

PROPOSAL

ON

**TECHNICAL EDUCATION QUALITY IMPROVEMENT
PROGRAMME (TEQIP)
PHASE-III**

Submitted by:

**NITRA TECHNICAL CAMPUS, College code 802
(Affiliated to AKTU, Lucknow, U.P)
Sector-23, Rajnagar, Ghaziabad-201002, U.P**

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No.10/5/2016-R&D
Government of India
Ministry of Textiles

Udyog Bhawan, New Delhi
Dated the 27 January 2017

To

The Director,
North India Textile Research Association
Ghaziabad

Subject:- Request for Issue of NOC for receipt of grant by NITRA under TEQIP-III Scheme of Ministry of Human Resource Development.

Sir,

I am directed to refer to the letter No. NITRA/DG/6921 dated 18th January, 2017 received from Northern India Textile Research Association (NITRA), Ghaziabad on the above subject and to convey no objection of the Ministry of Textiles for participation of and receipt of grant by NITRA under TEQIP-III scheme of Ministry of Human Resource Development subject to the condition that the grant released from Ministry of Textiles under its scheme(s) will not be used for TEQIP-III scheme.

Yours faithfully,



(R.K.Srivastava)
Under Secretary to the Govt. of India
Tel-23061701
E-mail : ranjit.srivastava@nic.in

1. INSTITUTIONAL BASIC INFORMATION

1.1 Institutional Identity

- Name and address of the Institution : NITRA Technical Campus
Sector-23 Raj Nagar Ghaziabad (UP)
- Year of establishment : 2012
- Is the Institution AICTE approved? : Yes/No - Yes
Furnish AICTE approval No. : Northern/1-2812570215/2016/EOA
- Type of Institution : Govt. funded/ Govt. aided/NIT - **Govt. Aided self finance**
- Status of Institution : Autonomous Institution Status by UGC/Non-autonomous/
Technical University/ Deemed to be University
or University Engineering Faculty/ Department/
Constituent Institution- **Non-autonomous**
- Name and Designation of Head of the Institution (Full time appointee) : Dr. Arindam Basu – Director General

1.2 Academic Information:

- **Engineering UG and PG programmes offered in Academic year 2016-17:**

S. No	Title of programmes	Level (UG, PG, PhD)	Duration (Years)	Year of starting	AICTE sanctioned annual intake	Total student strength in all years of study
1	B.Tech	UG	4 years	2012	180	497 (Total intake: 578)

- **NBA Accreditation Status of UG and PG programmes as on 31st December 2016:**

Total no of programmes eligible for accreditation (at least one batch pass out): 02

No. of programmes accredited: Nil

No. of programmes applied for accreditation: Nil

- **Status of Faculty Associated with Teaching Engineering Students (Regular & Contract) as on 31st December 2016:**

No. of Sanctioned Regular Posts	Present Status : Number in Position by Highest Qualification												Total Number of regular faculty in Position	Total Vacancies	Total Number of contract faculty in Position
	Doctoral Degree				Masters Degree				Bachelor Degree						
	Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths and English/ other languages)		Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths and English/ other languages)		Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths and English/ other languages)				
R	C	R	C	R	C	R	C	R	C	R	C				
1	2	3	4	5	6	7	8	9	10	11	12	13	14= (2+4+6+8+10+12)	15=(1-14)	16= (3+5+7+9+11+13)
	3	0	2	1	10	9	11	0	2	0	3	1	31	2	11

R= Regular, C=Contract

2. INSTITUTIONAL DEVELOPMENT PROPOSAL (IDP) (Implementation period: April 2017- March 2020)

Vision, Mission and Philosophy of NITRA Technical Campus

Vision

To make **NITRA Technical Campus** an institute of international repute to provide “industry-ready professionals” and develop corporate visionaries with high moral standards, rich cultural values and ethics

Mission

To serve the society and enhance the quality of life through excellence and leadership in education by building a multicultural and outward-looking academic community that is committed to innovation and life-long learning.

Philosophy

We firmly believe that value-based learning makes significant impact in a dynamic and competitive working environment and link education to the business world it serves. We strive to instill in our students ...

In-depth Knowledge

Hard Core Professionalism

Interpersonal Skills

Total Dedication & Sincerity

Winning Attitude

2.1 Give the Executive Summary of the IDP (max 2 pages).

NITRA is an autonomous body partly funded by Ministry of Textiles, Govt. of India. NITRA set up its academic wing, NITRA Technical Campus, in the year 2012 to offer B.Tech programmes in Textile Technology and Computer Science and Engg. with an annual total intake of 120 seats (excluding fee waiver seats). In 2013, one more B.Tech branch (Textile Chemistry) was added with a seat intake of 60. The current student intake capacity is 864 seats (including fee waiver seats and lateral entry). The first batch of students passed out in 2016 with a 100% placement in textile technology and 80% in CSE.

NITRA Technical Campus has a total strength of 42 faculty members with Doctoral/Master's/ Bachelor's Degrees. NITRA in its pursuit to attain academic and research excellence, always lays special focus on research and consulting activities besides deputing faculty members to national and international conferences, seminars and workshops. Over the next 3 years, the institute will further encourage its faculty members to pursue higher qualifications, attend short courses and participate in conferences, seminars and workshops both in India and Abroad to keep themselves abreast with latest developments in technology and other related aspects. Eminent experts and faculties from reputed national and international institutions shall be invited to the campus to deliver lectures to the students and faculty members.

The institute has an excellent industry interface with textile industry. However it needs to strengthen interfacing with IT industry which shall be done in due course of time.

One of the major thrust areas under this project shall be to strengthen efforts to improve the performance of SC/ST/OBC/academically weak students by taking special measures like arranging tutorials sessions and appointing faculty mentors.

The institute will make twinning arrangements with high-performing state-government engineering institutions/international institutions for knowledge transfer, exchange of experience, optimizing the use of resources and developing long-term strategic partnerships.

To ensure that the project activities are sustained after the end of the project, the institute will create a Sustainability Fund and maintain a minimum of 8% of annual revenues in the same. These funds shall be utilized to sustain reforms in teaching, learning, research and institutional governance.

It is also proposed to start Master's Degree Programs in existing disciplines in the next 2-3 years.

To undertake the above-mentioned activities, an investment of Rs. 614.85 lacs for procurement of various items would be needed to strengthen the infrastructure facilities. A sum of Rs. 301.50 lacs would be required for faculty knowledge/qualification upgradation and other associated activities over a period of next 3 years. An operating cost of Rs. 105 lacs shall be needed for maintaining laboratory, library and internet resources (operating cost) over a period of next 3 years. Details are given in annex-2, 3 and 6. Year-wise fund requirement is given in annex-7.

2.2 Provide an action plan with timelines for : (not more than 1 page for each sub-activity)

(a) Improving the learning outcomes of the students

1. Faculty training (qualification upgradation, subject upgradation & research competence, Pedagogical training, participation in conferences, seminars/workshops etc.)

Faculty qualification upgradation is a regular on-going process at NITRA. NITRA has 6 faculty members with Doctoral Degrees, 30 with Master's Degree and 6 with Bachelor's Degree in the areas of textiles, computer science and applied sciences. In the last 10 years, NITRA had encouraged 6 of its faculty members to upgrade their qualifications from Bachelor's to Master's Degree from Anna University, Chennai. 3 of the faculty members are currently pursuing Ph.D from AKTU, Lucknow which is likely to complete in 3-5 years.

NITRA will further encourage its faculty members to upgrade their qualifications in the next 3 years. The tentative plan as follows:

	Year 1	Year 2	Year 3
No. of faculty members proposed for qualification upgradation	5	5	5

For subject upgradation & research competence, NITRA deposes its faculty members to participate in short term training programs organised by leading institutions like IITs etc. In the last 5 years, NITRA faculty members have attended 8 short duration programs in various institutions to upgrade their knowledge and research competence.

The tentative plan to depute faculty members for short term courses in the next 3 years is as follows:

	Year 1	Year 2	Year 3
No. of faculty members proposed for deputation for short term courses	10	10	10

Pedagogical training: Majority of faculty members are already trained and are well versed with modern technologies that are used in teaching. The faculty members shall be provided exposure on newer teaching technologies as and when the need arises.

