagogical process and nurturing needed skills among the faculty address the same at the institutional level.

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

Meaningful interaction of the participants (faculty) from different disciplines with the learned resource persons during the capacity building programme on 'Pedagogy : Transaction and Assessment' aimed at acquainting them with learner-centric approaches of teaching and nuances of classroom management. Opportunities were provided to understand various techniques of evaluation and assessment. Discourse on underlying tenets of curriculum construction and various initiatives of curriculum reforms at the national level aimed at generating a sense of appreciation for factoring in these aspects at the micro level.

As a capacity building tool, development of teaching resource material around two thematic areas 'Skill Enrichment for Academic Excellence' and 'Ethical Challenges in Education' has been initiated in a workshop mode. Embarking upon the linear progression of designing and developing resource, during the initiation stage of the workshop, learned members of the development team shared their understanding of the field around needs assessment of the target group, identified relevant skills along with content outline and format of developing the content. Critical analysis of the developed material during the peer review meeting led to filling in the gaps in terms of content and presentation.

Workshop on adoption of MOOCs in higher education was directed towards clearing the haze around its implementation as well as motivating the faculty members to design courses.





## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

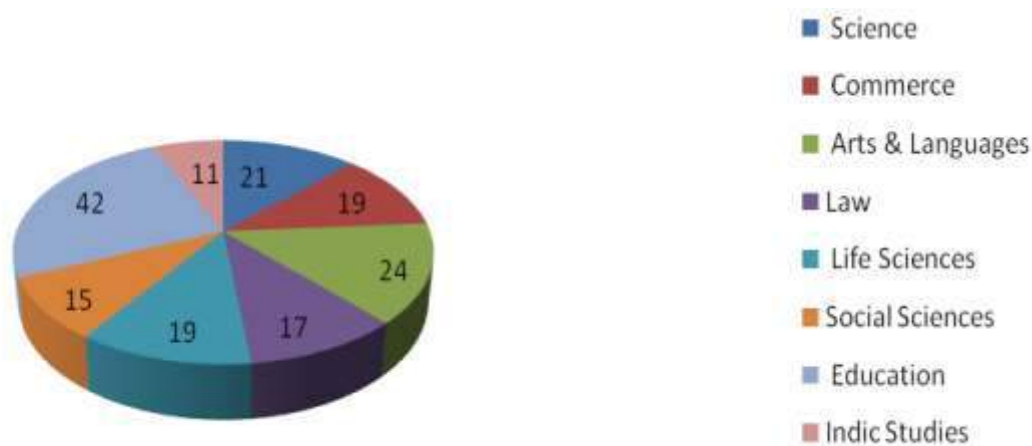
Faculty members of universities and colleges from different parts of the country participated in the programs organized by FDC, KUK. They got introduced to variety of learner centric approaches of pedagogy. Focus on inclusive class room management techniques oriented the participants to accommodate diverse needs of the learner in a holistic manner. Hands on experiences around various digital tools of evaluation and assessment enabled the participants to relate new perspective with their specific disciplines and cement their knowledge from an application point of view. Awareness about various digital initiative of the government at national level got them motivated to think about modeling their 'teaching –learning' strategies along these lines. Participants felt that interaction focused around establishing symbiotic connect between curriculum transaction and assessment from an interdisciplinary perspective in order to promote institutional effectiveness. Shared experiences, among the group, around the theme of program established an understanding that dynamic interaction among the cognitive skills, affective skill and material resources is integral to holistic academic experiences.

Informal feedback sessions revealed that faculty members, across disciplines are appreciative of the provision of in-service training/ capacity building programme and are keen to be part of it but are often held back due to administrative barriers at the institutional level.

## E LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:

Development of training Resource material on 'Skill Enrichment for Academic Excellence', with a focus on Soft Skills, Life Skills & Pedagogical Skills, is under process. Initiation stage of the workshop on Ethical Challenges in Education: Sociological & Psychological Perspective' held on May 27, 2019.

## F FACULTY WISE DISTRIBUTION OF PARTICIPANTS







## Maharshi Dayanande University, Rohtak

### A PROFILE

1	Name of the Parent Institute	M.D. University Rohtak
2	Project Duration	Since : 1st October, 2018 To : 31st March, 2020
3	Details of PAB ( proposal approved )	17th July, 2018
4	Actual date of initiation	1st October, 2018

### 5 Detail of Director / Coordinator

Name : **Prof. Surendra Kumar (Director)**  
Head Dept. of Sanskrit MDU

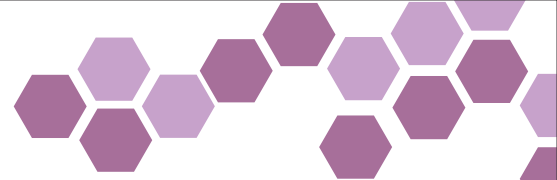
Phone / Mob. : 9215379708

E mail Address : dir.fdc@mdurohtak.ac.in

Name : **Dr. Madhuri Hooda (Project Coordinator)**  
Dept. of Education

Phone / Mob. : 8295081122 & 7404758316

E mail Address (Personal) : dir.fdc@mdurohtak.ac.in & hoodamadhuri@gmail.com  
Office :



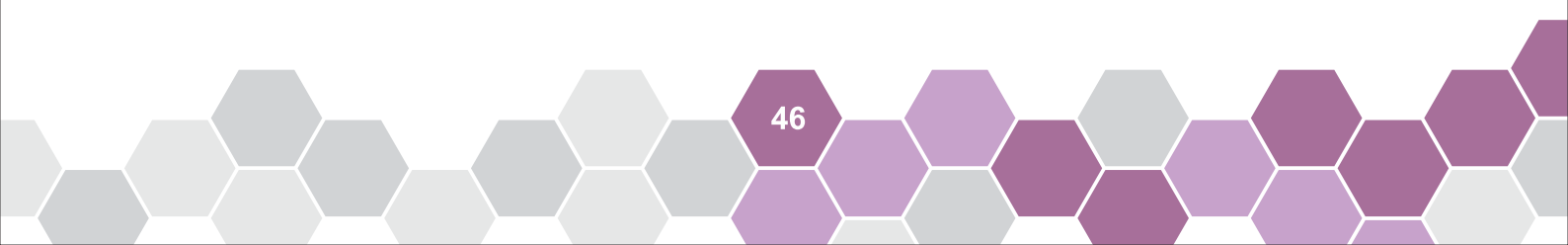
## B SUMMARY OF PROGRAMMES CONDUCTED

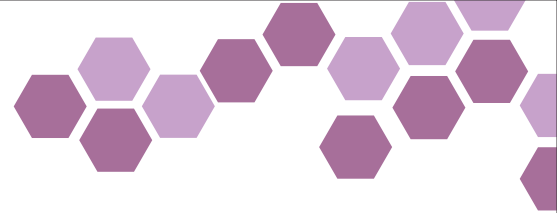
Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018-19	Faculty Induction Programme	01	22	17							14	25	34	5	39
	Faculty Development Programme	02	44	66							84	26	105	05	110
2019-20	Workshop	01	23	26							37	12	46	03	49
	Interdisciplinary Refresher Course	01	19	30							36	13	45	04	49

- **Overall average age of the participants : 35**
- **overall average experience of the participants : 6-7 years**

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

The newly established Faculty Development Centre has conducted five programmes conducted so far. The first programme was Faculty Induction Programme from Jan 7- Feb5,2019. All the core modules and elective modules except few subsections prescribed by MHRD were followed. Few of the resource persons from outside India who came to India for some other academic assignment along with local resource persons were speakers during the programme. Hands on practice sessions were integral component of the schedule of the programme. The second programme was ten days FDP on "Innovations and Research Methodology" from Feb 9-18,2019. All the sessions were followed by some hands on activities. The third programme was a seven days FDP on e-content development, e-learning technologies and MOOCs. The participants developed their own e-content.The fourth programme was Capacity Building Programme from March 11-24,2019 on 'Pedagogy, Research and Extension Activities'. This programme was also an outcome based programme and the content was developed by the participants. The fifth programme was an interdisciplinary Refresher Course on High Impact Teaching Strategies and Teaching Methodologies from May 15to June4,2019. Presentations and e-content development were the major tasks of the course. All the programmes included course feedback as well as individual feed back of the resource persons by online mode. The report of each programme was released on the valedictory function of the programme.





