Appendix – II

EFFECT OF PROCESS PARAMETERS
ON RING YARN QUALITY

A Dissertation Submitted in Partial Fulfillment of the Requirements for the Award of Bachelor of Technology degree in Textile Technology

(Maharshi Dayanand University, Rohtak)

TIT
Since 1943

2017-2021

GUIDED BY –

Dr. Ashvani Goyal

(Assistant Professor)

(Textile Department)

IQAC COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI ★

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

SUBMITTED BY-

Amit Insan (17Tt005)

Ankit Kumar (17Tt006)

Anuj Kumar (17Tt007)

Arun Kumar (17Tt008)

DEPARTMENT OF TEXTILE TECHNOLOGY
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI (127021)
2021
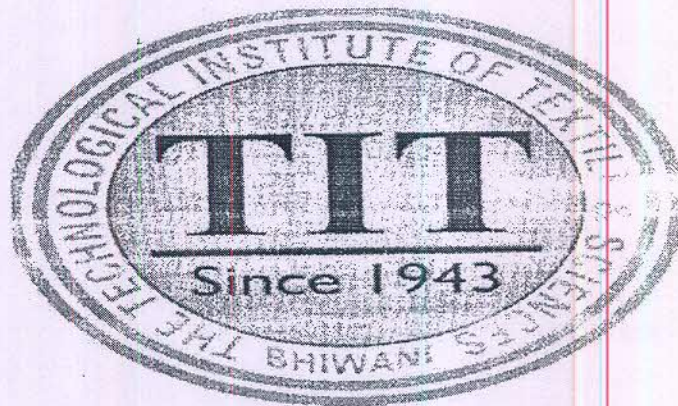
A PROJECT REPORT ON

Investigations on the porosity of woven fabric for polyester blended fabrics specially for face masks

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

In

TEXTILE TECHNOLOGY

THE TECHNOLOGICAL INSTITUTE OF TEXTILES AND SCIENCES

Affiliated to Maharshi Dayanand University, Rohtak

Project Guide:-
Dr. Ajit Patnaik
Asst. Professor
(Textile Technology)

Scholars:-
17TT014 Chaman
17TT015 Gaurav
17TT016 Harshit
17TT017 Harshit Sharma

1

DESIGN AND FABRICATION OF A MANUALLY OPERATED MACHINE FOR FIBRE EXTRACTION FROM WASTE WOVEN FABRICS

A

DISSERATION SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF BACHELOR DEGREE IN TEXTILE TECHNOLOGY

(M.D. UNIVERSITY, ROHTAK)

2021

Project Guide

Mr. Saumen Bhattacharya
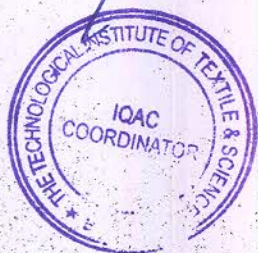
(Assistant Professor)

Scholar

Lokesh Soni (2079724)

Lokesh(2079725)

Madhuresh Kadmawala(2079726)

Manav(2079727)

The Technological Institute of Textile & Sciences

Bhiwani-127021

"COMPARISION BETWEEN BLEACHING WITH HYDROGEN PEROXIDE & SODIUM PERBORATE ON COTTON"

A PROJECT REPORT

Submitted in Partial Fulfillment of the Requirement for the Degree

of Bachelor's in technology in Textile Chemistry

Maharishi Dayanand University Rohtak

GUIDE

DR. AMIT MADHU
Assistant Professor
Deptt. Of Textile Chemistry
T.I.T&S, Bhiwani

SCHOLARS

GURPARTAP SINGH (2079572)
VIVEK SHUKLA (2079588)
VAIBHAV RAJ RAMANE (2079583)
ANKIT PANDEY (2079563)
ARYAN YADAV (2079567)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

DEPARTMENT OF TEXTILE CHEMISTRY

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

127021

IQAC COORDINATOR

CERTIFICATE

This is to certify that the project entitled **Comparison between bleaching with hydrogen peroxide & sodium perborate** which is submitted here with in the partial fulfillment of requirement for the award of the Degree of Textile in **Textile Chemistry** from TIT&S Bhiwani. This is the result of the original work completed by Mr. Gurpartap Singh, Mr. Vivek Shukla, Mr. Vaibhav Raj Ramane, Mr. Ankit Pandey and Mr. Aryan Yadav under my supervision and guidance and to the best of my knowledge and belief the work embodied in this project has not formed earlier the basis for the award of any degree or similar title of this or any other University or examining body.
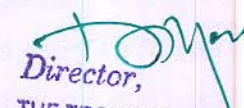
DR. AMIT MADHU

Assistant Professor

Deptt. Of Textile Chemistry

T.I.T&S, Bhiwani

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
★ BHIWANI ★

A PROJECT REPORT

Submitted In Partial Fulfillment Of The Requirements For The Award Of The Degree Of Bachelor Of Technology In The Textile Chemistry (Maharishi Dayanand University, Rohtak)

GUIDE

Mrs. Neha Poonia

Assistant Professor

Deptt. Of Textile Chemistry

T.I.T&S, Bhiwani

SCHOLARS:-

Ankit Singh - 2079564

Aman Kumar – 207956

Dhawan Singh - 2079571

Harsh Kumar - 2079573

Satyanand Singh - 207958

DEPARTMENT OF TEXTILE CHEMISTRY

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

(127021)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR

CERTIFICATE

It is certified that the work presented in this report entitled " Anti-crease finishing of cotton fabrics based on crosslinking of cellulose with acryloyl malic acid & crease-resistant functionalization of cellulosic material " being submitted by Mr. Ankit Singh, Mr. Aman Kumar , Mr. Satyanand Singh , Mr. Dhawan Singh , Mr. Harsh Kumar to the Maharishi Dayanand University, Rohtak in the partial fulfilment for the award of Bachelor of technology in Textile Chemistry and has been carried out under my precise guidance. The results reported in this project had not been submitted as per the best of my knowledge, in part or full, to any university for the award of any degree or diploma.