Participation in conferences, seminars/workshops is also a regular feature at NITRA. NITRA faculty members attend conferences, seminars, workshops on a regular basis. In the last 5 years, 47 conferences, seminars, workshops have been attended by various faculty members. Each of these conferences, seminars, and workshops were attended by more than 2-3 faculty members. Details are given in annex-1.

Organising training programs, workshops, seminars and conferences: Besides attending conferences, seminars, and workshops, NITRA faculty members also organise such events on a regular basis. In the last five years, NITRA faculty have organized 242 training programmes, workshops, seminars and conferences.

The tentative plan to depute faculty members attend conferences, seminars, workshops in the next 3 years is as follows:

	Year 1	Year 2	Year 3
No. of faculty proposed to be deputed to attend conferences, seminars, workshops (In India)	20	20	20
No. of faculty proposed to be deputed to attend conferences, seminars, workshops (Outside India)	5	5	5
No. of conferences, seminars, workshops proposed to be organised (In India)	2	2	2
Hiring Eminent experts and visiting faculties from reputed institutions	5	5	5

2. Staff training (Technical & Administrative staff)

Majority of the technical staff in laboratories and workshops are either post graduates or graduates with minimum 10 years of hands-on experience in managing the laboratory activities. Some of the labs are also ISO-9001 and ISO-17025 certified labs. Many of the staff members have also been sent to foreign countries for training on modern equipments.

The tentative plan for training of technical staff for further up-gradation of technical skills is as follows:

	Year 1	Year 2	Year 3
No. of technical staff to be trained	5	5	5

Administrative staff is also given need-based training as and when required to equip them with various job requirements.

The tentative plan for training of administrative staff for further up-gradation of their skills is as follows:

	Year 1	Year 2	Year 3
No. of admn staff to be trained	3	3	3

The estimated cost of conducting the above activities over a period of next 3 years is given in Annex-2.

3. Increasing capacity of UG, PG and PhD education (increasing enrollment and starting new UG, PG and PhD programmes)

Currently, NITRA Technical Campus is offering 3 Undergraduates programs (B.Tech) affiliated to AKTU, Lucknow. The total annual intake of all the 3 disciplines is 180 per year (excluding lateral entry and fee waiver candidates). Total sanctioned strength for all the 4 years is 864 students.

In the next 3 years, it is proposed to start Master's Degree Programs in existing disciplines. NITRA is already an approved research centre by many Indian universities to carry out research activities for Doctoral programs.

4. Investing in smart classrooms, campus Wi-Fi (24*7 broadband connectivity and Wi-Fi access in all academic and administrative buildings and hostels (with a minimum of 2 MBPS speed for each connection)), e-library etc.

At present, the classrooms are equipped with LCD projectors. Use of Smart boards for better student learning shall be considered in the next 1-2 years.

All the academic, administrative and hostel blocks are equipped with Wi-Fi facilities. Facilities will further be strengthened with 50 MBPS speed.

NITRA Technical campus has following e-library resources- IEEE, GATE and ASTM which are utilized by the students and faculty members. These e-library facilities shall be strengthened in future.

The estimated expenses of upgrading the WI-FI and Library facilities over a period of next 3 years is given in Annex-3.

5. Improving the academic performance of SC/ST/OBC/academically weak students through innovative methods, such as remedial and skill development classes, peer assisted learning for increasing the transition rate, non cognitive skills and pass rate

NITRA Technical Campus will undertake following measures to improve academic performance of SC/ST/OBC/academically weak students.

i) Improving Performance in Academic Subjects. To help students deal with specific academic weaknesses, remedial classes shall be arranged during the semester. Extra inputs shall also be provided by way of tutorial classes where students can interact with each other and also with faculty members.

ii) Enhancing English Communication and Presentation Skills. This will include giving additional focus on English language labs, tutorials for everyday English, opportunities to make presentations in the classroom, etc.

iii) Faculty Mentors for Students. A Faculty Mentor (FM) shall be appointed for every 10-15 students entering in the first year that will help in establishing a close relationship with these students, orienting them to college practices and following their progress regularly. The FM shall find out any non-academic reasons for a student's weak or declining performance, and advise on appropriate study or other measures to be taken. The FM shall also mediate between a student and other faculty, if necessary and get in touch with parents whenever required.

6. Instituting academic and non-academic reforms including programme flexibility (Is there any need to revise the curriculum? When it was last revised?)

NITRA Technical campus do not have the flexibility to carry out academic reforms as the institute is affiliated to AKTU, Lucknow. However, there is a definite need to revise the curriculum at regular intervals to meet the industry requirements.

At its own level, the institute regularly takes measures to improve its academic and non-academic activities. These measures include regular student interact to ensure maximum attendance in the classrooms, periodic student assessment, faculty feedback by students etc. Faculty members are motivated to continuously identify new areas of research activities and interact with industry to offer consultancy services that helps them to share the knowledge with the student groups.

(b) Improving employability of the students

7. Increasing interaction with industry (What are the industries located in the vicinity? What role of industry is perceived for the institute?)

NITRA Technical campus is situated in close proximity to the textile and apparel sector. There are several leading textile and garment manufacturing companies, besides IT companies situated in National Capital Region (NCR).

NITRA has a very strong Industry-Institute Interaction (III). There are over 500 companies that avail the services of NITRA every year. Services include using NITRA testing facilities, consultancy services and training & skill up-gradation programmes for their employees.

NITRA regularly invites experts from the industry, machinery manufacturers, and leading technical educational institutions like IIT, Delhi to:

- i) deliver expert lectures on latest technologies to the students and faculty.
- ii) assess its students for various practical examinations.

NITRA also send its students for industrial training to leading companies of textile and IT sectors to provide them opportunities to get exposure on industry practices and face live problems.

For the proposed M.Tech programs to be started in next 2-3 years, NITRA Technical campus shall invite experts from the beneficiary industry to be closely associated with the faculty members and students in various activities like conducting research projects, workshops and seminars and dissertation work.

8. Student career counseling and placement

NITRA Technical campus has an active placement cell which looks after student career counselling and placement activities. The cell helps the students in their career planning, summer training and final placements. The placement cell stays in touch with the senior executives of various corporate houses to understand their requirements and arrange summer training and placements for the students.

Besides summer training and placement activities, the cell is also actively involved in arranging guest lectures on technical aspects and soft skills for overall personality development of the students.

(c) Increasing faculty productivity and motivation

9. sponsored research, consultancy and other revenue generating activities

NITRA faculty members are engaged in research (both sponsored and in-house projects) and consultancy activities on a regular basis. Research papers are also presented/published in various magazines, journals, conferences and seminars from time to time.

- No. of research projects completed/in progress in the last 5 years:
50
- No. of research papers presented/published in the last 5 years: 120
- No. of consultancy activities undertaken in the last 5 years : 163

List of research projects and research papers undertaken by NITRA faculty are given in annex 4 and 5.

2.3 Provide an action plan with timelines for

1. Obtaining autonomous institution status from UGC

NITRA Technical campus is not an autonomous institute. It is affiliated to AKTU, Lucknow.

2. Improving the NBA accreditation status

As only one (1) batch has passed till Jan 2017, NITRA Technical campus is not eligible to apply for NBA status. As and when the institute meets the eligibility criteria, it shall apply for NBA accreditation.

2.4 Describe the following in brief:

1. Is any enhanced assistance/mentoring that the institution is looking forward from its ATU?

The institute is not looking forward to any assistance/mentoring from its ATU in the near future.

2. Does your BoG need strengthening, if yes, then how?

The BoG fulfils the requirement as prescribed by AICTE.

3. Is there an ERP/MIS system existing, if yes, then any improvement, modification suggested.

The institute had ERP Education Module. It does not require any improvement or modification.

4. Is there any mechanism i.e. special classes being conducted in the institution for improving the GATE score?

No

2.4 Provide a Twinning Plan with a high performing institute with the objective of capacity building knowledge transfer and developing long term strategic partnerships. (Twinning plan will be formalized into twinning agreement after finalizing the twinning partner).

The institution will make twinning arrangements with high-performing state-government engineering institutions/international institutions for knowledge transfer, exchange of experience, optimizing the use of resources and developing long-term strategic partnerships.