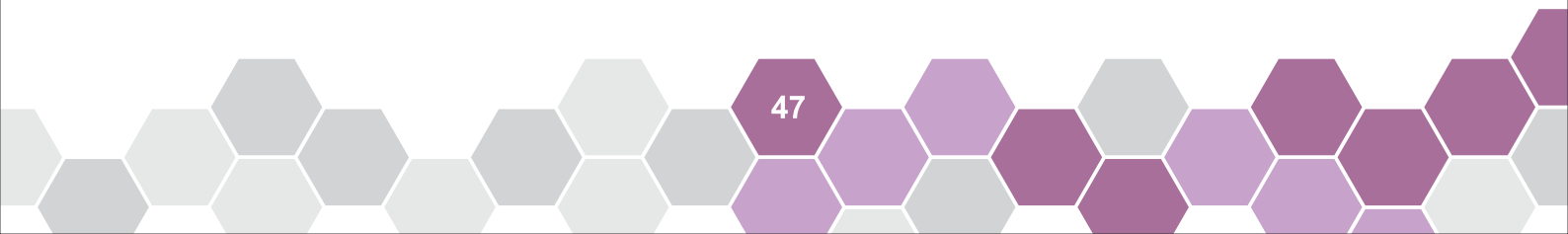
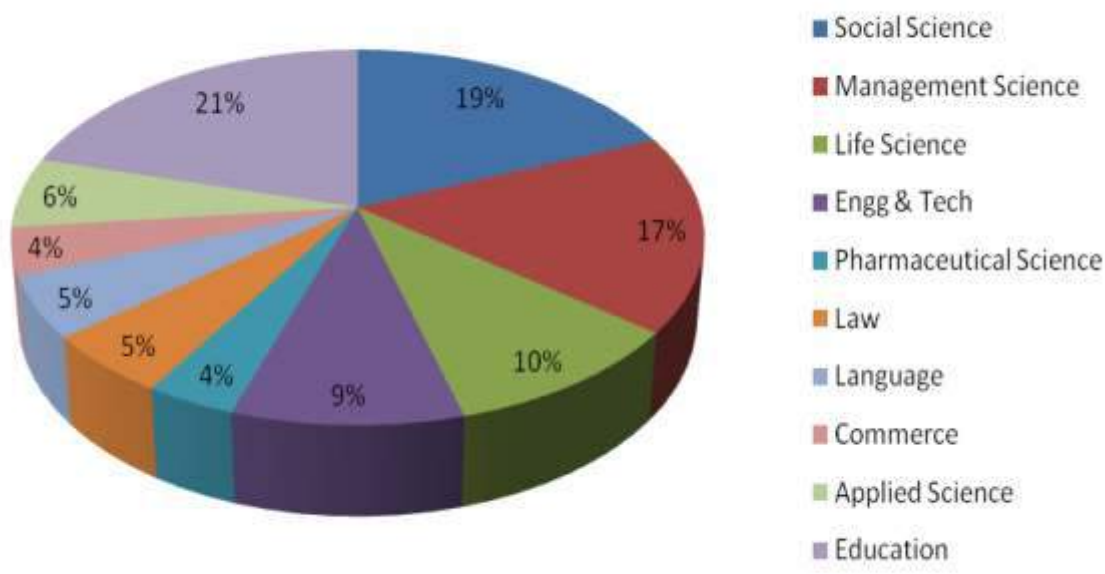
## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

The programmes conducted by the Faculty Development Centres, all the activities, lectures, hands on sessions are organized by keeping the needs of higher education system at the pivotal point. The outcomes are measured with the development of personal, organizational and professional competence of the participants. The themes of the programmes organized are wide and varied. Each programmes has handson sessions as its key component. Many tasks and assignments along with presentations are the part of the schedule. Feedback is taken from all participants by online mode which is about comprehensive feedback of the course and individual feedback of the resource persons. The analysis of the feedback about the course indicates its rating on an average of 8, generally for all the related aspects like course management, course contents, Hospitality, Resource persons, usefulness for their professional field. The individual feedback about resourcepersons also indicated 8 as an average score. The whats app group of all the participants of various programmes is active and involved in post programmes academic activities.

## E LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:

- All the participants of the 07 days Faculty Development Programme developed E-Content and created their weblite.
- All the participants of the interdisciplinary refresher course developed E-Tutorials.

## F FACULTYWISE DISTRIBUTION OF PARTICIPANTS







## Mahatma Gandhi Kashi Vidyapeeth, Varanasi

### A PROFILE

1	Name of the Parent Institute	<b>Mahatma Gandhi Kashi Vidyapith</b>
2	Project Duration	Since : July 2018 To : March 2020
3	Details of PAB ( proposal approved )	Eleventh Project Approval Board (PAB) Meeting of the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNTT) held on 17th July, 2018.
4	Actual date of initiation	1st , October 2018

#### 5 Detail of Director / Coordinator

Name : **Prof. Arvind Kumar Pandey**  
(Project Coordinator & Head, Department of Education)

Address : M.G. Kashi Vidyapith, Varanasi (U.P.) - 221002.

Phone / Mob. : 9451894651

E mail Address (Personal) : arvindkumarpandey62@gmail.com

Office :

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018-19	Faculty Development Programme	05	310	95	49	00	00	265	82	00	284	107	387	18	405
2018-19	Short Term Training Programme	01	22	08	04	00	00	20	06	00	29	01	30	00	30
2018-19	National Workshop	01	27	07	05	00	00	21	08	00	25	09	33	01	34
2018-19	National Workshop	01	27	13	05	00	00	28	07	00	28	12	37	03	40

- **Overall Average age of the participants : 33 Years**
- **Overall Average experience of the participants : 5 years**

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

Major Highlights of the programmes conducted by the FDC, Department of Education, M.G.Kashi Vidyapith, Varanasi

Since the initiation of the project, the FDC has conducted following programmes so far:

- 1) 5 National Seminars (Two 1-day seminar and Three 2-days seminars)
- 2) 2 National Workshops (14 days duration)
- 3) 1 Short-term Training programme (21 days in three phases of 7 days each)

In total 8 programmes have been conducted of 57 days duration with the total beneficiaries 509. Our emphasis has been on sensitizing and motivating the faculty members of different higher education institutions to adopt new pedagogic approaches to teaching-learning and assessment tools. Through our different faculty improvement programmes we are striving to achieve the goal of teachers' personal development as well as their instructional, organizational and professional development.

With the infrastructure developed under the non-recurring head of the FDC including 2 smart classrooms, one seminar hall, computer lab and learning resource centre, we have been successful in exposing the participants to the best practices and the recent trends in the area of ICT and also in the upgradation of their teaching skills. They have also been taught to develop comprehensive and effective project proposals and the use of MS- Excel and SPSS in data analysis. Emphasis also have been given to improve their communication skills, academic writing and the development of research tools through various faculty orientation programs.

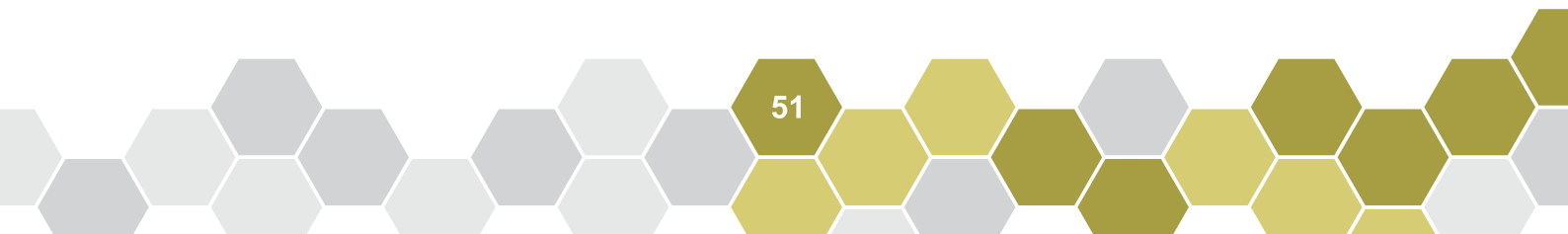


**D****THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

The various programmes conducted by us in FDC have been very useful in terms of giving exposure to the participants to the new and innovative practices in the field of teaching-learning. They have been given opportunity to express themselves through paper readings and hands on activities related to academic delivery and project writing. By working in different groups and sharing their views generating knowledge, participants could feel the real idea of 'collaborative and experiential learning'. They were allowed to give their feedback on different programmes and that helped them to conceptualize, analyze and express their views clearly and the critical appraisal. Participants have expressed their joy in terms of getting the rare opportunity to learn from different experts, as resource persons, who are well known in the academic fraternity and the experts in their respective fields. Different sessions have been very enriching in terms of innovative teaching practices and pedagogy for the participants coming from various institutions of higher education. They have been taught effective methods of transacting and disseminating knowledge and a constructive approach towards learning. The question-answer sessions after the programmes helped the participants to gain insight about the theme of different programmes and aroused their curiosity and thirst for knowledge. Participants have been exposed to different areas of study that are relevant in present context like Inclusive education, Right to Education, Indigenous sources of teaching-learning, Nationalism, Various aspects of Indian philosophy, Learning and importance of language, Personality development, Emotional intelligence, etc.