Mrs.Neha Poonia
Project Guide
Department of Textile Chemistry
TIT&S Bhiwani

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Comparative Study of printing with annato dye using different mordants

A
Dissertation Submitted in Partial
Fulfillmentof
The Requirement for The Award of
**BACHELOR OF TECHNOLOGY
IN TEXTILES**
(TEXTILE CHEMISTRY)
MAHARSHI DAYANAND UNIVERSITY
(Rohtak - 124001, Haryana, India)

(PROJECT GUIDE)
Mr. S.K Malik

Head of Department

**Department of Textile
Chemistry (TIT&S)**

(SCHOLARS)
Kartik (2079576)
Rajat (2079582)
Banti (2079568)
Deepak (2079570)
Naresh (2079577)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

The Technological Institute of Textile and Sciences

Bhiwani-127021 (2021)

1

CERTIFICATE

It is certified that the *thesis* presented in this dissertation entitled "Comparative analysis of printing with annato dye using different mordants" being submitted by Kartik, Rajat, Banti, Deepak and Naresh to The Technological Institute Of Textile & Sciences (Maharshi Dayanand University),Bhiwani for the award of degree of Bachelor of Textile Chemistry has been *written* under the guidance of Asst. Prof. Mr. S.K. Malik. The results reported in this dissertation have not been submitted in any part or full, to any university for the award of any degree or diploma.

Asst. Prof. Mr. S.K. Malik

Department of Textile Chemistry

TIT & S, Bhiwani

2

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The council of research and training, Ducat Noida certifies that

AANCHAL MISHRA

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JAVA TECHNOLOGY

for having successfully completed Training program.

The program was conducted during the period

18/06/2020 to 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

IQAC COORDINATOR

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI *

Director,
TECHNOLOGICAL INSTITUTE
SCIENCES, BHIWANI

Diréctor

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CHIRAG JAIN

has been awarded a certificate of proficiency in

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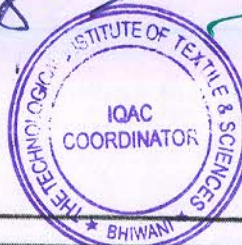*for having successfully completed Training program.*

The program was conducted during the period

18/06/2020 *to* 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

Director,

Director

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The program was conducted during the period

18/06/2020 ᵗᵒ 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

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IQAC COORDINATOR

Director,
THE TECHNOLOGICAL INSTITUTE
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18/06/2020 *to* 18/07/2020

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI *

Director

Training Certificate

Certificate of Completion

This is to certify that **Aaryan** successfully completed 58.5 total hours of *Mastering Data Structures & Algorithms using C and C++* online course on May 12, 2021

Abdul Bari
Abdul Bari, Instructor

&

∩ Udemy

Certificate no UC-31560624-24d0-4406-b659-5767b88ce597
Certificate url ude.my/UC-31560624-24d0-4406-b659-5767b88ce597
Version 5

#BeAble

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
★ BHIWANI ★

Date : June 1, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Ansh Agrawal a student of **The Technological Institute Of Textile & Sciences, Bhiwani** was interned as Android App Developer with us from 1 June 2020 to 30 September 2020. During this period of internship we found him dedicated and hardworking intern with good knowledge of work.

We wish all the best for his future endeavors.

CYBEPRO

Mukesh Doriwal

Co-Founder

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Address: 853/31 Laxman Vihar, Phase-1, Gurugram (122001)
Contact: +91-9211656329
info@cybepro.in www.cybepro.in

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JAVA

for having successfully completed Training program.

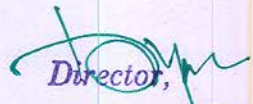The program was conducted during the period

30/05/2021 to 01/07/2021

Given under the seal of Ducat Noida

Program Co-ordinator

Director

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
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has been awarded a certificate of proficiency in

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Program Co-ordinator

Director

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI

The council of research and training,
Ducat Gurgaon certifies that

RAGHU PRATAP SINGH

has been awarded a certificate of proficiency in
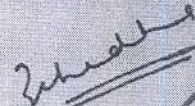
PYTHON

for having successfully completed the program with

'A' Grade.

The program was conducted during the period

11/05/2019 to 24/06/2019

given under the seal of Ducat Gurgaon.

Program Co-ordinator

Director

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI ★

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

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AJAY SINGH

has been awarded a certificate of proficiency in

ADVANCE JAVA TECHNOLOGY

for having successfully completed Training program.
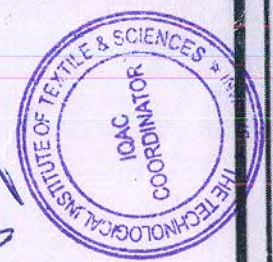
The program was conducted during the period

18/06/2020 to 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC COORDINATOR

Program Co-ordinator

Director

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JAVA TECHNOLOGY

for having successfully completed Training program.

The program was conducted during the period

18/06/2020 *to* 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

Director

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

A TRAINING REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF
THE DEGREE OF

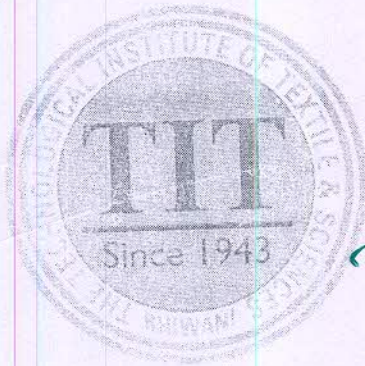## BACHELOR OF TECHNOLOGY

(Computer Science Engineering)
SUBMITTED TO

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Submitted by:-
CHAKSHU SHARMA

Exam roll no. '2063948'

CSE

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND
SCIENCE, BHIWANI

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Chakshu Sharma
2063948

◢◣ Gmail

Letter of Intent I Absolut Info Systems Pvt Ltd
3 messages

Garima Arora <garora@aisplstore.com>   Mon, Jun 14, 2021 a
To: "sharmachakshu22@gmail.com" <sharmachakshu22@gmail.com>
Cc: Madhu Chaudhary <madhu@careerthon.com>, Prashant Khare <prashant@careerthon.com>

Dear Chakshu,

Greetings from Absolut Info Systems Pvt Ltd!