Specifically, the institute shall be looking forward to have twinning arrangements by way of long-term strategic partnerships in following areas:

a) Knowledge transfer in the areas of New Developments in Textiles Fibres and their processing, Non-wovens and technical textiles.

b) Faculty Exchange programs in textile technology, textile chemistry, technical textiles and application of Big Data and Data Mining techniques.

2.6 Is there any difficulty in Recruitment and selection of high-quality faculty? If yes, what are the reason & action plan to solve the issue?

No. the institute does not face any difficulties in recruitment and selection of high-quality faculty. There is a very high level of faculty retention in the institute.

2.7 Give an action plan for ensuring that the project activities would be sustained after the end of the Project.

The institute is committed to ensure that various activities involved in the project like faculty qualification up-gradation, improving research competence, improving student learning methods etc are sustained even after the end of the project.

This will be done by way of creating a Sustainability Fund where a minimum of 8% of annual revenues shall be deposited. These funds shall be utilized to sustain reforms in teaching, learning, research and institutional governance.

2.8 Describe briefly the participation of departments/faculty/students in the IDP preparation.

The Departments of Textile Technology, Textile Chemistry and Computer Science and Engg were involved in the preparation of this IDP. Following faculty members were involved in the preparation of IDP activities.

1. Dr. Arindam Basu
2. Mr. A. Pal
3. Dr. M. S. Parmar
4. Mr. Vivek Agarwal
5. Mr. A. K. Singh
6. Dr. B.K. Sharma
7. Mr. Sanjeev Shukla
8. Mr. K. K. Dewan

FACULTY PARTICIPATION IN HRD PROGRAMS

S.No.	Title	Venue	Date	Participants Status
1.	53 rd Joint Technological Conference	BTRA Mumbai	Feb. 17-18, 2012	M.S. Parmar Ankur Makhija Rajiv Kumar Paurush Godhar As speakers
2.	National Seminar on Emerging Paradigms of IT in Management	IPEM, Ghaziabad	March 17, 2012	B.K. Sharma As speaker
3.	National Conference on Technical Textiles - Protech & Indutech by NITRA, Gzb. & PSGTECHS COE INDU-TECH, Coimbatore	PSG College of Technology, Coimbatore	Jan. 24, 2012	J.V. Rao A.K. Agarwal M.S. Parmar As speakers
4.	National Workshop on Technical Textiles-Protective Textiles (Protech) by NITRA, Gzb. & Jaya Engineering College, Chennai	Jaya Engg. College, Chennai	Jan. 25, 2012	J.V. Rao A.K. Agarwal M.S. Parmar As speakers
5.	Workshop on Operation, Maintenance & Troubleshooting of ETP	NITRA, Ghaziabad	Feb. 22-24, 2012	S. Kumar C.B. Chaurasia A.A. Ansari As speakers
6.	Technotex	Mumbai	Aug. 25-27, 2011	R.S. Yadav U.C. Sharma Sanjiv Shukla M.M. Tiwari Ankur Makhija B.P.S. Jadon Santosh Kumar A.K. Pandey V. Satyanarayan As delegates
7.	International Conference on Apparel and Home Textiles (ICAHT)	India Habitat Centre, Delhi	Sept.30 & Oct.1, 2011	M.M. Tiwari Shweta Saxena Neha Kapil Monika Choudhary Ankur Makhija As delegates

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S.No.	Title	Venue	Date	Participants Status
8.	Seminar on Sewing Threads - Quality Requirements & Its Significant in Sports Goods Industry by NITRA Gzb. & PPDC, Meerut	PPDC, Meerut	June 15, 2011	R.K. Gaur As speaker
9.	Seminar on Protective Textiles - Personnel and Aerospace fabric	16 BRD Air-Force, Delhi	Oct.11, 2011	M.S. Parmar As speaker
10.	National Seminar on Safety & Survival Equipment	16 BRD Air-Force, Delhi	Nov.21, 2011	M.S. Parmar As speaker
11.	4 th International Conference on Data Management	IMT, Ghaziabad	Nov.17-18, 2011	B.K. Sharma As session chairperson
12.	5 th IEEE International Conference on Advanced Computing and Communication Technology	APIIT, Panipat	Nov. 5, 2011	B.K. Sharma As speaker
13.	Project Management	PHD Chamber & Konrad-Adenauer-Stiftung, New Delhi	Aug.10, 2011	Rajiv Kumar B.P.S. Jadon Ankur Makhija Paurush Godhar Monika Choudhary Santosh Kumar As delegates
14.	International Commercial Practices	PHD Chamber & Konrad Advenquer-Stiftung, New Delhi	Sept.9, 2011	Ankur Makhija As delegate
15.	ITMA, 2011	Barcelona, Spain	Sept.19-25, 2011	A. Pal M.S. Parmar A.V. Agarwal Vivek Agarwal A.K. Agarwal Sanjeev Shukla As delegates
16.	Training Program on In-house Calibration of Equipment and Estimation of Measurement Uncertainty in Testing and Calibrarion.	NITRA, Ghaziabad	Feb.27 & 29, 2012	Laboratory Staff As delegates

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Sl. No.	Title	Venue	Date	Participant's Status
17.	International Conference on Apparel and Home Textiles Organized by OGTC	India Habitat Centre, New Delhi	Sept.,2012	M.M. Tiwari M.K. Bansal Shweta Saxena Neha Kapil Ankur Makhija Kushagra Prakash As delegates
18.	Special Conference on "Retail India - Advantage farmers, Industry and Consumers" Organized by ASSOCHAM	Hotel Lalit, New Delhi	Oct. 2012	Vivek Agarwal M.K. Bansal Partha Basu K.K. Dewan Kushagra Prakash As delegates
19.	54 th Joint Technological Conference	ATIRA, Ahmedabad	Jan. 9, 2013	J.V. Rao M.S. Parmar KushagraPrakash As speakers
20.	Conference on Customer Relationship Management	PHD House, New Delhi	Jan. 2013	Vivek Agarwal M.K. Bansal K.K. Dewan KushagraPrakash As delegates
21.	Making Organisation Competitive Thru KAIZEN & 5S	PHD House, New Delhi	Jan. 29, 2013	U.C. Sharma R.S.Yadav As delegates
22.	ITME' 2012 Convention & Exhibition Centre, Mumbai	Bombay	3-7 Dec'2012	Rajiv Kumar Parush Godhar R.K. Sharma M.K. Bansal As delegates
23.	Understanding Lab Test Reports	NITRA, Ghaziabad	Nov. 3 & Dec. 29, 2012	M.S. Parmar A.K. Singh A.A. Ansari Maheshwar Singh As speakers
24.	2nd International Conference on Academic Libraries	G.C.S.I. University,	12-15 Feb, 2013 New Delhi	Abbas Raza As delegate
25.	Non-woven and Technical	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar (Pb)	Oct. 5-6, 2012	Rajiv Kumar As delegate

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Sl. No.	Title	Venue	Date	Participant's Status
26..	15 th India International Security Expo	Pragati Maidan, New Delhi	Sept. 13-16, 2012	M.S. Parmar Rajiv Kumar As delegates
27.	International Conference on Emerging Trends in Computer Science & Information Technology (ICETCSIT-2012)	SJIT University, Jhunjhunu Rajasthan	April 9-10, 2012	B.K. Sharma As speaker
28.	International Conference on Recent Trends in Computing (ICRTC-2012)	SRM University, Modi Nagar	Oct. 5, 2012	B.K. Sharma As speaker
29.	National Conference on Research & Development in Computational and Information Technology	SRM University, Modi Nagar	Sept. 7, 2012	B.K. Sharma As speaker
30.	3rd International Summit CONFLUENCE 2012	Amity University, Noida	Sept. 28, 2012	B.K. Sharma As delegate
31.	Private Cloud Landscape	MTU, in India	March 20, 2013 Noida	M.S. Raizada B.K. Sharma Kishan Dewan As delegates
32.	Internal Auditors Program (ISO/IEC 17025:2005 NABL)	NITRA, Ghaziabad	Feb. 27 & 29, 2012	Laboratory Officers & Staff As delegates
33.	Training of trainers	NITRA, Ghaziabad	Feb. 18, 2013	Girish Verma M.C. Gangwar A.R. Maithani V.S. Kushwaha R.K. Bhatia As delegates
34.	Technotex 2013	Pragati Maidan, New Delhi	Jan 17-19, 2013	M.S. Parmar A.K. Agarwal Rajiv Kumar As delegates