**E****LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

One book will be published soon on the topic 'Indigenous Sources of Teaching and Learning' based on the theme of one of the workshops organized by FDC.







## Mizoram University, Mizoram

### A PROFILE

1	Name of the Parent Institute	Mizoram University
2	Project Duration	Since : August 2018 To : March 2020
3	Details of PAB ( proposal approved )	11th PAB 1st August 2018
4	Actual date of initiation	1 <sup>st</sup> September 2018
5	Detail of Director / Coordinator	

Name : **Prof. Lokanath Mishra**  
Honorary Director

Address : Faculty Development Centre, Department of Education,  
Mizoram University, Tanhril, Aizawl 796004

Phone / Mob. : 9457115093

E mail Address (Personal) : mishra.lokanath70@gmail.com

Office : fdc@mzu.edu.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Faculty Development Programme	02	45	35	00	78	00	00	00	02	80	00	80	00	80
2018	National Workshop	02	49	31	00	79	00	00	00	01	80	00	80	00	80
2019	Faculty Induction Programme	02	40	40	01	67	00	00	00	00	80	00	80	00	80
2019	Faculty Development Programme	02	51	29	02	76	00	00	00	02	20	60	80	00	80

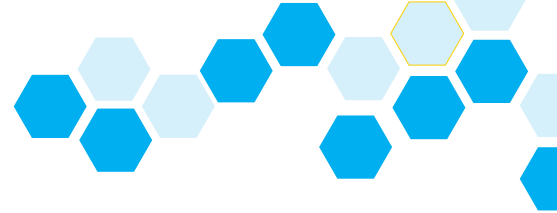
- overall average age of the participants : 29
- overall average experience of the participants : 2.5

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

Faculty Development Centre, Mizoram University covered all the 8 districts of Mizoram to train the teachers in different aspects of education with the collaboration of State Government. Faculty Development Centre, Mizoram University has conducted 8 programmes on different aspects of teaching for school teachers and teacher educators. Lesson plans on constructivist approach on various subjects have been developed and implemented in the schools of Mizoram. Teachers have been oriented about the new scheme of examination of Mizoram Board of Secondary Education, and also trained for developing question papers for secondary and higher secondary Board Exams.

## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

Based on their feedback, the participants comprising of secondary school teachers and teacher educators felt that they received needful training from the Faculty Development Center. As per the feedback, most of the participants felt that the Resource Persons were rightly chosen for each program. Their expertise, skill and experience in different fields were valuable and usable for them.

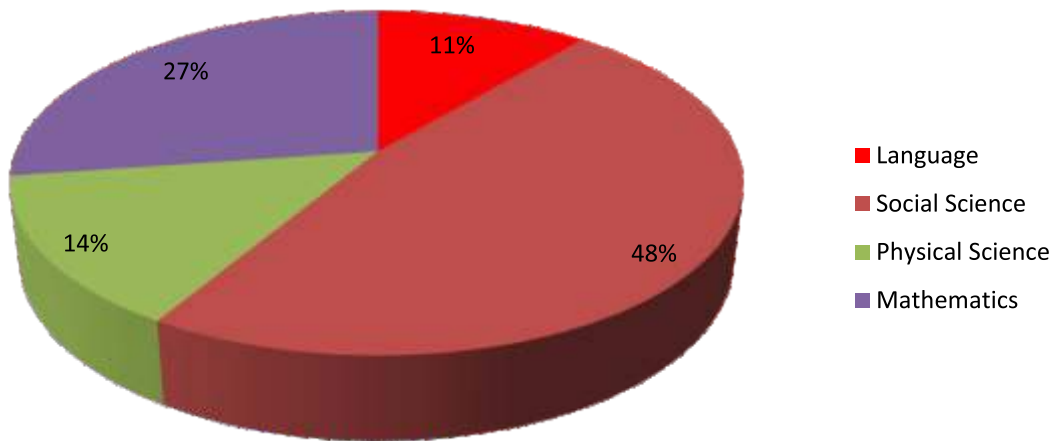


## E LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:

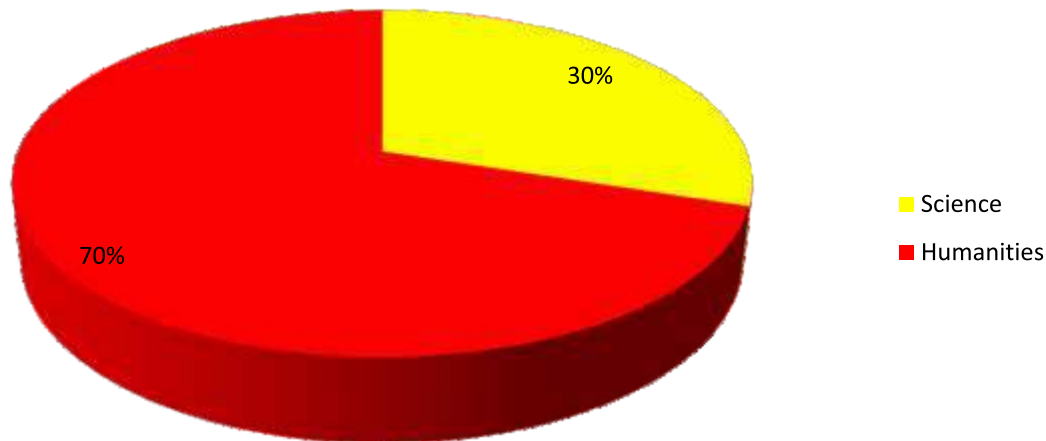
- 1) Lesson plans on different subjects like Mathematics, Science, Social Science and English based on constructivist approach.
- 2) Teaching-learning materials were developed in different subjects.

## F FACULTYWISE DISTRIBUTION OF PARTICIPANTS

- Facultywise Distribution of Secondary School Teachers & Teacher Educators:



- Facultywise Distribution of Assistant Professors







## National Council of Rural Institutes, Hyderabad

### A PROFILE

1	Name of the Parent Institute	<b>Mahatma Gandhi National Council of Rural Education</b>
2	Project Duration	Since : Nov 2018 To : Jan 2019
3	Details of PAB ( proposal approved )	17.07.2018
4	Actual date of initiation	25.09.2018
5	Detail of Director / Coordinator	

Name : **Dr W G Prasanna Kumar**

Address : # 5-10-174, Shakkar Bhavan, Fateh Maidan Lane,  
Band Colony, Basheer Bagh- 500004.

Phone / Mob. : +91 9849908831

E mail Address (Personal) : wgpkncri@gmail.com

Office : fdc@mzu.edu.in

Where there is Rural Wellbeing  
there is Universal Prosperity

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total	
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State		
2018-19	Faculty Development Programme	40	00	00	00	00	00	00	00	00	00	00	1231	00	00	1231
2018-19	Master Trainer Development Programme	21	00	00	00	00	00	00	00	00	00	00	653	00	00	653
2018-19	Curriculum Development Workshops (one or two days)	59	00	00	00	00	00	00	00	00	00	00	1782	00	00	1782
2018-19	Roundtables	60	00	00	00	00	00	00	00	00	00	00	00	319	00	319

- **Research Project : 20**
- **Minor Research Project : 90**
- **overall average age of the participants : 35 years**
- **overall average experience of the participants : 5 years**

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

40 Faculty Development Programmes on 'Nai Talim' and Community Engagement, 21 Master Trainers Development Programmes, 59 Curriculum Development workshops (one or two days), 60 Roundtables were organized across the country. Apart from this, 20 'Nai Talim' Action Research Projects, 90 Minor Research Projects were undertaken. 3 batches of Faculty induction programmes were also conducted.