On behalf of Absolut Info Systems Pvt Ltd, firmly known as "AISPL" I am pleased to extend to you this offer of temporary employment **as an Intern in our IT Support team.** If you accept this offer, you will begin your internship with the Compan Tuesday, 15th of June 2021 and reporting time is 10am to 7pm.

You will be paid per month including, all applicable taxes and withholdings, **payable Rs 8,000/- for 1st 2 month, 10,000/- next 4 month.** As an intern you will receive "temporary employment" status. As a temporary employee, you will not rece of the employee benefits that regular Company employees receive, including, but not limited to, health insurance, vacati sick pay, or paid holidays.

Your internship is expected to end tentatively by last working day of December 2021.

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI *

Chakshu Sharma
2063948

TechHaus Innovative private limited

Plot no.1134 & 1135,second floor, meerut road

Uttar Pradesh,201003,India

A TRAINING REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Computer Engineering)

SUBMITTED TO

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name of Student		University Roll No.
Ankit sharma	03-04-2021 to 15-05-2021	2063945
	(Duration of Training period)	

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES,

BHIWANI (HARYANA)

TRAINING CERTIFICATE
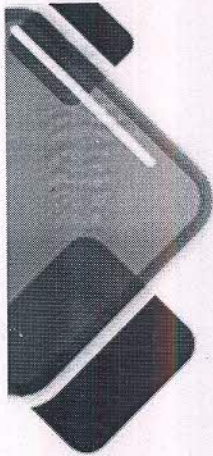
TechHaus Innovative Private Limited

Your Idea, Our Creativity

<u>TO WHOM IT MAY CONCERN</u>

This is to certify that **Ankit sharma** a student of **B.Tech,The technological institute of textile and sciences, Bhiwani, Harwana** has successfully completed six week training (From 3st April, 2021 to 15th may 2021) long internship programme in **Python**. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

For,TechHaus Innovative Pvt. Ltd.

Himanshu Gupta

HR Manager

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

+91 989632121

Plot No. 1134 & 1135, Second Floor, Meerut Road, Opp. Delhi Public School, Uttar Pradesh 201003

info@techhausinnovative.com

www.techhausinnovative.com

VVDN TECHNOLOGIES PVT. LTD.

B-22, Infocity-I, Sector-34, Gurugram,

Haryana-122001

A TRAINING REPORT

ON

SHOPPING APPLICATION

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD
OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Computer Engineering)

SUBMITTED TO

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name of Student
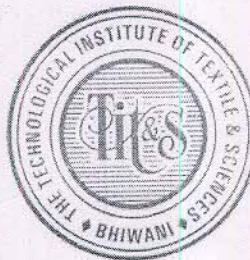
Anjali

University Roll No.

2063921

04-01-21 to 4-07-21

(Duration of Training Period)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

To,
The Technological Institute of Textile and Sciences College,
Bhiwani,

Dated: 8ᵗʰ July 2021

Subject: Joining Confirmation Letter for mentioned students

Dear Sir/Madam,

This is to inform you that below mentioned students are working with VVDN Technologies Pvt Ltd Address- Global Innovation Park, Plot No- CP 7, IMT, Sector 8, Manesar, Haryana.

Employee Name	Emp ID	Date of Joining	Designation
Simran	VVDN/6491	4th Jan 2021 to till date	DevOps Engineer
Naman Jain	VVDN/6497	4th Jan 2021 to till date	DevOps Engineer
Anjali	VVDN/6490	4th Jan 2021 to till date	IOS Developer
Mahak	VVDN/6788	18th Jan 2021 to till date	Python Developer
Mukul Parmar	VVDN/6790	18th Jan 2021 to till date	Java Developer

Authorised Signatory

VVDN Technologies Pvt. Ltd.

Divya Singhal
Sr Executive (HR)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

PROJECT REPORT

A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN FASHION & APPAREL ENGINEERING
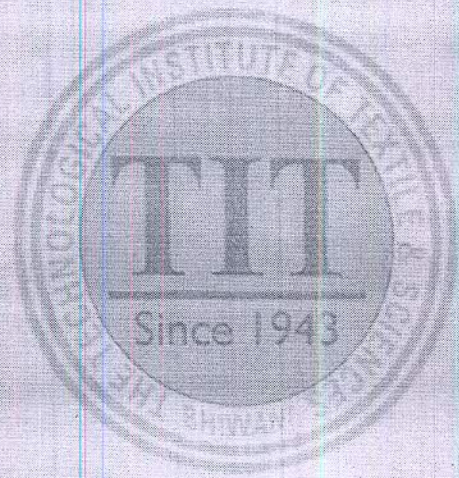
(M.D.U. UNIVERSITY, ROHTAK)

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR OF TECHNOLOGY (FASHION AND APPAREL ENGINEERING)

SUBMITTED TO	SUBMITTED BY
DR.YAMINI JHANJI (ASST. PROFESSOR)	ASHISH KR PREMI – 17FA101 LAKSHAY PASSI - 17FA107 MOHD. ATIF- 17FA108 SHUBHAM TYAGI – 17FA011

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI *

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

A Dissertation Submitted In Partial Fulfillment of Requirement of Award of Bachelors Degree in Fashion and Apparel Engineering