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Sl. No.	Title	Venue	Date	Participant's Status
35.	International Conference on Apparel and Home Textiles Organized by OGTC	India Habitat Centre, New Delhi	Sept. 20-21, 2013	Vivek Agarwal M.M. Tiwari M.K. Bansal Partha Basu Shweta Saxena Neha Kapil K.K. Dewan Ankur Makhija Kushagra Prakash As delegates
36.	Excellence in Customer Services	PHD House New Delhi	Feb.4, 2014	Vivek Agarwal M.K. Bansal Partha Basu K.K. Dewan Kushagra Prakash As delegates
37.	National Conference on Next Generation Information Technology Innovation and Challenges in National Development	Institute of Professional Excellence & Management (IPEM), Ghaziabad	21 st March, 2015	B.K. Sharma (as speaker)
38.	Application Training on Clarus SOS GC-MS and Clarus 580 GC-ECD	Eco Lab NITRA, Ghaziabad	28 th -29 th Jan & 9 th -10 th Feb, 2015	Harendra Singh Nidhi Sisodia (as delegates)
39.	Faculty Development Program on Spoken Tutorials Project - IIT Bombay (Under the National Mission on Education through ICT, MHRD, New Delhi)	MTU, Noida	4 th Feb., 2015	Avnish Sharma Krishan Dewan (as delegates)
40.	Faculty Development Program on "Android Application Development" (In collaboration with HCL infosystem)	Ideal Institute of Technology, Ghaziabad	14 th Feb., 2014	B.K. Sharma Avnish Sharma (as delegates)
41.	Quality Improvement Programme on Sizing Fit & Design of Functional Clothing	IIT, Delhi	3 rd to 7 th Nov., 2014	Shweta Saxena Ankur Makhija Asif Ali (as delegates)

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Sl. No.	Title	Venue	Date	Participant's Status
42.	International Conference on Apparel and Home Textiles Organized by OGTC	India Habitat Centre, New Delhi	19 th & 20 th Sept. 2014	Vivek Agarwal M.M. Tiwari Shweta Saxena Kushagra Prakash Ankur Makhija (as delegates)
43.	Lecture on Fashion Marketing	YMCA, New Delhi	Sept., 2014	Vivek Agarwal (as speaker)
44.	ISTE Main Workshop on Computer Programming (Under the National Mission on Education through ICT, MHRD, New Delhi)	Krishna Institute of Engg. & Technology, (KIET), Ghaziabad	16 th -21 st June, 2014	Avnish Sharma (as delegate)
45.	Seminar on Emerging Trends in Fashion and Retail Industry	India Habitat Centre, New Delhi	5 th April, 2014	Vivek Agarwal (as speaker)
46.	National Employabilty Conclave 2015-16	Hotel Shangri-La's - Eros Hotel, Delhi	18 th January, 2016	Keshav Jindal Gaurav Agarwal (as delegates)
47.	6 th International Conference on Cloud System and Big Data Engineering, CONFLUENCE-2016	Amity University, Noida	14 th -15 th Jan., 2016	B.K. Sharma (as session chair person)
48.	Indian International Science Festival - 2015	IIT, New Delhi	4 th - 8 th Dec., 2015	Gaurav Agarwal (as delegate)
49.	International Conference on Apparel and Home Textiles organized by OGTC	India Habitat Centre, New Delhi	31 st Oct., 2015	Shweta Saxena Punit (as delegates)
50.	Awareness Program on ISO 9001 : 2015	Hotel JW Marriot, New Delhi	19 th Oct., 2015	R.K. Gaur (as delegate)
51.	National Workshop on Integrated Skill Development Scheme (ISDS)	India Habitat Centre, New Delhi	27 th Aug., 2015	Dr. Arindam Basu (as session Chair-person) R.K. Gaur (as delegate)

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Sl. No.	Title	Venue	Date	Participant's Status
52.	Program on Reliable Information Security, Threats and Issue	Ajay Kumar Garg Engg. College, Ghaziabad	4 th April, 2015	B.K. Sharma (as Jury member)
53.	Training Program for NITRA's Assessor's accreditation by Resource Support Agency (Textile Committee), New Delhi	NITRA, Ghaziabad	7 th Aug.,2015	Technical Officers of NITRA (as delegates)
54.	Lectures on "Propelling Growth through New Products & Innovation Management" and "Extreme Cold Weather Clothing".	NITRA, Ghaziabad	15 th Dec.,2015	Technical Officers of NITRA (as delegates)
55.	Insights into the New ISO 9001:2015	QCI, New Delhi	19 th Oct., 2015	R.K. Gaur (as delegate)

Annex-2**ESTIMATED EXPENSES FOR ACHIEVING ACADEMIC EXCELLENCE**

(Rs. in lacs)

S.No	Activity Head	Year-1	Year-2	Year-3	Total
1	Qualification Upgradation	20	20	20	60
2	Short term courses	10	10	10	30
3	Attending Workshops, seminars and conferences (In India)	7.5	7.5	7.5	22.5
4	Attending Workshops, seminars and conferences (Abroad)	15	15	15	45
5	Organising Workshops, seminars and conferences (In India)	20	20	20	60
6	Hiring Eminent Experts and visiting faculties from reputed institutions	20	20	20	60
7	Technical Staff Training	5	5	5	15
8	Administrative Staff Training	3	3	3	9
	Total	100.5	100.5	100.5	301.5

Annex-3**YEAR-WISE OPERATING COST**

S.No	Head	Year 1	Year 2	Year 3	Total
1	AMC for Equipments	10	10	10	30
2	50 MBPS Internet Charges	5	5	5	15
3	Fellowship for Non-Gate Students	2.5	2.5	2.5	7.5
4	E-journals	10	10	10	30
5	Magazines and Journals	6	6	6	18
	Total	33.5	33.5	33.5	100.5

Annex-4

List of Govt. Sponsored R&D Projects – Last 5 years

S.No	Govt. Sponsored R&D Projects	PI	Sponsoring Agency	Duration (Months)	Amount (Rs. Lac)	Status
1	Development of cut resistant & abrasion resistant protective textile by using composite metallic yarn	Dr. A. V. Agarwal	Ministry of Textiles, Govt. of India	18	35.01	Completed
2	Development of technology to produce seamless low cost jute carry bags using modified power loom	Sh. A.K. Pandey	National Jute Board, Kolkata	18	40.74	Completed
3	Development of an apparatus to determine heat and light cutting ability of curtain	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	18	43.70	Completed
4	Exploring the possibility replacing texturized nylon filament yarn with eco-friendly high twist cellulose yarns by doing slack mercerization	Sh. U.C. Sharma	Ministry of Textiles, Govt. of India	24	46.64	Completed
5	Development of special functional fabric for bedding and sports wear for providing extraordinary comfort with excellent micro climate.	Sh. Sanjeev Shukla	Ministry of Textiles, Govt. of India	18	33.72	Completed
6	To explore the possibility of application of Cornhusks in textiles	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	18	33.76	Completed
7	Designing a compressed air monitoring system to optimize energy consumption in a textile mills.	Sh. Vikas Sharma	Ministry of Textiles, Govt. of India	18	78.00	Completed

S.No	Govt. Sponsored R&D Projects	PI	Sponsoring Agency	Duration (Months)	Amount (Rs. Lac)	Status
8	Development of specialty embroidery yarn for application in stretchable fabrics, like knitted fabrics	Sh. Neeraj Agarwal	Ministry of Textiles, Govt. of India	18	28.80	Completed
9	Development of Fabric Smoothness Tester	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	18	53.27	On-going
10	Study to Enhance Indian Apparel Exports	Sh. Vivek Agarwal	Ministry of Textiles, Govt. of India	12	42.50	On-going
11	Development of Protective Work Wear for cement Porters.	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	24	46.12	On-going
12	Development of smart protective textiles for fire fighter, soldier and old-age people (with SITRA)	Dr. Arindam Basu	Ministry of Textiles, Govt. of India	24	46.00	On-going
13	Development of Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing.	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	24	37.28	On-going
14	Development of Electronic Drape meter based on Image Analysis Technique	Dr. Arindam Basu	DST, Govt. of India	24	36.14	On-going
15	New Approaches to Reduce Water Consumption in Textile Wet Processing	Dr. M.S. Parmar	Ministry of Textiles, Govt. of India	36	60.80	On-going