## D THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

At the end of **the Faculty Development Programmes and Master Trainers Development Programmes**, the participants were able to:

- Understand the vision and philosophy of the Experiential Learning – Gandhiji's 'Nai Talim' Curriculum
- Experience the skills and knowledge gained and impact on three H's through participating in experiential learning activities
- Understand Gandhiji's aims of education and philosophy behind 'Nai Talim'
- Explore which states are already implementing 'Nai Talim'
- Discuss the 'Nai Talim'/ Experiential Learning success stories in their state
- Discuss and present key connections between NCF 2005, RTE 2009, NCFTE 2010 and 'Nai Talim'





- Identify aspects relevant to the context of the school student and B Ed Student-Teacher from various backgrounds and occupations
- Devise contextually suitable engagement activities for the student teacher
- Identify aspects relevant to local community engagement in teacher education
- Identify the process of connecting the text with the child/learner with the local context
- Devise and present contextually suitable engagement activities for the middle and high school students
- Identify the school education programs and policies which have local community engagement aspects
- Participate effectively in local community service
- Explore models of art, craft for entrepreneurship and for self-reliance
- Practice global citizenship by welcoming people of diverse backgrounds
- Reflect critically, modify perspectives on how experiential learning/work education will help make students lifelong learners
- Conclude that work education/experiential learning should be a core and an integral part of the curriculum transaction
- Transact experiential learning activities with School students, B Ed College students with the aim of bringing positive changes in themselves, their institutions and their communities
- Share transformed perspectives of how experiential learning will ensure that the text matches with the context and learning is relevant to the student; that it will make them lifelong learners
- Analyse and share learning from the program that can be applied in the school education and B Ed Curriculum
- Take part in various rural immersion activities/methodologies to understand the rural community strengths and weakness
- Share ideas on community engagement by student teachers at B Ed Colleges and school students

**At the end of the curriculum development workshops, participants were able to:**

- Become aware of the vision and mission of MGNCRE
- Understand and appreciate the importance of formalizing rural community
- Inculcated/experiential learning in their curriculum
- Study the draft curriculum and finalize it – theory, practical and field work and credits for the same
- Submit it to BoS and work with them to formalize it as a paper
- Plan the Faculty Development Program dates and participants

**At the end of the faculty induction programmes, the participants were able to:**

- Explain academic and non-academic roles of an Assistant Professor in an institute/university.
- Provide effective method of transacting/disseminating knowledge to the learners.
- Impart professional training enhancing essential competencies, skills and attitudes to face the daily



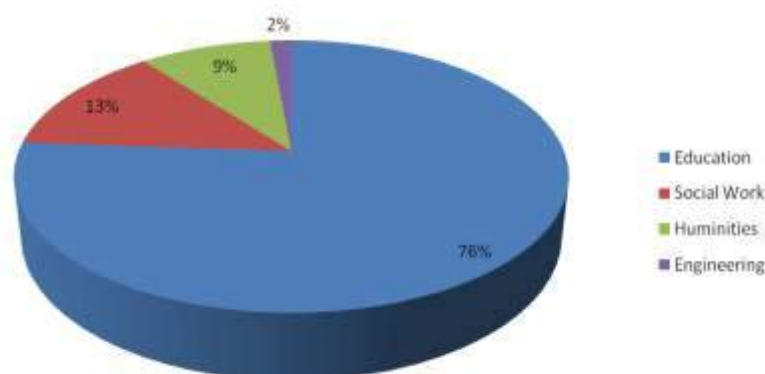
academic challenges.

- Conceptualize the structure and functioning of the University System
- Contribute to the growth and development of their respective University
- Conceptualize the nuances of curriculum design and designing curriculum and its components
- Contribute to the growth and development of curriculum in their respective University
- Enhance their expertise in utilization of various online tools in context of research and content development
- Understand different methods and techniques related to teaching
- Expertise and enhance skills of teaching in different set-up

## **E LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

- As part of activities of the Faculty Development Centre activities, MGNCRE successfully conducted 3 Induction Programmes. Resource material in the form of 12 modules were developed with expert inputs. The modules are listed below:
- Roles and responsibilities of a Faculty / Academics in Higher Education
- University Structure and Functioning
- Curriculum Design and Content Development
- Pedagogic Techniques & Teaching and Learning Methods
- Assessment and Evaluation
- Research in Higher Education
- Personal-Emotional Development and Counselling
- ICT: effective use of technology for teaching, learning and evaluation
- E-Content Development & MOOCs
- University Governance and administration
- Academic Leadership
- Strategic Planning and Management

## **F FACULTY WISE DISTRIBUTION OF PARTICIPANTS**



““ If you admit internal purity  
of the human soul,  
you or your religion  
can never get impure or  
defiled in any way by touch  
or association with any man ””

*-Madan Mohan Malaviya*







## Punjabi University, Patiala

### A PROFILE

1	Name of the Parent Institute	<b>Punjabi University, Patiala</b>
2	Project Duration	Since : September 2018 To : March 2020
3	Details of PAB ( proposal approved )	Eleventh Project Approval Board (PAB) Meeting of the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) held on 17th July, 2018.
4	Actual date of initiation	October 2018
5	Detail of Director / Coordinator	
	Name	: <b>Prof. Jasraj Kaur</b> (Head, Department of Education & C.S.)
	Address	: Punjabi University, Patiala. 147002
	Phone / Mob.	: 9855465521
	E mail Address (Personal)	: gilljk@ymail.com
	Office	: headeducationpup@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Faculty Induction Programme	01	13	25	12	00	00	23	03	03	12	26	32	06	38
2018	Seminar	01	8	22	18	00	00	12	00	00	12	18	30	00	30
2018	Faculty Development Programme	01	14	26	09	00	00	26	05	05	17	23	40	00	40
2019	Faculty Development Programme	5	58	54	54	00	00	90	19	59	59	104	147	16	163
2019	Seminar	4	57	103	58	00	00	81	21	21	46	114	147	13	160

- overall average age of the participants : 31
- overall average experience of the participants : 5.6 years

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

The Faculty Development Centre, Punjabi University, Patiala has organized one faculty induction programme, five seminars, five awareness programmes and one training programme. The total number of beneficiaries in all these programmes till May 2019 is 431. The number of resource persons who were part of these programmes is 63. The areas covered in these programmes are Research Methodology, Teaching Skills, Special Education, Innovations in Teaching, Inclusive Education, Life Skills, Psychological Testing, Statistical Testing, Teaching Strategies, Academic Writing, Health and Hygiene, Emerging Technologies, Academic Leadership, ICT, Personal-Emotional Development, Assessment And Evaluation, Pedagogic Techniques And Teaching Learning Methods, University Structure and Functioning and Policy Analysis. Social inclusion and integration of ICT tools was a major focus in all the programmes.



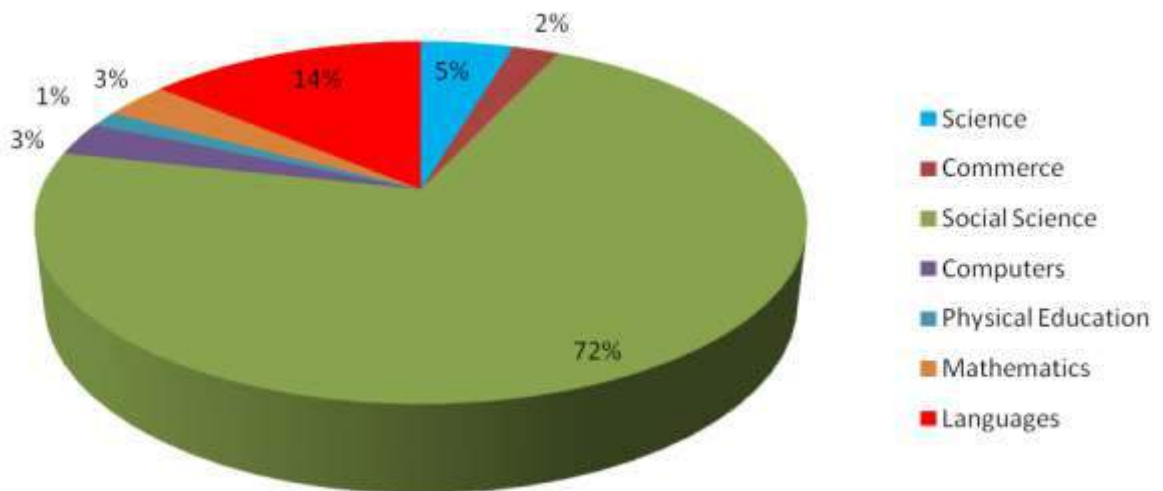
**D**

## THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

A participant taking part in these programme takes away knowledge of various fields. He/ she gets a chance to interact with experts of various fields and learn new things as well. They get a chance to interact with people with all levels of knowledge for a particular topic, which makes it even better venture for them. The participants found themselves more confident after gaining knowledge about respective themes of the programmes conducted by the centre from time to time. The participants appreciated the efforts of the resource persons to make the sessions interactive. They felt better equipped after hands-on practice, which was conducted wherever possible. Also, participants felt the content of the programmes appropriate for their professional and personal development. Participants also liked the carefully planned modules of the induction programme which can give them a head start in their career.