M.D.U UNIVERSITY, ROHTAK

2017-2021

Guided by:

Dr.Amandeep kaur

(H.O.D)

Submitted by:

Harsh Verma(2073990)

Neha sharma(2073981)

Manisha (2073979)

Prem (2073995)

Shubham(2073997)

Tarun Nadar(2074000)

Department Of Fashion and Apparel Engineering

i

FUSION OF CONTEMPORARY APPARELS WITH THE ESSENCE OF TRADITIONAL TEXTILES
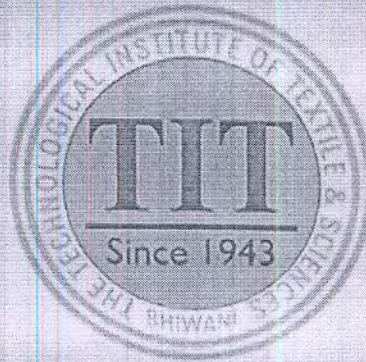
MAHARSHI DYANAND UNIVERSITY ROHTAK
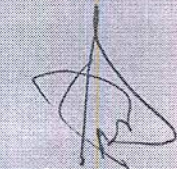
SUBMITTED TO: -

Dr. Amandeep Kaur

(HOD)

SUBMITTED BY: -

Swati (17FA113)

Babita Saini (17FA102)

Kumar Shasank (17FA006)

Harsh Sethi (17FA105)

DEPARTMENT OF FASHION AND APPAREL ENGINEERING

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES

BHIWANI 127021

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

1

Portfolio

A Project REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD
OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Computer Engineering or Information Technology)

SUBMITTED TO

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name of Student: University Roll No.
KESHAV   2054706

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI, HARYANA

1
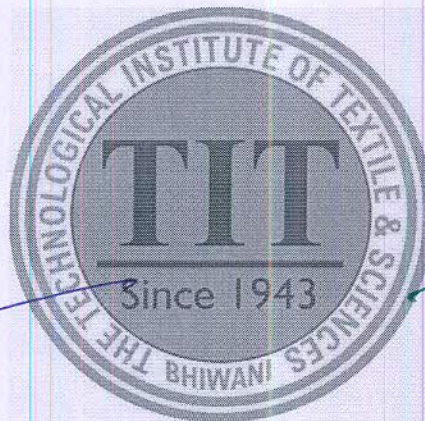
CERTIFICATE

I hereby certify that I am pursuing the **Bachelor of Technology in Information technology** from **The Technological Institute of Textile & Sciences.** I done this project from **Coding Ninjas, New Delhi.**

The matter presented in this Report has not been submitted by me for the award of any   other degree elsewhere.

Keshav

Signature of Student

KESHAV (2054706)

Signatures

Examined by: (Concerned Faculty)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

HOD

Department of Computer Engineering & Information Technology

3

GAME USING JAVA WITH DATA STRUCTURES

(JAVA)

A PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF
THE DEGREE OF

BACHELOR OF TECHNOLOGY
(Information Technology)

SUBMITTED BY
Name of Student : GOURAV
College Id:18IT011
University Reg no:1810070080
University Roll No: 2054705

SUBMITTED To
Ms. SATVIKA
(B.tech CSE/IT Department)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Certificate

This is to certify that Project Report entitled as "JAVA WITH DATA STRUCTURE" submitted by Gourav (University Roll No. – 2054705) in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in department of Information Technology Engineering of The Technological Institute Of Textile And Science is a record of candidates own work carried out by him. The matter embodied in this report is original and not has been submitted for the award of any other college.

Supervisor   **Date: 18-July-21**

Dr. Mukesh Sharma

(H.O.D. CE& IT Department)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
★ BHIWANI ★

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI HARYANA

A TRAINING REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY
Information Technology
(2018-2022)

SUBMITTED TO
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name of Student
Bhuwan

University Roll No.
2054704

Director,
THE TECHNOLOGICAL INSTITUTE
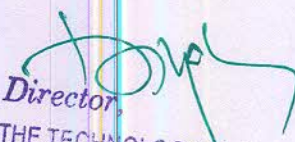OF TEXTILE & SCIENCES, BHIWANI

CERTIFICATE

I hereby certify that I have completed the Six Month Training in partial fulfillment of the requirements for the award of Bachelor **of Technology in Computer Engineering.** I did my training in Foxx Glove Media Sector-38 Gurugram,Haryana .

The matter presented in this Report has not been submitted by me for the award of any other degree elsewhere.

Signature of Student

Bhuwan

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IT 6th sem
[PROJ-CSE-3229]

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Program Co-ordinator

Director

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Director

IT – 7th sem
[IT – 415 – f]

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Director

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The program was conducted during the period

18/06/2020 to **18/07/2020**

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

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for having successfully completed Training program.

The program was conducted during the period

18/06/2020 *to* 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

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VICKY GUPTA

has been awarded a certificate of proficiency in

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for having successfully completed Training program.

The program was conducted during the period

18/06/2020 *to* **18/07/2020**

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

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Director

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VIDUSHI KAUSHUK

has been awarded a certificate of proficiency in

ADVANCE JAVA TECHNOLOGY

for having successfully completed Training program.

The program was conducted during the period

18/06/2020 to 18/07/2020

at The Technological Institute of Textile & Sciences, Bhiwani, given under the seal of Ducat Noida.