RESEARCH PAPERS PUBLISHED AND PRESENTED

S.No.	Title	Author(s)	Publication/ Place	Date
1.	Reduction of Style Changeover Time in Garment Industry	Ankur Makhija	53 rd JTC held at BTRA, Mumbai	17 & 18 Feb., 2012
2.	To Study Suitability of Cornhusk Fibers for Textile Applications : A Preliminary Investigation	Archana Jain M.S. Parmar	53 rd JTC held at BTRA, Mumbai	17 & 18 Feb., 2012
3.	Fire Retardant Fabrics from Corn Fibres	Rajiv Kumar Abhijit Pal M.S. Parmar	53 rd JTC held at BTRA, Mumbai	17 & 18 Feb., 2012
4.	Development of Combat Uniform Cloth from various Blends for the purpose of Safety and Comfort of Soldiers	M.S. Parmar Santosh K.Singh M. Singh Sushil Hada J.V. Rao	53 rd JTC held at BTRA, Mumbai	17 & 18 Feb., 2012
5.	An Approach towards Energy Efficiency Mechanism through PAT Scheme	Paurush Godhar Vikas Sharma	53 rd JTC held at BTRA, Mumbai	17 & 18 Feb., 2012
6.	Sampling, Preservation and Analysis of Effluents	A.A. Ansari	Seminar on Operation, Maintenance & Trouble Shooting of ETP held at NITRA Ghaziabad	22 - 24 Feb., 2012
7.	Use of Clustering to Improve the Standard of Education System	S.P. Singh B.K. Sharma	International Journal of Applied Information System, Foundation of Computer Science, New York, USA, Vol.1, No.5.	February, 2012
8.	Application of Data Mining for Calculating Cost-Effectiveness in e-Advertisements	Shilpi Bansal B.K. Sharma	National Conference on Role of Information and Communication Technology in Higher Education conducted by Seth MLPG College, Jhunjhunu, Raj	12 - 13 Feb., 2012
9.	Garment Washing using Ultrasonic Energy : An Alternative to Manual Subscription	Sabina Sethi M.S. Parmar J.V. Rao	Colourage	January, 2012

10.	Application of Information Technology in Indian Industry	B.K. Sharma	National Seminar on Emerging Paradigms of IT in Management IPEM, Ghaziabad	March, 2012
11.	Manufacture of NYCO Fabric for Paramilitary and Military Combat Uniforms	M.S. Parmar M. Singh Santosh K.Singh J.V. Rao S.K. Hada Preeti Kaur Sachdeva	Asian Textile Journal	Dec. 2011
12.	Effect of Vat Dyes on UV Protective Properties of Cotton Fabric	Neha Singh Suman Pant Pankaj Gill M.S. Parmar	Textile India Progress	Nov., 2011
13.	Application of Data Mining to Estimate Effective Utilization of e-advertisement	Shilpi Bansal B.K. Sharma	4 th International Conference on Data Management at IMT Ghaziabad	17 - 18 Nov., 2011
14.	Application of Information Technology in the Context of Indian Textile Industry	B.K. Sharma S.K. Tyagi	5 th IEEE International Conference on Advanced Computing and Communication Technology, APIIT, Panipat	5 Nov., 2011
15.	NYCO Fabric for Paramilitary and Military Uniform	M.S. Parmar M. Singh Santosh K.Singh J.V. Rao	Fashion ERA	Sept, 2011
16.	Emerging Research Issues of Effective Utilization of e-Ads	Shilpi Bansal B.K. Sharma	Prabandhan-IIMS Journal of Management, Vol.3, Issue-I, 2011	July, 2011
17.	Development of NYCO Fabric for Paramilitary and Military Combat Uniforms	M.S. Parmar A. Pal R.S. Yadav M. Singh Santosh K.Singh J.V. Rao Ajai Sardana S.K. Hada Preeti Kaur Sachdeva Vibha Yadav	52 nd JTC held at SITRA , Combatore	28-29, July, 2011
18.	A Study to Assess the Properties of Bamboo and Bamboo / Cotton Blended Fabrics	Neeraj Agarwal M.S. Parmar Rajeev Kumar B.P.S. Jadon	52 nd JTC held at SITRA, Combatore	28-29, July, 2011
19.	Waste Minimization on Rapier Loom	A.K. Pandey B.P.S. Jadon	52 nd JTC held at SITRA, Combatore	28-29, July, 2011

20.	Study on Apparels Manufactured from Delicate Fabrics	Vandana Singh Sangita Saini Vivek Agarwal J.V. Rao	52 nd JTC held at SITRA ,Combatore	28-29, July, 2011
21.	Performance Analysis of Various Cluster Generating Algorithms - Tools of Data Mining	S.P. Singh B.K. Sharma	International Journal of Computer Science & Information (VRSD) Technology, Vol.I	July, 2011
22.	A Study of Retail Outlets to Optimization the Sale and Stock Problems using Data Mining	S.P. Singh B.K. Sharma	An International Journal for Management, IT & Communication (Vision Catalyst)	July, 2011
23.	A Review on National and International Scenario on Combat Uniform	M.S. Parmar M. Singh Santosh K.Singh	Asian Textile Journal	June, 2011
24.	Surface Modification of Milkweed Fibre to Manufacture Yarn	Mansi Bahal Chitra Arora M.S. Parmar J.V. Rao	Colourage	March, 2013
25.	Removal of Drimarine Green Dye from Textile Waste Water using Cynodon Dactylon as Adsorbent	M.S. Ansari Dr. A.H. Ansari Dr. A.A. Ansari	Journal of Ultra-chemistry	March, 2013
26.	Cost of Internal Failure and Its Implications in a Garment Industry	Kushagra Prakash Vivek Agarwal Shweta Saxena	Fibre 2 Fashion	15 Feb., 2013
27.	Development of an Instrument to Determine Light and Heat Cutting Ability of Textiles	M.S. Parmar Vikas Sharma Preeti K.Sachdeva M. Singh	54 th JTC, ATIRA, Ahmedabad	9 Jan., 2013
28.	Energy Saving Opportunities in Textile Processes	J.V. Rao Paurush Godhar	54 th JTC, ATIRA Ahmedabad	9 Jan., 2013
29.	Cost of Internal Failure and Its Implications in a Garment Unit	Kushagra Prakash Vivek Agarwal Shweta Saxena	54 th JTC, ATIRA Ahmedabad	9 Jan., 2013
30.	Energy Information and Monitoring for Fuel Conservation in Textile Industry through ICT Application	B.K. Sharma	International Journal of Engg. & Science Research, No.8, pp 66-75	Jan., 2013
31.	Combat Uniform Cloth from various Blends : A Comparative Study for the Purpose of Safety and Comfort of Soldiers	M.S. Parmar Preeti K.Sachdeva Maheshwar Singh Sushil Hada J.V. Rao	Colourage	Dec., 2012