**E**

## FACULTY WISE DISTRIBUTION OF PARTICIPANTS









## Savitribai Phule Pune University, Pune

### A PROFILE

1	Name of the Parent Institute	<b>Savitribai Phule Pune University</b>
2	Project Duration	Since : Dec. 2017 to March 2020
3	Details of PAB ( proposal approved )	Fourth Project Approval Board (PAB) Meeting of the Pandit Madan Malaviya National Mission on Teachers and Teaching (PMMMNTT) held on 20th December, 2017.
4	Actual date of initiation	January 2018

### 5 Detail of Director / Coordinator

Name : **Prof.(Dr.) Sanjeev Sonawane**  
Director

Phone / Mob. : 9890178190

E mail Address (Personal) : sonsanjeev63@gmail.com

Name : **Dr. Sachin S. Surve**  
Coordinator

Address : Faculty Development Centre, UGC-HRDC, Savitribai Phule  
Pune University, Pune 411007 (Maharashtra)

Phone / Mob. : Ph.: 91-020-25692022  
M.: 9850628944

E mail Address (Personal) : survesachin7@gmail.com

Office : fdchrdcsppu@gmail.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
March 2018 - March19	Faculty Development Programme	32	588	401	151	28	72	532	206	00	464	525	942	47	989
March 2018- March19	Workshops*	04	68	45	07	01	03	66	09	00	30	83	113	00	113
March 2018- March19	Refresher Courses	04	216	49	60	10	20	129	46	00	67	198	263	02	265

\*Category wise details for one workshop are not available

\*RM- Research Methodology

- overall average age of the participants : 43 years
- overall average experience of the participants : 12 years

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

The Faculty Development Centre, UGC-Human Resource Development Centre, Savitribai Phule Pune University initiated its activities in the month of March 2018. For the first 3 months, we analyzed the training needs for teachers and then designed need based programmes to cater to specific requirements of the faculty members for their personal and professional development, as specified in the objectives of the component Faculty Development Centre and PMMMMNMTT. The Faculty Development Centre has covered wide range of areas ranging from NAAC, Research Methodology, Innovative teaching skills, Soft skills to Human Rights and Community Engagement. The major highlights of all these programmes were:

- Needbased and well designed contents for each programme
- Interactive participation
- Use of technology and other innovative teaching aids
- Balance between personal and professional development resulting into energized and willful participation.
- Experts from different areas having actual and on field knowledge & experience
- Healthy, Happy and supportive learning environment.



**D**

**THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

The Faculty Development Centre, UGC-Human Resource Development Centre, Savitribai Phule Pune University covered programmes focusing on different areas. This resulted in variety of outcomes/takeaways for the participating teachers. Few of the important takeaways mentioned by the participants in their feed back are listed. The participants were able to:

- Understand basics about networking, network & cyber security, does & don't
- Understand basic mentoring skills and role of a teacher as a counsellor
- Improve classroom teaching and interaction using microteaching skills and understanding learners' mindset
- Effective use of communication and media technology in teaching learning
- To develop their own audio visual media
- Be a better teacher by improving upon Soft Skills
- Understand the basics of Quantum Computing
- Understand the application of Mathematics for Nano Technology
- Understand and improve emotional intelligence, self motivation and appreciation skills
- Use and develop e-contents online material for portals such as MOOC, SWAYAM, MOODLE, etc.
- Understand role of IQAC coordinator, their responsibilities, procedures and processes for NAAC.

**E**

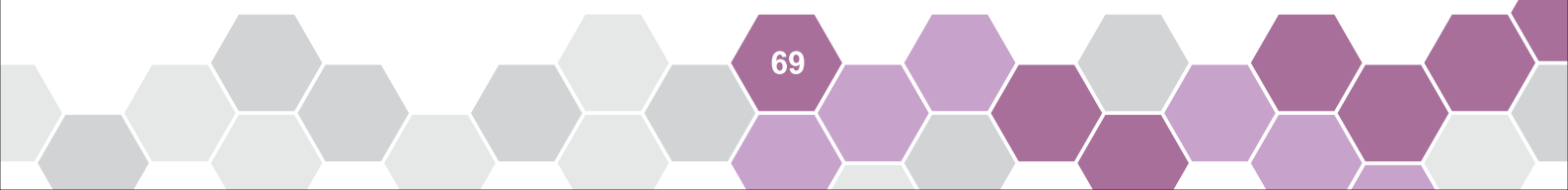
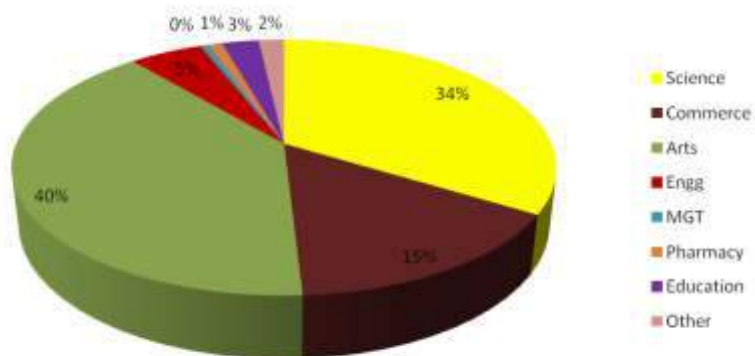
**LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

The Faculty Development Centre, UGC-Human Resource Development Centre, Savitribai Phule Pune University has developed contents for following programmes involving experts from specific academics and industries.

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• IQAC</li> <li>• Mentoring and Counselling Skills</li> <li>• Research Methodology Faculty wise</li> <li>• Microteaching</li> <li>• Train the Trainers</li> <li>• Curriculum Development and Application</li> <li>• Education in Universal Human Values</li> </ul> | <ul style="list-style-type: none"> <li>• Soft skills for Teachers</li> <li>• Network Security</li> <li>• Human Rights</li> <li>• Mediating Education</li> <li>• Community Engagement</li> <li>• Leadership for Change</li> <li>• Mathematics for Biological Sciences</li> </ul> |
|---|---|

**F**

**FACULTYWISE DISTRIBUTION OF PARTICIPANTS**



# Faculty Development Programme in Cyber Security

Digital technology has become ubiquitous. Today, one cannot do without digital technology as it has permeated into every facet of everyday life. Along with benefits, technology has brought in threats and this leaves one with no option but to equip oneself thoroughly with knowledge of cyber security. The Faculty Development Programme in Cyber Security helps the participant to understand the fundamentals of safe-keeping one's data, network and information. The participant learns about different security threats faced by individuals, organizations and Governments and what countermeasures to adopt.

Digital technology is highly dynamic. New technology is unveiled every day. Keeping oneself updated at periodic intervals is therefore necessary. Countermeasures too can change over time to cope with newer threats. Participants are advised to keep themselves up to date by taking up refresher courses at intervals.

As the Licensed Training Provider for IT&S of Sector Skill Council under the Ministry of Skill Development and Entrepreneurship through implementing body Nasscom, Skills Factory Learning is proud to associate with the Principal Investigator, PMMMNMTT, at Shivaji University, Kolhapur (Maharashtra) in the Faculty Development Programme in Cyber Security and Data Sciences



For more details, kindly contact:

**Professor R.K. Shinde**  
Principal Investigator, PMMMNMTT  
Faculty Development Centre in  
Cyber Security & Data Sciences

Shivaji University, Kolhapur 416004  
Tel.: 0231-2609000, 9028001068  
Email: rkk\_eln@unishivaji.ac.in

## Skills Factory Learning Pvt. Ltd.

103, Venkateshwara House, Opp.

Erandawane, Pune

Tel.: (020) 25451488

Email: hello@skills-factory.com

www.skills-factory.com

[/official.skills.factory](#)

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## Shivaji University

Kolhapur 416004 (Maharashtra)

Tel.: 0231-2609000

www.unishivaji.ac.in





## Shivaji University, Kolhapur

### A PROFILE

1	Name of the Parent Institute	Shivaji University, Kolhapur
2	Project Duration	Since : 2018-19 To : 2020- 21
3	Details of PAB ( proposal approved )	11th PAB held on July 17th , 2018
4	Actual date of initiation	1 November 2018

#### 5 Detail of Director / Coordinator

Name	: Professor (Dr.) Rajanish.K. Kamat (Professor)
Address	: PMMMNMTT FDC in Cyber security & Data Science, Shivaji University, Kolhapur –416 004
Phone / Mob.	: 9028001068
E mail Address (Personal)	: raj_kamat@yahoo.com
Office	: rkk_eln@unishivaji.ac.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018 - 19	FDP in Cyber Security and Data Science	38	1112	943	20%	1%	5%	54%	18%	2%	71%	29%	77%	23%	2055

- **overall average age of the participants** : **Around 35 Years**
- **overall average experience of the participants** : **Average experience around 7 Years**

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

Cyber security and Data Science disciplines are need of the time, as estimated by NASSCOM's Cyber security Task Force, there is need of 1 million trained cyber security professionals in India by 2025. But currently there are only 62,000. The main aim of our FDC is to fill this gap by employing the 'Train the Trainers' approach.