Program Co-ordinator

Director

KV Computer Home Private Limited (KVCH), NOIDA

A TRAINING REPORT
On
ONLINE EXCHANGE STORE

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY
(Information Technology)

SUBMITTED TO
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name:
Aniket Pandey

University Roll No.
2074376

07-01-2021 to 21-06-2021

THE TECHNOLOGICAL INSTITUTE
OF
TEXTILE & SCIENCES, BHIWANI

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

i

CERTIFICATE

ORACLE WORKFORCE DEVELOPMENT

kvch

Training Completion Certificate

This is to certify that Mr./Ms. **ANIKET PANDEY**

has successfully completed Industrial Skills based training Programme

Project Name	**ONLINE EXCHANGE STORE**
Technologies Used	**PYTHON**
Registration No.	**181919**
Training Date	**7-JAN-2021** to **21-JUNE-2021**
Training Location	**NOIDA**

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Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC COORDINATOR

iii

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

(Established by late industrialist Dr G.D. Birla in 1943)

A TRAINING REPORT
On
IMAGE PROCESSING

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY
(Information Technology)

SUBMITTED TO
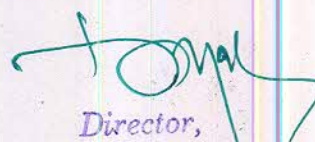### MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name:

DIKSHA

University Roll No.
2074371

14-01-21 to 30-06-21

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI, HARYANA

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

CERTIFICATE BY STUDENT

I hereby certify that I have completed the Six months training in partial fulfilment of the requirements for the award of **Bachelor of Technology in Information Technology.** I did my training in THE TECHNOLOGY INSITITUE OF TEXTILE &SCIENCES, BHIWANI from 14-01-21 to 30-06-21.

The matter presented in this Report has not been submitted by me for the award of any other degree elsewhere.

DIKSHA(2074371)

Examined by:

DR. MONIKA SHARMA

Asst. Professor

(Department of Information Technology)

TIT&S BHIWANI

DR. MUKESH KUMAR

(Associate Prof. HOD Department of CE &IT)

TIT&S BHIWANI

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

(Established by late industrialist Dr G.D. Birla in 1943)

A TRAINING REPORT
On
IMAGE PROCESSING

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY
(Information Technology)

SUBMITTED TO
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SUBMITTED BY

Name: University Roll No.
GAURAV   2074377

14-01-21 to 30-06-21

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES,
BHIWANI, HARYANA

CERTIFICATE

DUCAT

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has been awarded a certificate of proficiency in

PYTHON

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The program was conducted during the period

14/01/2021   *to*   30/06/2021

Given under the seal of Ducat Noida

Program Co-ordinator   Director

IQAC COORDINATOR
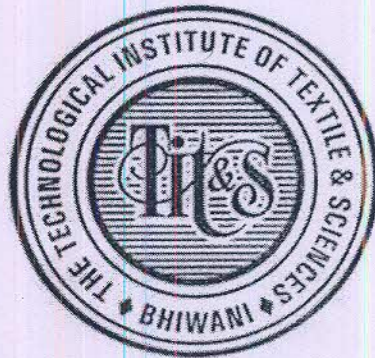THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI

PROJECT TRAINING REPORT
AT
www.sololearn.com(C++)

SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIRMENTS
FOR THE AWARD OF THE DEGREE

OF

BACHELOR OF TECHNOLOGY
IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted By:

Manjeet

Id. 18EC012

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES
BHIWANI (HARYANA)

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COORDINATOR

Director,
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COURSE CERTIFICATE

This is to certify that

MANJEET

has successfully completed the course by demonstrating
theoretical and practical understanding of

C++

SOLOLEARN

Certificate 20550659-1051
Issued 17 December, 2020

Yeva Hyusyan
Chief Executive Officer

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI ★

WORKSHOP BASED TRAINING REPORT

ON

LED Lighting

Submitted in the fulfillment of 4th semester internship training for the award of grades in

BACHELOR OF TECHNOLOGY

(2018-2022)

Submitted by: Supervisor:

TANMAY SHARMA   **MR. NARENDRA KUMAR**

18EC021   (Head of the company)

TIT&S, BHIWANI   APARAJEET ELECTRICALS
PVT.LTD   (NOIDA)
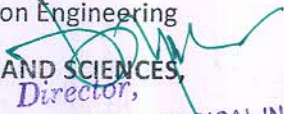
Submitted to:

Department of Electronics and Communication Engineering

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES,

Bhiwani-127021

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Nuovolux
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APARAJEET ELECTRICALS

(An ISO 9001:2015 Certified Company)

Date. 01/12/2020

CERTIFICATE OF COMPLETION

This is to certify that Mr. Tanmay Sharma, student of The Technological institute of Textile and Sciences, Bhiwani undergoing B.Tech in Electronics and Communication engineering has successfully completed the internship training programme titled "LED" at APARAJEET ELCTRICALS, Noida for a period of 6 weeks from 5th October 2020 to 17th November 2020.During this period of his internship Programme with us he was found punctual, inquisitive and hardworking.

We wish him every success in life.

Mr. **Narendra Kumar**

Head of the company

Auth. Signature

An Industrial Training Report

On

"Arduino training organised by IIT Bombay"

In partial fulfillment of the degree of **Bachelor of Technology**

at-

The Technological Institute of Textile and Sciences Bhiwani Haryana (127021)

SUBMITTED TO:

Mr. KAMAL SARDANA
(H.O.D ECE Department)

SUBMITTEDBY:

SURAJ KUMAR PRASAD
(18EC021)

Director,
THE TECHNOLOGICAL INSTITUTE
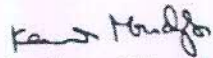OF TEXTILE & SCIENCES, BHIWANI

Certification

Certificate of Participation

This is to certify that **SURAJ KUMAR PRASAD** participated in the **Arduino** training organized at **The Technological Institute of Textile & Sciences** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Arduino** were covered in the training.