32.	Safe Public Places thro' PPP Textiles	M.S. Parmar	Seminar Organised by BIS	14 Dec.,2012
33.	Application of Clustering Technique for Evaluating Cost-Effectiveness in e-advertisement	Shilpi Bansal B.K. Sharma	International Journal of Data Warehousing	July-Dec, 2012 Vol.4, No.2, pp.81-85
34.	Energy Information and Monitoring for Fuel Conservation in Textile Industry through ICT Application	B.K. Sharma	International Conference on Recent Trends in Computing organized by SRM University	5 Oct, 2012
35.	Aviation Textiles : Test Methods, Important Check Points and Reporting Workshop on "Do's & Don'ts on Safety & Survival Equipment	M.S. Parmar	16 Base Repair Depot, Air Force, Palam, New Dlehi	18 Oct, 2012
36.	New Investments in Indian Technical Textile Industry	M.S. Parmar	Seminar, International Textile & Apparel Fair, Jaipur Rajasthan	22 to 25 Nov., 2012
37.	Importance of QR's for Procurement of Protective Textiles : A Case Study CRPF CoBRA	M.S. Parmar	15 th India International Security Expo, Pragati Maidan, New Delhi	13 Sept, 2012
38.	Relevance of Quality and Quality Related Customer Complaints	M.S. Parmar	8 th International Conference on Apparel & Home Textiles, India Habitate Centre, New Delhi	21 & 22 Sept, 2012
39.	Efficient Data Accessing through Heterogeneous ERP Solution	R.K. Rambol Nesar Ahmad B.K. Sharma	International Journal of Computer Application, Foundation of Computer Science, New York, USA, Vol. 53, No.6	Sept., 2012
40.	Performance Analysis & Application of Clustering Algorithms for Quality Enhancement of Education System	S.P. Singh B.K. Sharma	3 rd International Summit CONFLUENCE 2012, Amity University, Noida	28 Sept.,2012
41.	Leachy Peel dye	M.S. Parmar etc.	Fibre 2 Fashion	10 July, 2012

42.	Application of IT and Its Use in Textile Industry	B.K. Sharma S.K. Tyagi	An International Conference on Emerging Trends in Computer Science & Information Technology (ICETCSIT-2012) at SJJT University, Jhunjhunu, Rajasthan	9 & 10 Apr., 2012
43.	Application of Data Mining to Explore Effective Utilization of e-Advertisement in various Industry	Shilpi Bansal B.K. Sharma	International Journal of computer Application, Foundation of Computer Science, New York, USA	April, 2012
44.	Studies on adsorption behaviour of heavy metals on mixture of fly ash and sand for removal of heavy metals from textile effluents.	A.A. Ansari et.al.	Journal of Ultra Chemistry	March, 2014
45.	Sound Absorbing Properties of Some Auto Text Materials	Rakesh Sharma M.S. Parmar Nidhi Sisodia	International Journal of Materials Physics (IJMP), Vol.5, No.1, (2014), pp. 1-4	March, 2014
46.	“Energy Metrics Analysis of Roof-Top Photovoltaic System”	Saurabh K.Rajput et.al.	EPICS-2014, IEEE Sponsored National Conference, organized by Galgotia College of Engineering & Technology	March, 2014
47.	“Energy Pay Back Analysis of Roof-Top Photovoltaic (PV) System with MPPT”	Saurabh K.Rajput et.al.	EPICS-2014, IEEE Sponsored National Conference, organized by Galgotia College of Engineering & Technology	March, 2014
48.	Implementation of Cloud Computing in Education System	Manoj Sharma Keshav Jindal B.K. Sharma	International Journal of Engineering Research and Management Technology, Vol. No.1, Issue No.1, pp. 35-40.	March, 2014
49.	Optimization of Website based on Visualizing the Navigation Patterns of Users using Association	B.K. Sharma S.P. Singh	Mining at International Conference on Advanced Development in Engineering & Technology organized by Lord Krishna College of Engg., Ghaziabad	Feb.15-16, 2014

- | | | | | |
|-----|---|---|---|-----------------|
| 50. | Data Mining to Support Decision Process in Decision Support System | Keshav Jindal
Manoj Sharma
B.K. Sharma | International Conference on Advanced Development in Engg. & Tech. organized by Lord Krishna College of Engg., Ghaziabad | Feb.15-16, 2014 |
| 51. | Analysis of IDS Tools & Techniques | Manoj Sharma
Keshav Jindal
B.K. Sharma | International Conference on Advanced Development in Engg. & Tech. organised by Lord Krishna College of Engg., Ghaziabad | Feb.15-16, 2014 |
| 52. | Influence of High Module Temperature on Opaque and Semitransparent Type Photovoltaic Modules : A Comparative Analysis | S.K. Rajput
Rakesh Sharma
V. Chaturvedi | International Conference on Advanced Engg. & Tech. organized by Lord Krishna College of Engg., Ghaziabad | Feb.15-16, 2014 |
| 53. | Data Mining to Support Decision Process in Decision Support System | Keshav Jindal
Manoj Sharma
B.K. Sharma | International Journal of Emerging Technology and Advanced Engineering, Vol.No.4, Special Issue 1, pp 41-46 | February, 2014 |
| 54. | Analysis of IDS Tools & Techniques | Manoj Sharma
Keshav | International Journal of Emerging Technology and Advanced Engineering, Vol.No.4, Special Issue 1, pp 35-40 | February, 2014 |
| 55. | Optimization of Web site based on Visualizing the Navigation Patterns of Users using Association Mining | S.P. Singh
B.K. Sharma | International Journal of Advanced Research in Computer Science and Software Engineering, Vol.No.4, Issue No.2 pp. 190-199 | February, 2014 |
| 56. | Influence of High Module Temperature on Opaque and Semitransparent Type Potovoltaic Modules : A Comparative Analysis | S.K. Rajput
R.C. Yadaw
R. Sharma
V. Chaturvedi | International Journal of Emerging Technology and Advanced Engineering 4 (ISSN:2250-2459), 89-92, 2014 | Febrary, 2014 |
| 57. | Influence of Increasing Solar Intensity on Opaque Photovoltaic (PV) Module Parameter : An Indoor Experimental Investigation | S.K. Rajput
et.al. | MIT International Journal of Electrical and Instrumentation Engineering 4 (ISSN: 2230-7648), 12-15 | January, 2014 |

- | | | | | |
|-----|--|--|--|--------------------|
| 58. | Comparative Study on Dyeing Behaviour of Crayon and Viscose Rayon Fibres | M.S. Parmar
Nidhi Sisodia
Noopur Sonee | International Journal of Engineering Research & Technology (IJERT), Vol.2, Issue 12, p 2321-2328 | December, 2013 |
| 59. | Effective Utilization of e-advertisements through Neural Networks | Shilpi Bansal
B.K. Sharma | International Conference on Reinventing Management Strategy: The Design for Future Organized by Institute of Management Studies, Ghaziabad | 30th November 2013 |
| 60. | An Investigation on Surface Morphology and Wear Loss of EP/GF Composite with/ Without adding Silica (SiO ₂) | R.C. Yadav
V. Chaturvedi
P.K. Yadav | NCENT 2013, IIMT Greater Noida | September, 2013 |
| 61. | Comparative Study of the 64-bit and Apple Families of Microprocessors | N.K. Sharma
K.P. Yadav
B.K. Sharma | International Journal of Innovative Technology and Exploring Engineering, Vol. 3, Issue No.2, pp 163-168 | July, 2013 |
| 62. | Effects of High Module Temperature on Electrical Efficiency of Opaque Type Photovoltaic (PV) Module with Emphasis on Temperature Coefficient of Efficiency | S.K. Rajput | International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering 2 (ISSN Online: 2278-8875) | 2013 |
| 63. | Cost of Internal Failure and Its Implications in a Garment Unit | Kushagra Prakash
Vivek Agarwal | Indian Textile Journal | June, 2013 |
| 64. | Removal of Drimarene Green (HE4BD) Dye from Textile Waste Water using Cynodon Dactylon as an Adsorbent | A.A. Ansari
et.al. | Journal of Ultra Chemistry | April, 2013 |
| 65. | Scope of Six Sigma Study in Automobile Industries to Control Pollution due to Heavy Metals and other Pollutants | A.A. Ansari
et.al. | Journal of Ultra Chemistry | May, 2013 |