**The major highlights of the training programs are:**

- Cyber Security and Data Sciences courses at all levels for all streams (Arts, Science, Commerce, Engineering, etc.)
- FDCs to be completed - 38
- Teachers trained - 2055
- State of art laboratory to ensure experiential teaching-learning for all stakeholders.
- Study material that forays into the all-encompassing digital security for a 360<sup>0</sup> view. The same goes beyond disseminating knowledge and delves into the how's and why's of the security landscape and the logic that goes into the creation of this landscape. What sets the resources apart is the ease with which it facilitates the faculty to transfer the knowledge to the ultimate recipient – the student.
- Training of lakhs of students in different digital security related courses in one academic year capability ready.
- **All our initiatives are leading to:**
  - ✓ Becoming a brand – enhancing the employability of the students
  - ✓ Developing into a Centre of Excellence for Cyber Security and Data Sciences
  - ✓ Attracting more research students (even from abroad)
  - ✓ Becoming a hub for industry oriented application research
- **Opportunities exist for students:**
  - ✓ Cyber Experts needed globally by end 2019 – 60 lakhs
  - ✓ Cyber Experts needed in India by 2025 – 10 lakhs
  - ✓ Better employment opportunity for Cyber Security trained students
  - ✓ Cyber smart employee – Need of the hour

We are proud to host PMMMNMTT FDC in Cyber security & Data Science as besides it being an educational and skill-building project, it has national repercussions of safety and security.



**D**

**THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

The level of training understands the sensibilities of the participants who are mainly faculty members of different streams. The training also takes into account the “Recognition of Prior Learning” that these participants enjoy by way of their qualifications and teaching experience. The initiation of training for Cyber security & Data Science was through a conceptual explanation, followed by a case study and a practical demonstration by the Master Trainer, explaining step by step the process of conducting the practical. The participants then try out the practical hands on. During the hands-on, the trainer guides the participant in case of any difficulty. Post the practical, the trainer leads a discussion on how the demonstration impacts the cyber security / Data Science scenario. The participants are also explained the applicability of the concept – from a stand-alone perspective and from the business perspective. The latter is crucial as the students who would be taught by the participants will ultimately be exposed to the business environment in their careers. An important factor that the Master Trainers have included is elaboration of the consequences of making a mistake in conducting the practical. This exercise makes the participant aware of the associated risks and their severity. Working backwards, the participants learn how not to make mistakes while conducting practical's. At the conclusion, participants are drilled the fact that tools are unimportant as they get outdated. Concepts are important and they need to be understood in all their nuances. Cyber Security is essentially security in the cyber world. The Master Trainers attempt that once security is understood in its pure essence, cyber is another element amongst the various aspects prevalent in the digital universe.

**E**

**LIST OF/DETAILS OF RESOURCE MATERIAL GENERATED:**

Books/e-books:

1. Cyber Security : Hands-on Approach
2. Basics of Python Programming
3. 101 Startups in AI
4. Revitalizing Learner’s Teaching-Learning Engagement in ICT Paradigm: Contemplations & Experimentations

Reserach Papers : 10 Research papers on Data Science in Scholarly Journals

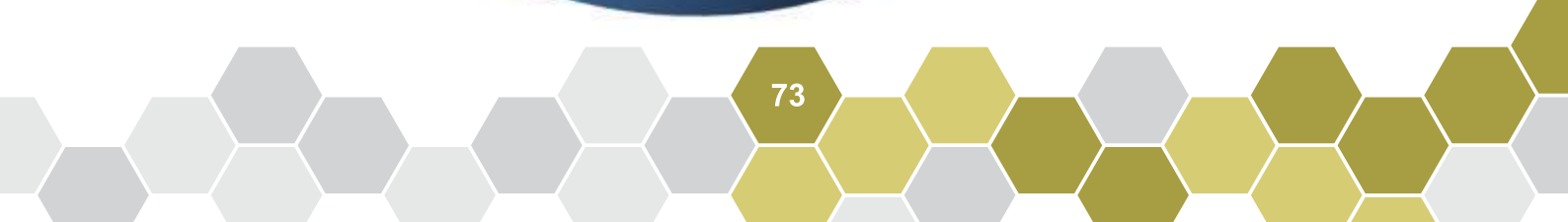
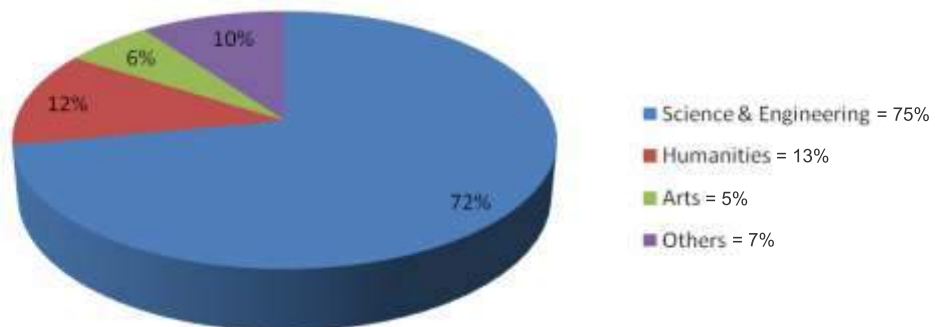
Videos : 10 Videos of Participants

Ph.D. Thesis : Four Ph.D. Students

DVD : A special DVD on experiments in Cyber Security.

**F**

**FACULTYWISE DISTRIBUTION OF PARTICIPANTS**









Shri Mata Vaishno Devi University, Jammu

**A PROFILE**

<b>1</b>	Name of the Parent Institute	<b>Shri Mata Viashno Devi University (SMVDU)</b>
<b>2</b>	Project Duration	Since : 25-09-2018 To : 31-03-2020
<b>3</b>	Details of PAB ( proposal approved )	11th PAB meting, 17 July, 2018
<b>4</b>	Actual date of initiation	25th Sep, 2018
<b>5</b>	Detail of Director / Coordinator	

Name : **Prof. D. Mukhopadhyay**

Address : Kakryal, Katra, 182320

Phone / Mob. : 9419999202

E mail Address (Personal) : mukhopadhyay.dinabandhu@gmail.com

Office : dinabandhu\_mukherjee@smvdu.ac.in

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018	Workshop	01	30	40	3	3	-	60	1	3	5	65	65	5	70
2019	Induction Programme	01	17	02	-	-	-	15	02	-	11	08	18	01	19
2019	Winter school	01	1	11	-	-	-	9	3	-	3	9	9	3	12
2019	Workshop	02	31	2	0	2	-	-	3	-	23	10	25	8	33
			29	9	-	-	-	37	-	-	10	27	10	27	37
2019	Four Weeks Orientation Programme	01	11	02	-	-	-	12	01	-	7	6	7	6	13
2019	Faculty Development Programme	03	70	15	06	06	-	64	06	02	33	51	33	51	84

- overall average age of the participants : 30-40 years
- overall average experience of the participants : Good

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

The main objective of programmes conducted by the Faculty Development Centre was to provide training for newly inducted and in-service teachers of various disciplines so as to inculcate the motivation to promote institutional effectiveness through the development of personal, institutional and professional growth resulting in growth of improved and better learning outcomes for students and teachers.

In the present scenario where information technology has become an indispensable part of every dimension of our life, the need is felt to integrate it with the process of education as well. The idea is to make learning more learner/student oriented and replace the traditional mode of one-sided, monotonous lecture mode with more dynamic and interesting mode with the help of existing information technology and also programmes intends to train the teachers through the method of dialogue about core issues related to any human being, such as his/her relationship with himself/herself, the family, society and the nature at large.

The program on communication skill help for setting the stage for successful communications, one on one and with groups, identify and develop methods to break down those barriers and identify communication outcome and plan the best approach for achieving positive results.

Orientation Programme for training Faculty & Academic Staff orient teaching process with necessary knowledge and skills to undertake quality teaching and research in their respective discipline.