September 30th 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

IQAC
COORDINATOR

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
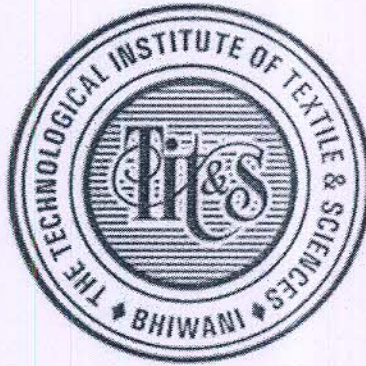
BHIWANI

NAME- TUSHAR AGGARWAL

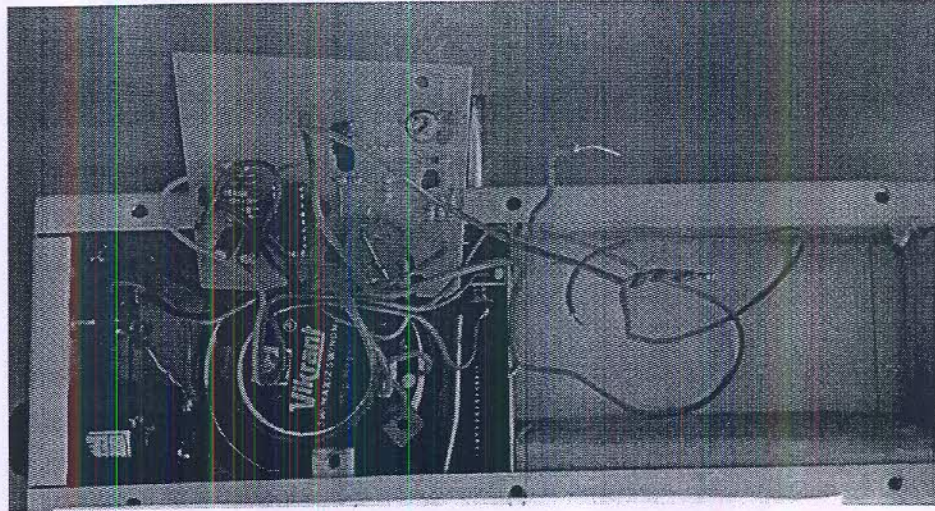CLASS- B.TECH, 6th SEM

ROLL NO-2051609

BRANCH- ECE

SIGNATURE- *Tushar*

MELODY DOOR BELL USING UM3481

INTRODUCTION:

This **Melody bell circuit** is based on a specialized instrument melody generator , implemented by CMOS technology.

The heart of this circuit is the **UM3481 IC** which can be powered by a 1.5 volts battery and can be used for electronic doorbell , toys , melody clock , music box ,etc .

The UM3481 IC is designed to play the melody according to the previously programmed information and is capable of generating 16 songs with 3 instrument effects : piano, organ and mandolin.

UM3481 device has a pre-amplifier which provides a simple interface to the driver circuit.

Other features of the UM3481 dorbell circuit are : 8 beats selectable , low standby current , 3 timbres : piano, organ, and mandolin , up to 16 songs , 5 tempos available through mask setting ,14 tones selectable

The IC accepts a input voltage up to 5 volts but typically work powered by 1.5 volts . The speaker used in this door bell circuit project must have an 8 ohms impedance .

The transistor used can be replaced with similar types if you can not find 2sc9013, 2sc9012 type.

COMPONENTS REQUIRED:

1. UM3481 IC
2. RESISTER VALUES- 100 k ohm, 100k ohm, 330 k ohm.
3. Capacitors of value- 4.7 micro F, 0.1microF, 0.02microF, 100microF.
4. Transitors- 2SC9013, 2SC9012
5. Speakers- 3hm impedence
6. +5v voltage source

Circuit Diagram:
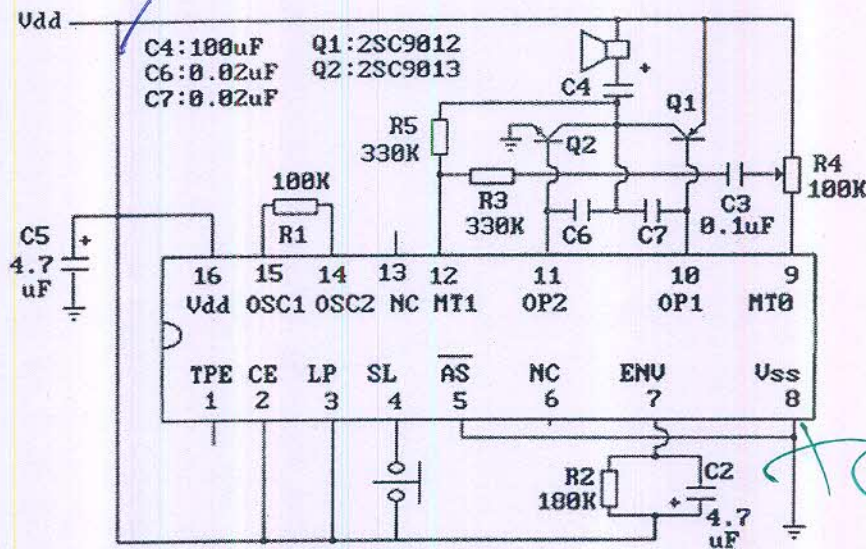
WORKING:

The heart of a doorbell is an electromagnet. Electromagnets are coils of wire wrapped around a small piece of magnetic metal. When electricity passes through the wire, it creates a magnetic field around the wire.

When you press a doorbell button, you complete an electrical circuit that allows household electricity to flow through the doorbell's internal electromagnet. The magnetic field generated by the electromagnet is then used to power a mechanism that creates the doorbell sound.

Doorbells are low-voltage devices. This means they require relatively little energy to operate. An important part of a doorbell mechanism is the transformer. The transformer converts regular 120-volt household current to the lower voltage (usually somewhere between 6-16 volts) required by the doorbell.

A simple chime doorbell uses the magnetic field created by the electromagnet to move a magnetic piston to strike two tone bars. This makes that "ding dong" sound you've probably heard many times.