- | | | | |
|--|---|--|-----------------|
| 66. Technical Textiles : The Future of Textile Industry | A. Basu
R.K. Gaur
M.S. Parmar | Textile times,
Vol. XII (2) | May-June, 2014 |
| 67. Role of Research and Development in Indian Textile and Clothing Industry | A. Basu | Textile Value Chain,
3 (2) | February, 2015 |
| 68. Low Pressure Air Plasma for Processing of Silk Textiles | A. Basu
S. Sangappa | A Chapter in "Plasma Technologies for Textiles and Apparels",
Edited by S.K. Nema and P.B. Jhela, Wood head publishing India Pvt. Ltd., New Delhi | May, 2015 |
| 69. Protective Textiles in India and Its Future | A. Basu
M.S. Parmar | NTC's Technical Textile Conclave, PHD Chamber of Commerce | March 10, 2015 |
| 70. Developing Garments from Waste | M.S. Parmar
Nidhi Sisodia
Maheshwar Singh | International Conference on Emerging Trends in Traditional and Technical Textiles, Jalandhar | April, 2014 |
| 71. Workwear for Oil and Gas Industries - Special reference to Oil and Gas Filling Attendants | M.S. Parmar
et.al. | 55 th Joint Technological Conference,
New Delhi | May, 2014 |
| 72. Study on Flame Retardant Properties of Poly (lactic acid) fibre Fabrics | M.S. Parmar
Maheshwar Singh
Rajiv Kumar Tiwari
Swami Saran | Indian Journal of Fibre & Textile Research, Vol.39 | September, 2014 |
| 73. Occupational Safety Workwear for Fuel Filling Station Attendants | M.S. Parmar
Noopar Sonee
Nidhi Sisodia
Shweta Saxena
Chitra Arora | Colourage | September, 2014 |
| 74. Developing Battlefield Uniform Cloth from various Blends of Poly amide for Indian Defense Personnel | M.S. Parmar
Maheshwar Singh
Nidhi Sisodia | International Conference on Technical Textiles and Non-wovens | November, 2014 |
| 75. Effect of Process Parameters on Thermal Protective Performance and Comfort Characteristics of Flame Retardant Treated Fabric | M.S. Parmar
Udayraj
A. Das
R. Alagirusamy
P. Talukdar | International Conference on Technical Textiles and Non-wovens | November, 2014 |
| 76. Development of Safety Workwear for Fuel Filling Station Personnel | M.S. Parmar
Noopar Sonee
Chitra Arora | Workshop on "Sizing, Fit & Design of Functional Clothing", IIT Delhi | November, 2014 |

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|-----|--|--|---|----------------|
| 77. | Exploring Applications of Bagasse Fibres in Textiles - "A Review" | M.S. Parmar | Colourage | November, 2014 |
| 78. | Nylex-blend of Excel and Nylon : Exploration of Kid's Wear | M.S. Parmar | International Conference on Fashion and Textiles, NIFT, Jodhpur | March, 2015 |
| 79. | Studies on Adsorption Behaviour of Heavy Metals on Mixture of Fly Ash and Sand for Removal of Heavy Metals from Textiles Effluents | A.A. Ansari
M.S. Ansari
A.H. Ansari
B.B. Bashir | Journal of Ultra Chemistry, Vol. 10 (1), 49-60 | 2014 |
| 80. | Removal of Drimarene Green (HE4 BD) Dye from Textile Waste Water using Cynodon Dactylon as an Adsorbent | A.A. Ansari
M.S. Ansari
A.H. Ansari | 55 th Joint Technological Conference, hosted by NITRA, Ghaziabad | May, 2014 |
| 81. | Human Resource Information System through Software Approach | B.K. Sharma | Internatinal Journal of Advanced Research in Engineering Technology & Science, Vol. No.1, Issue-1 | October, 2014 |
| 82. | Implementation of Neural Network in Cost Factor of E-advertisements | B.K. Sharma
Shilpi Bansal | International Journal of Applied Information System, Foundation of Computer Science, New York, USA, Vol. 7, No. 11, pp.15-17 | November, 2014 |
| 83. | Formulation of Hypothesis for various Ads-formats in E-Advertisements | B.K. Sharmal
Shilpi Bansal | 2 nd International Conference on Advanced Development in Engg. & Technology, Lord Krishna College of Engg., Ghaziabad, (U.P.) | February, 2015 |
| 84. | Cyber Security Issues in India | Krishan Dewan
Partha Basu
B.K. Sharma | 2 nd Internatinal Conference on Advanced Development in Engineering and Technology, Lord Krishna College of Engg., Ghaziabad, (U.P.) | February, 2015 |

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|--|---|--|-----------------------------|
| 85. Future of E-Commerce in India | Krishan Dewan
Partha Basu
B.K. Sharma | 2 nd International Conference on Advanced Development in Engg. & Technology, Lord Krishna College of Engg., Ghaziabad, (U.P.) | February, 2015 |
| 86. Bedding and Sportswear Fabrics for Changing Climatic Conditions - A study using Thermocool Fibre | Rajiv Kumar
Sanjeev Shukla | 55 th Joint Technological Conference, New Delhi | May, 2014 |
| 87. Hand Recognition Gesture | Keshav Jindal
Manoj Sharma | National Conference, Surajmal Institute, Delhi | March, 2015 |
| 88. Survey on Real-time Stream Processing Tools and Volume Reduction Techniques | Gaurav Parashar
B.K. Sharma | 1 st International Conference on Futuristic Trends in Computational Analysis and Knowledge Management (IEEE Explore Digital Library), Amity University, Greater Noida | February, 2015 |
| 89. Development of fabrics using various fibres blends to develop protective clothing for oil & gas industry workers | Nooper Sonee
Chitra Arora
M.S. Parmar | Engineering research & Technology, Vol.5, Issue 03, March 2016 | March, 2016 |
| 90. Need of Innovative work wear for electroplating workers | Nidhi Sisodia
Sugandha Sahni
Rita Kant
M.S. Parmar | National conference on fashion apparel & textile 2016, organised by Amity University | 4 th March, 2016 |
| 91. Prediction of preferred advertising formats in e-Advertisement by using Data mining techniques | Shilpi Bansal
B.K. Sharma | International Journal of Applied Information System, Foundation of Computer Science, New York, USA, ISSN : 2249 - 0868, Vol.10, No.6, pp. 27-32 | March, 2016 |
| 92. Qualifications pack - Departmental Investigators (Bleaching) | M.S. Parmar | Workshop on Occupational mapping, Functional analysis cum Validation of QPs for "QC & Testing Sector" | February, 2016 |

- | | | | |
|--|---|---|----------------|
| 93. Accomplishment of Neural networks in e-Advertisement for various industries | Shilpi Bansal
B.K. Sharma | International journal of Innovative research in computer and communication engineering, ISSN:2320-9801, Vol. No.4, Issue-2, PP. 1228-1232 | February, 2016 |
| 94. Removal of colour from aqueous solutions by using zero valent iron nanoparticles | A.A. Ansari,et.al. | IOSR Journal of Environmental Science Toxicology and Food Technology, Vol. 10, Issue-1 Ver.II (Jan.2016) PP 04-14 | January, 2016 |
| 95. Protective Textiles (FR Textiles) - Test methods | M.S. Parmar | Workshop on "Safety and Survival Equipment" held at 16 BRD, Air Force Palam, New Delhi | 1st Dec., 2015 |
| 96. Milkweed blended fabrics and their thermal insulation and UV protection properties | M.S. Parmar
Mansi Bahl
J.V. Rao | Indian Journal of fibre & Textile Reseach, Vol. 40 | Dec., 2015 |
| 97. Milkweed blended fabrics and their thermal insulation and UV protection, properties | M.S. Parmar
Mansi Bahl
J.V. Rao | Indian Journal of Fibre & Textile Research, Vol.40 | Dec., 2015 |
| 98. Development of Stretchable Cotton Fabric : An Alternative for Texturised Nylon Fabric | M.S. Parmar
U.C. Sharma
Rajeev Kumar
Nidhi Sisodia
Priyanka
Meena Batham | Joint Technological Conference, SITRA Coimbatore | Dec. 2015 |
| 99. Development of Fabrics using various Fibre Blends for Develop Protective Clothing for Oil & Gas industry workers | M.S. Parmar
Nooper Sonia
Nidhi Sisodia
Maheshwar Singh
Chitra Arora | Joint Technological Conference, SITRA Coimbatore | Dec. 2015 |
| 100. Self Sticked Products from Loom | A.K. Pandey | Joint Technological Conference, SITRA Coimbatore | Dec. 2015 |
| 101. Compressed Air Monitoring System : A Tool to Minimise Energy Wastage through Real Time Monitoring | Vikas Sharma
Paurush Godhar
Saurabh Rajput | Joint Technological onference, SITRA Coimbatore | Dec. 2015 |
| 102. A.C. Motors burnout in Textile Industry - Causes & Impact on Motor Perfor- | Paurush Godhar
Saurabh Rajput | Joint Technological Conference, SITRA Coimbatore | Dec. 2015 |