**D****THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED**

1. Understand the relevance of human values and peaceful co-existence, widen their perspectives in moral decision making, gain holistic understanding of the interrelatedness of individual, family, society and nature Develop right understanding with respect to the basic aspirations of human life and Enhance clarity, assurance & purposefulness of life
2. It makes participants familiar with latest available methods, tools and techniques of Mathematical Sciences for solving the problems in engineering and sciences.
3. It sensitizes teachers about the increasing role of information and communication technology in education and to provide requisite training so as to enable them to integrate technology with their traditional mode of teaching.
4. To achieve well defined goals for more effective communications, ability to create an open environment for communication, skill to communicate clearly, stronger relationships through powerful communication & emotional Intelligence to deal with difficult situations
5. It enabled researchers, irrespective of their discipline, in developing appropriate methodology for their research studies







Sydenham College of Commerce and Economics, Mumbai

**A PROFILE**

1	Name of the Parent Institute	Sydenham College of Commerce and Economics, Mumbai
2	Project Duration	Since : 2018-19 To : 2019-2020
3	Details of PAB ( proposal approved )	Eleventh Project Approval Board (PAB) Meeting of the Pandit Madan Malaviya National Mission on Teachers and Teaching (PMMMNTT) held on 17th July, 2018
4	Actual date of initiation	October, 2018

**5 Detail of Director / Coordinator**

Name	:	<b>Dr. Sangita V. Pakade</b> Chairperson, PMMNMTT, Sydenham FDC
Address	:	Sydenham College of Commerce & Economics, Churchgate, Mumbai - 400020
Phone / Mob.	:	9422915865
E mail Address (Personal)	:	svpakade@rediffmail.com
Office	:	sydprincipal@yahoo.co.in
Name	:	<b>Dr. Khushpat S. Jain</b> Project Co-ordinator, PMMNMTT, Sydenham FDC
Address	:	Sydenham College of Commerce & Economics, Churchgate, Mumbai - 400020
Phone / Mob.	:	9869422 915/865
E mail Address (Personal)	:	ksjain2002@yahoo.com

## B SUMMARY OF PROGRAMMES CONDUCTED

Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2018 - 2019	Faculty Induction Programme	02	53	27	15	02	06	42	11	04	32	48	74	6	80
2018 - 2019	Faculty Development Programme	08	170	90	48	05	16	148	38	05	101	159	232	28	260

- **overall average age of the participants** : 40
- **overall average experience of the participants** :

The Centre has developed online feedback system which can be accessed by the approved participants through unique log-in ID and password. All sessions and the resource persons are evaluated on daily basis. An overall feedback about the Induction Programme, Faculty Development Programme, Approach of Coordinator, Quality of Programme, Learning Outcomes, etc. is taken at the end of the training to bring about necessary improvements in the training modules. The feedback from the teachers participants is 'Excellent' and their suggestions have been noted down to bring about further improvement in the quality of training courses..

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

- **Unique Features of Programme:**
  - Geographically, the Programmes have been spread over different parts of Maharashtra, viz., Mumbai, Thane, Kolhapur and Amravati districts, as also Gujarat and Goa to give maximum benefit to teachers community.
  - All Faculty Induction Programmes have been conducted for a duration of 1 month (4 weeks) and Faculty Development Programmes have been conducted for a period of 10 days as per the University Grants Commission Guidelines.
  - Faculty Development Programmes have been conducted even on Sunday and Holidays to prevent the loss of teaching days.
  - Teachers from the states of Maharashtra, Gujarat, Goa, Karnataka, Uttar Pradesh, Tamil Nadu and Delhi have been benefitted from the programmes.



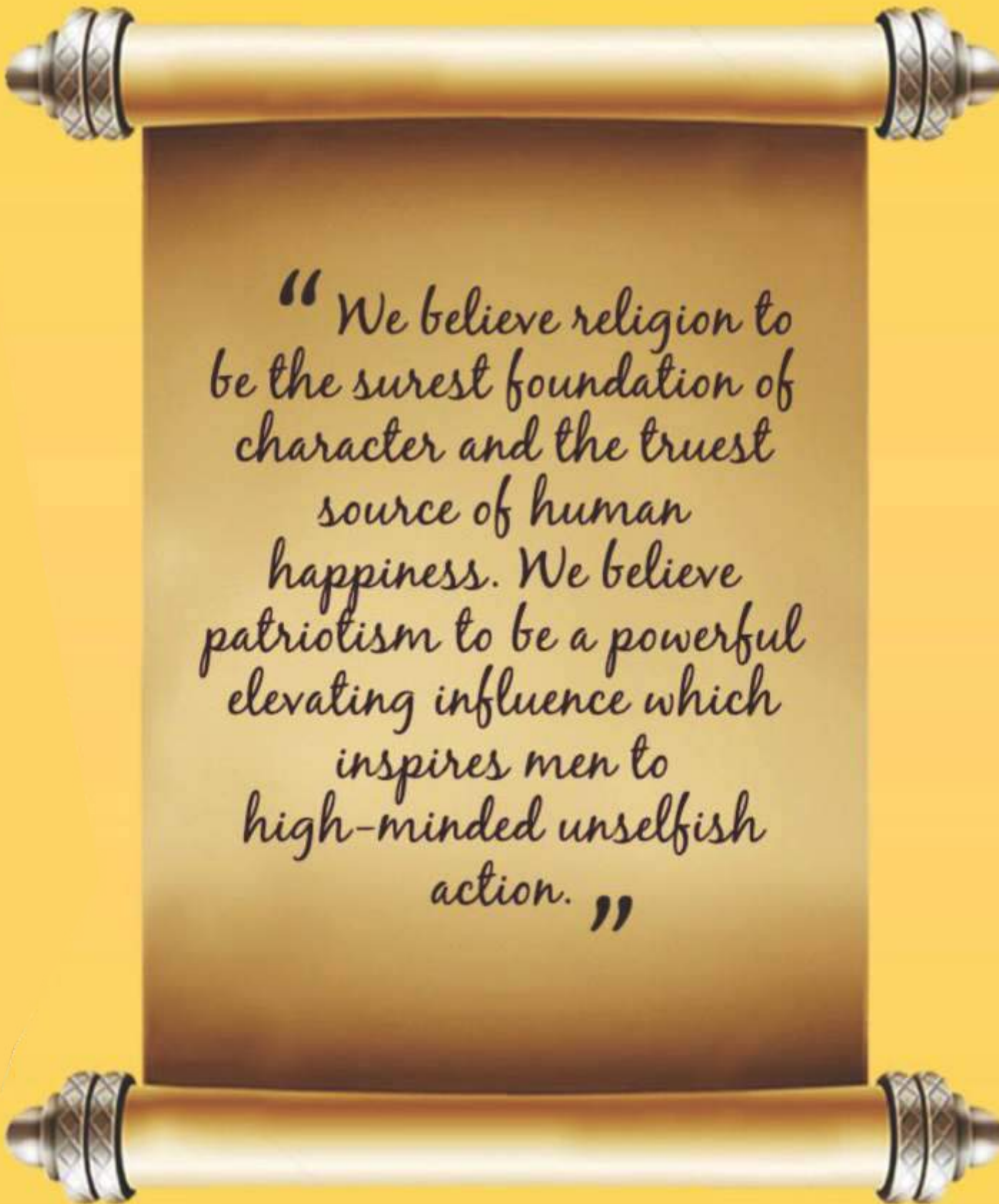
## THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED



- The Faculty Induction Programmes organized under the PMMMNMTT scheme of MHRD are of great help to teachers in upgrading their teaching-learning skills and also their knowledge of administration and governance.
- The Faculty Development Programmes on BFSI Sector organised under the PMMMNMTT scheme of MHRD are of great help to teachers in exposing them to upcoming opportunities in BFSI sector for them as well as for students and has created a need to integrate courses on capital markets, financial planning and insurance sector in the formal curriculum. A Committee consisting members from academics and industry was constituted under SPD, RUSA, Maharashtra to prepare a draft of syllabus for courses on BFSI sector. The Committee hold several rounds of discussion and came up with model curriculum on Capital Market, Financial Planning and Counselling and Insurance Sector. The Model Curriculum was presented by the Hon. Vice-chancellor, University of Mumbai, to the Vice-chancellor's of various universities across the state in a meeting held at Mumbai University on 3rd December, 2018 and called upon them to incorporate Model Syllabus in their formal curriculum. The efforts of the Sydenham Faculty Development Centre under SPD RUSA bore fruits when the Hon. Vice-chancellors of University of Mumbai, Pune University and Solapur University promised to implement the Model Curriculum on BFSI sector from A.Y. 2019-2020.
- The SPD, RUSA, Maharashtra also organized a meeting of the Principals of various autonomous colleges and called upon them to implement the Model Curriculum on BFSI Sector. A number of autonomous colleges gave an assurance of implementing the syllabus from A.Y. 2019-2020.
- Sydenham Faculty Development Centre has developed an online feedback module to seek feedback from teacher participants on its various training programmes. The modules seeks session-wise feedback after each sessions and overall feedback at the end of the session. The feedback from the teachers participants in 'Excellent' and their suggestions have been noted down to bring about further improvement in the quality of training courses.