RESULT:

We have discussed the circuit and working of electronic door bell.

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OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES

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NAME- KUNAL

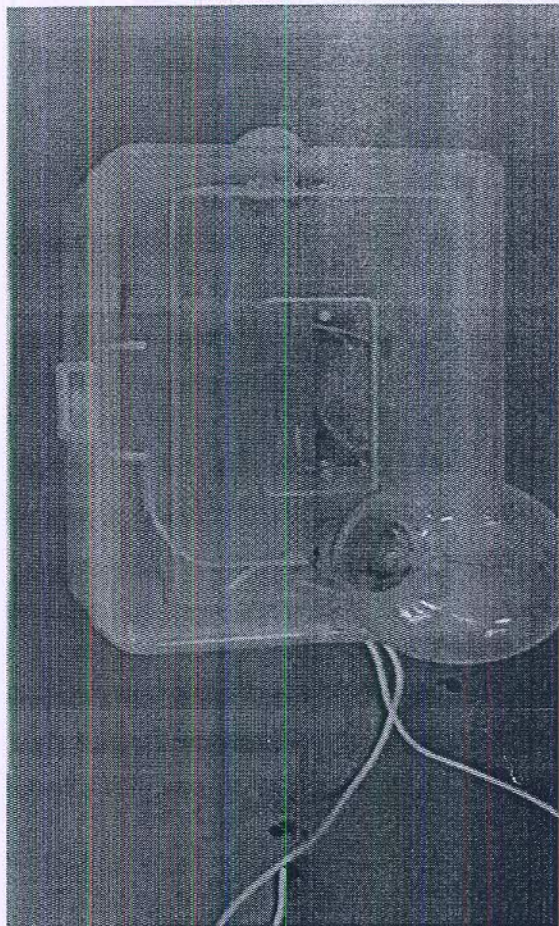CLASS- B.TECH, 6th SEM

ROLL NO-2051602

BRANCH- ECE

SIGNATURE- Kunal

Director,
THE TECHNOLOGICAL INSTITUTE
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COORDINATOR

AUTOMATIC LIGHT CONTROL USING PIR

INTRODUCTION:

This **automatic light circuit** switch on the staircase lights automatically when someone enters on the stairs and gets off after some time. There are two important components in this circuit, first is **PIR Sensor** (Passive Infrared Sensor).

PIR Sensor

PIR sensor is used here to detect the Human body movement, whenever there is any body movement the voltage at output pin changes. Basically it detects the Change in Heat, and produce output whenever such detection occurs. You can learn more about PIR sensor here, there are some useful features in PIR sensor

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like how to change the distance range, how to set the duration for which the light should be ON etc.

COMPONENTS REQUIRED:

1. PIR sensor
2. Bulb
3. Ac supply(220v)
4. Diode 1n4007
5. 9v batteries
6. Transistor(BC547)
7. Resistance
8. Relay module

CIRCUIT DIAGRAM:

BULB

NC

AC 220V

COM

NO

RELAY
6V

PIR SENSOR — Vcc, Out, GND

R1
1k

Q1
BC547

DIODE
1N4007

B1
9V

RELAY MODULE

CircuitDigest
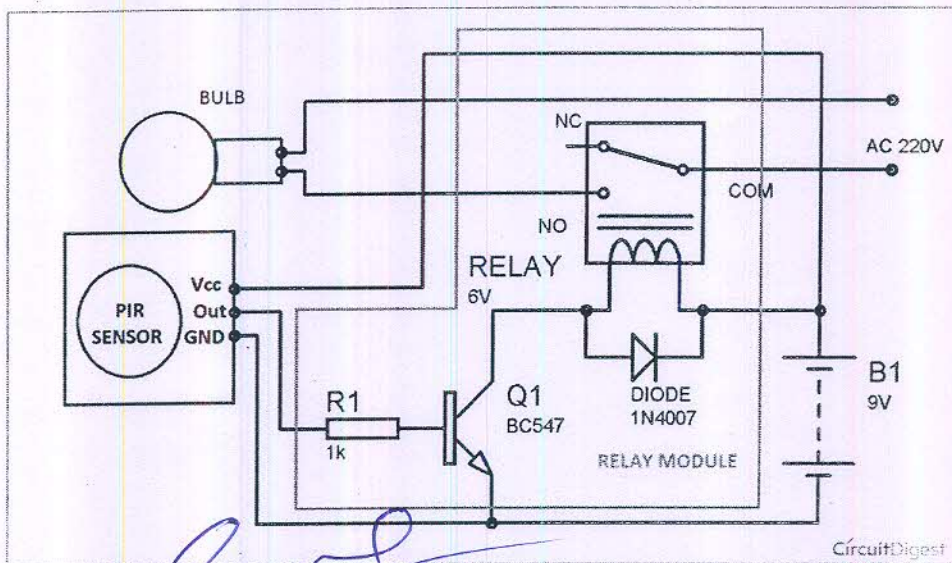
WORKING:

This automatic staircase light circuit can be easily explained. Whenever PIR sensor detects any body movement, its OUTPUT pin becomes HIGH, which applies the triggering voltage to the base of the transistor, transistor get ON, and current started flowing through the coil. Coil in Relay gets energies and create electromagnetic field, which attracts the lever and COM and NO get connected. This allows a much larger current (220v AC) to flow, which turns ON the BULB. You can increase or decrease the Bulb ON duration by setting up PIR sensor.

RESULT:

We have discussed the circuit and working of automatic light control using PIR.