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|---|--|---|--|
| 103. Productivity improvement & employment creation through skill development | A. Basu | CII-Texcon 2015, New Delhi | 15th-16th October, 2015 |
| 104. Standardization of flame retardants in technical textiles | M.S. Parmar | Workshop organized by CII and BIS at India Habitat Centre, New Delhi | 1 st Sept., 2015 |
| 105. An apparatus for quantification of light and temperature cutting ability of curtains | M.S. Parmar
Nidhi Sisodia
Maheshwar Singh | Indian Journal of Fibre & Textile Research, Vol. 40 | Sept., 2015 |
| 106. Emerging trends of android operating system in mobile technology | Avnish Sharma
B.K. Sharma | SRM International Journal of Engg. & Science, ISSN:2322, Vol.3, No.1, pp 27-31 | Sept., 2015 |
| 107. ISDS-NITRA's experience and way forward | A. Basu | National workshop on skill development, Ministry of Textiles, Govt. of India, India Habitat Centre, New Delhi | 27 th Aug., 2015 |
| 108. Proposed architecture for enhancing the efficiency of security systems by using systematic combination of different recognition systems. | Keshav Jindal | International Journal of Computer Applications (0975-8887) Vol.123, No.10, Page No. 1-6 | August, 2015 |
| 109. Nyco uniform and FR tests | M.S. Parmar | OCF, Kanpur | 23 rd & 24 th July, 2015 |
| 110. Standardization of Protective Textiles and NITRA's contribution | A. Basu | Seminar on Standardization of Technical Textiles - Gateway to Make of India, BIS Auditorium, New Delhi | 20 th July, 2015 |
| 111. A Naive Bayes approach for Converging Learning Objects with Open Educational Resources | A. Sai Sabitha
Deepti Mehrotra
B.K. Sharma | Springer Science, Education & Information Technologies, The official Journal of IFIP Technical Committee on Education, New York, ISSN 1360-2357 | June, 2015 |
| 112. Various types of Protective Textiles | M.S. Parmar | Workshop organized by Indian Army, New Delhi | 20 th May, 2015 |

113. Low Pressure Air Plasma for Processing of Silk Textiles	A. Basu S. Sangappa	A Chapter in "Plasma Technologies for Textiles & Apparels", Edited by S.K. Nema and P.B. Jhela, Woodhead publishing India Pvt.Ltd., New Delhi	May, 2015
114. Future of e-commerce in India	K. Dewan Partha Basu B.K. Sharma	International Journal of Engineering Research and Management Technology, ISSN:2348-4039, Vol.2, Issue-3, pp. 45-50	May, 2015
115. Cyber Security Issues in India	K.K. Dewan B.K. Sharma	International Journal of Engineering Research and Management Technology, ISSN:2348-4039, Vol.2, Issue-3, pp. 45-50	May, 2015
116. Advances in Understanding the Properties of Silk	A. Basu et.al.	A Chapter in Advanced in Silk Science & Technology, Edited by A. Basu, Woodhead publishing, UK	May, 2015
117. Advances in Spinning, Weaving & Knitting of Silk	A. Basu	A Chapter in Advances in Silk Science & Technology, Edited by A. Basu, Woodhead publishing, UK	May, 2015
118. Advanced Testing of Silk Fibres, Yarns & Fabrics	A. Basu P. Bhat	A Chapter in Advances in Silk Science & Technology, Edited by A. Basu, Woodhead publishing, UK	May, 2015
119. Manufacturing of Blended Yarn from Waste Biomass of Corn	M.S. Parmar Sanjeev Shukla Maheshwar Singh Nidhi Archana	Colourage	April, 2015
120. Formulation of Hypothesis for various Ad-Formats in e-advertisements	Shilpi Bansal B.K. Sharma	International Journal of Emerging Technology and Advanced Engineering, ISSN : 2250-2459, Vol. 5, Issue-5, pp.103-110	April, 2015

Annex-6

YEAR-WISE ESTIMATED EXPENSES

A PROCUREMENT

(Rs. in lacs)

Sl. No.	Item	Year-1	Year-2	Year-3	Total
A	Teaching Aids and IT Infrastruture	65.75	75.2	23.4	164.35
B	Laboratory Equipment	161.5	57	150	368.5
C	Library	17	5	5	27
D	Furniture and Fixtures	10	10	5	25
E	Manitenance Expenses for classrooms, workshops, labs, hostel etc	5	10	15	30
	Total	259.25	157.2	198.4	614.85

B ACADEMIC EXCELLENCE

S.No	Activity Head	Year-1	Year-2	Year-3	Total
1	Qualification Upgradation	20	20	20	60
2	Short term courses	10	10	10	30
3	Attending Workshops, seminars and conferences (In India)	7.5	7.5	7.5	22.5
4	Attending Workshops, seminars and conferences (Abroad)	15	15	15	45
5	Organising Workshops, seminars and conferences (In India)	20	20	20	60
6	Hiring Eminent Experts and visiting faculties from reputed institutions	20	20	20	60
7	Technical Staff Training	5	5	5	15
8	Administrative Staff Training	3	3	3	9
	Total	100.5	100.5	100.5	301.5

C OPERATING COST

S.No	Head	Year 1	Year 2	Year 3	Total
1	AMC for Equipments	10	10	10	30
2	50 MBPS Internet Charges	5	5	5	15
3	E-journals	10	10	10	30
4	Magazines and Journals	10	10	10	30
	Total	35	35	35	105

GRAND TOTAL	394.75	292.7	333.9	1021.35
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ESTIMATED EXPENSES FOR PROCUREMENT

Annex-7

Sl. No.	Item	Quantity	Cost/Unit (Rs. in lacs)	Estimated Total Cost (Rs in lacs.)
A	Teaching Aids and IT Infrastructure			
1	Desktops	100	0.55	55.00
2	Laptop	15	0.60	9.00
3	LCD Projector	10	0.50	5.00
4	UPS 20 KVA	1	2.00	2.00
5	Server	2	0.85	1.70
6	Color Laser Printer	1	0.80	0.80
7	Lan Duplex Laser Printer	5	0.40	2.00
8	Photo Copier	1	1.20	1.20
9	Top Feed Scanner	3	0.30	0.90
10	Networking including parts	1	2.00	2.00
11	Smart Board	12	1.00	12.00
12	Adobe Graphic Suit Software for 30 users	30	1.15	34.50
13	MAT Lab Software for 30 Users	20	0.30	6.00
14	Oracle for 30 Users	1	6.25	6.25
15	Other software Utilities (Bandwidth Management / Analytical Software's etc.)	110		5.00
16	IP EPBX System	1	1.00	1.00
17	Cutting and Sewing Softwares	20	1.00	20.00
	Sub Total (A)			164.35
B	Laboratory Equipment			
1	HVI	1	65.00	65.00
2	Classimate	1	35.00	35.00
3	Air Permaeability Tester	1	14.00	14.00
4	UTM (load cells and Grips)		6.00	6.00
5	Vibroskop	1	40.00	40.00
6	Vibrodyne	1	40.00	40.00
7	Electronic Balances	5	2.00	10.00
8	Light Fastness Tester	1	80.00	80.00
9	Laundrometer	1	5.00	5.00
10	Fibrograph	1	5.00	5.00
11	Fibre Fineness Tester	1	4.00	4.00
13	Cotton Colorimeter	1	5.00	5.00
14	Yarn Evenness Tester	1	35.00	35.00
15	Single Yarn Strength Tester	1	15.00	15.00
16	Microscope	1	2.50	2.50
17	Oven with Template	1	1.00	1.00
18	Electronic Moisture Meter	1	1.00	1.00

19	Fabric Flex Abrasion Tester	1	4.00	4.00
20	Conditioning Chamber	1	1.00	1.00
	Sub Total (B)			368.50
Sl. No.	Item	Quantity	Cost/Unit (Rs. in lacs)	Estimated Total Cost (Rs in lacs.)
C	Library			
1	Library Automation Software			12.00
2	Text books and E-books			15
	Sub Total (C)			27.00
D	Furniture and Fixtures			25.00
E	Manitenance Expenses for classrooms, workshops, labs, hostel etc			30.00
	Grand Total (A+B+C+D+E)			614.85