The programmes run at the Centre are strategically positioned to satisfy the huge need for effective and need-based teacher training programs (pre-service and in-service) across all courses. Teacher participants are assessed through:

- Presentations on power-point.
- Group discussions.
- Development of MOOCs courses.

A scroll with a light-colored wooden frame and silver-colored metal clasps at the ends. The scroll is unrolled, revealing a dark brown parchment-like surface with a quote written in a cursive font.

“ We believe religion to be the surest foundation of character and the truest source of human happiness. We believe patriotism to be a powerful elevating influence which inspires men to high-minded unselfish action. ”





Tamil Nadu Teachers Education, Dindigul, Chennai

**A PROFILE**

1	Name of the Parent Institute	Tamil Nadu Teachers Education, Dindigul, Chennai
2	Project Duration	Since : 2018 To : 2020
3	Details of PAB ( proposal approved )	XI PAB held on 17th July 2018
4	Actual date of initiation	25th September 2018
5	Detail of Director / Coordinator	

Name : **Dr. M. Govindan,**  
Dean of Faculty, Professor and Head, Department of  
Educational Psychology,

Address : Tamil Nadu Teachers Education University Karapakkam,  
Chennai – 600 097.

Phone / Mob. : Ph. No.: 044-28389036, Mob.: 9442661408

E mail Address (Personal) : govindanedn@gmail.com

Office :





Tripura University, Tripura

**A PROFILE**

1	Name of the Parent Institute	TRIPURA UNIVERSITY
2	Project Duration	Since: 2016 To : 2020
3	Details of PAB ( proposal approved )	Fifth PAB
4	Actual date of initiation	07/09/2016
5	Detail of Director / Coordinator	

Name : **Prof. V.L. Dharurkar,**  
VC, TU(Coordinator)  
**Prof. Anjan Mukherjee**  
(Project Coordinator up to 23th May, 2019)  
**Prof. M.K. Singh**  
(Project Coordinator From 24th May, 2019)

Address : Faculty Development Centre, Tripura University,  
Suryamaninagar, Agartala, Tripura Pin-799022

Phone / Mob. : 08329916698 / 09436453970

E mail Address (Personal) : vc@tripurauniv.in

Office : fdc@tripurauniv.in / mksingh@tripurauniv.in

## B SUMMARY OF PROGRAMMES CONDUCTED

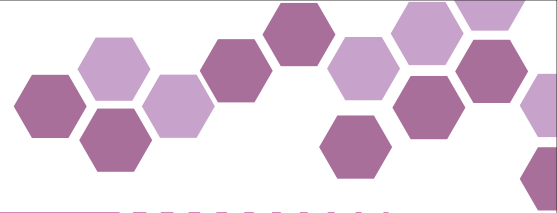
Year	Type of Programmes (FDC/RC/Workshop) and Subject / Title of the Programme	No. of Programs	Participation Gender wise		Participation Category wise						Participation Area wise		State wise Participation		Total
			Male	Female	SC	ST	NT	OPEN	OBC	Other	Local	Out station	Within State	Outside State	
2016	Induction Training Programme	01	29	13	05	17	00	12	08	00	22	20	42	00	42
2017	Research Scholar Training Programme	01	29	12	04	03	00	27	07	00	40	01	40	01	41
2017	Induction Training Programme	01	23	13	05	09	00	22	00	00	14	22	35	01	36
2018	Induction Training Programme	2	142	16	12	13	00	30	03	00	13	45	48	10	58
2019	Refresher Course	2	78	36	07	14	00	91	06	00	50	64	106	8	124

- **overall average age of the participants : 33 years**
- **overall average experience of the participants : 5 years**

## C THE MAJOR HIGHLIGHTS OF THE VARIOUS PROGRAMMES CONDUCTED BY THE FACULTY DEVELOPMENT CENTRE

There were 7 programmes organised, for the faculties and research scholars.

- Reputed scientists of different organisations of national importance were invited for delivering lectures. These includes the Padma Wade.
- The research scholars were taught on emerging areas of research, future prospects of research, research methodology, the use of different software like rsoftware for analysing the data as well as the LaTeX software for preparation of research manuscripts for submission to different journals and for presentation using beamer.
- In the three 30 days induction programmes, the participants were exposed to the different experts on Teaching and Learning methods, Administration, Evaluation process, Strategic Management, Research ethics, utilization of modern library resources available, Overtaking the problem of Plagiarism, Preparation of research articles using different open source data like Mandel.
- In the first Refresher Course, the participants were taught on 'Nai Talim'. Then there was a component on Gandhi's vision of education, which covered the importance of basic education in the curriculums. The other component was the present scenario of education, which covered the advanced methods of teaching and research.
- The second refresher course covered the topic on ICT and its role in improving quality and innovation in higher education.



D

## THE MAJOR LEARNING OUTCOMES OR TAKE AWAYS FROM THE PROGRAMS CONDUCTED

Participants feedback was collected, without disclosing their identity, asking ranking the lecture being delivered by resource persons giving one of the grades as satisfactory, good, very good, excellent. It was found that more than 70% of the lectures were in the grade of very good and excellent. This shows that the participants were benefited by attending the programmes.

Most of them interacted with the resource personnel during and after the lectures. It was found that some of the discussions were deep and on present issues on teaching and learning and the difficulties they are facing in their respective organizations. Accordingly they will implement after resuming their duties in their respective organizations. This is a step towards improving the quality of teaching, learning and administration in educational system, which is the aim and objective of the PMMMMNMTT.

The participants were given slots for presenting their research topic as well as topics of teaching, learning and administration in the presence of the experts. This helped them in improving their own skill as well as they could know about other's work. Also, some of them were interested for collaborations in future.

Over all according to the participants, they were satisfied and largely benefited by attending the programmes.

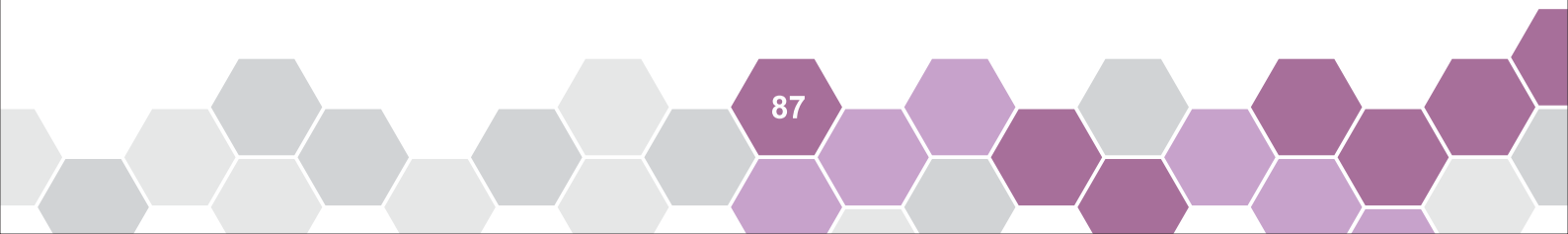
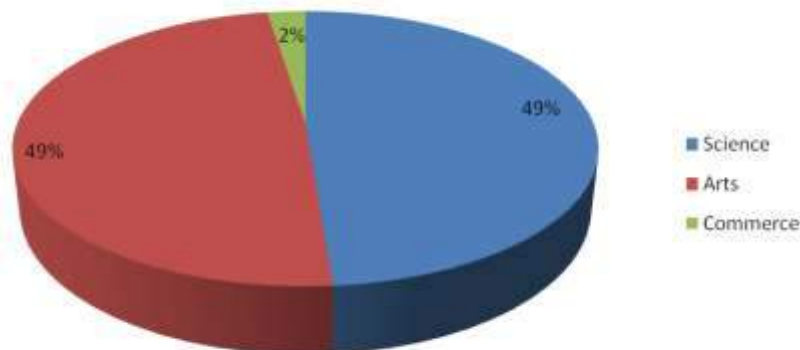
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## List of/Details of resource material generated :

1. Resource materials received after the approval of the respective resources persons were assembled. These materials are now in the final phase of publications as book in two volumes.
2. Faculty Development Centre, Tripura University is also entrusted with work of the translation of text books of Mathematics and Science of Tripura Board of Secondary Education in KOKBOROK Language. The work translation has been started and will be completed soon.

E

## FACULTY WISE DISTRIBUTION OF PARTICIPANTS





सत्यमेव जयते

**MHRD**

Government of India  
**Ministry of Human  
Resource Development**

PANDIT MADAN MOHAN MALAVIYA

**NATIONAL MISSION ON TEACHERS AND TEACHING (PMMMNMTT)  
FACULTY DEVELOPMENT CENTRE**