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
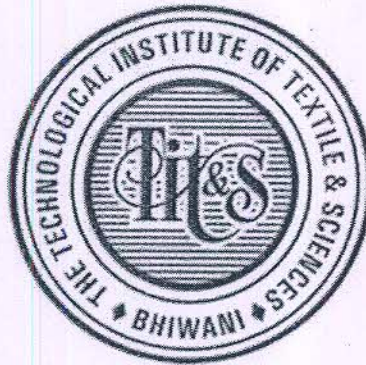
BHIWANI

NAME- MANJEET

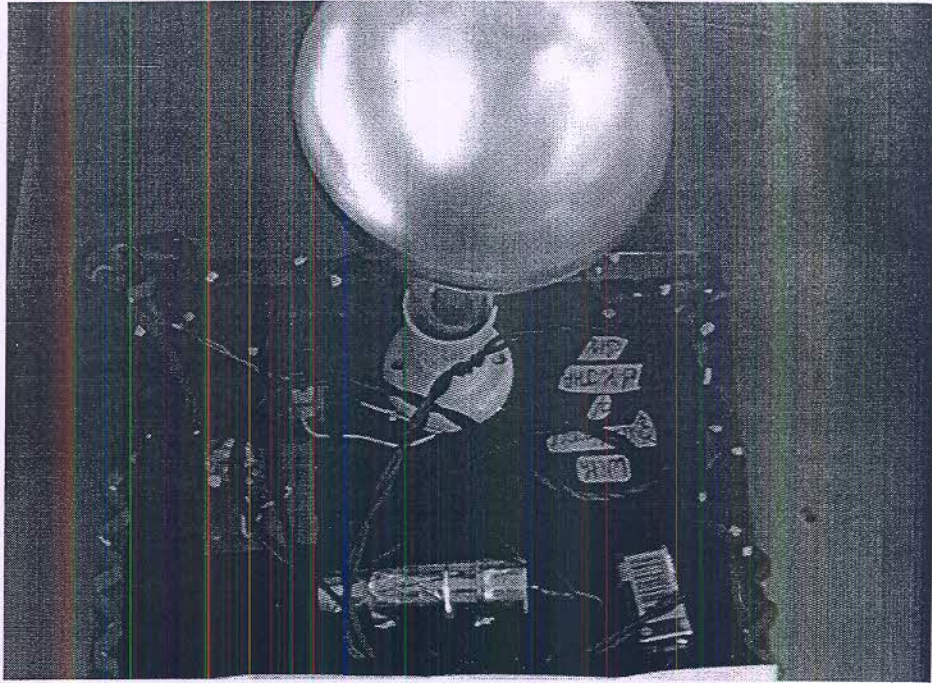CLASS- B.TECH, 6th SEM

ROLL NO-2051603

BRANCH- ECE

SIGNATURE- Manjeet

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR

AUTOMATIC LIGHT CONTROL USING LDR

INTRODUCTION:

 You have seen street light which automatically gets turned on in the night and gets turned off in the morning or day time, there are sensors who senses the light and control the light accordingly. These Street lights are an important project in smart cities.

So here in this project, we are going to make a **Simple Automatic Street Light Circuit using LDR and Relay**, which will turn on and off the light bulb based on the lights in surroundings. This circuit is quite simple and can be built with Transistors and LDR, you don't need any op-amp or 555 IC to trigger the AC load. Here we have used an AC bulb as street light. Some applications of this circuit are street light controlling, home/office light controlling, day and night indicators, etc.

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES * BHIWANI *

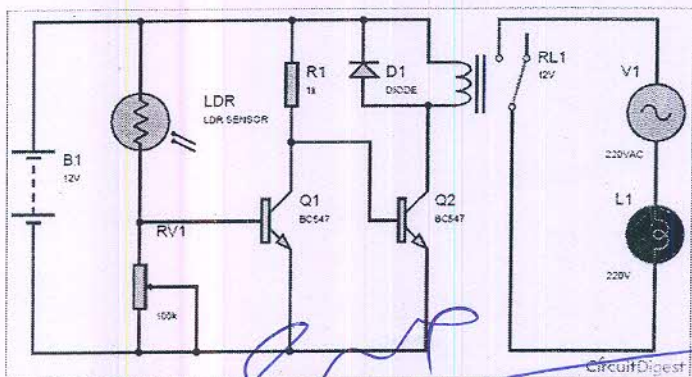Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

COMPONENTS REQUIRED:

1. Transistor BC547 -2

2. LDR (Light Dependent Resistor)

3. Relay

4. Resistor 1k

5. 100k Potentiometer

6. Power Supply 12v -1

7. Connecting wires

8. Jumper wires

9. Screw terminal Block 2 pin or 3 pin

10. Bread Board or Perf Board

11. 1n4007 Diode

12. AC supply

13. AC Load or Bulb

CIRCUIT:

WORKING:

In this project, we have used an **LDR (Light Dependent Resistor)** which is responsible for detecting light and darkness. The resistance of LDR increases in darkness and reduces in presence of light. This circuit is same as a Dark Detector or Light Detector Circuit, only here we have replaced simple LED with a AC load, using a Relay. Two BC547 NPN transistors are used to drive the relay.

Whenever light falls over LDR its resistance get decreased and transistor Q1 turns ON and collector of this transistor goes LOW, and this makes the second transistor turns OFF due to getting a LOW signal at its base, so relay also remain turned OFF due to second transistor.

Now whenever LDR senses Darkness, mean no light, then transistor Q1 turned ON due to increase in the resistance of LDR which is responsible for voltage drop at the base of Q1. Due to a LOW signal at the Q1 base, Q2 transistor gets a HIGH signal from the collector of Q1 and turns ON the relay. Relay turned ON the AC load that is connected to relay. A 10K pot is also used for setting up the sensitivity of the circuit.

RESULT:

We have made the circuit of automatic light control using LDR and explained its working.

IQAC
COORDINATOR

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

A PROJECT REPORT

on

IOT Based Temperature and Humidity Monitoring using BLYNK, ESP8266 and
DHT11 Sensor

Submitted by

VIKAS TANWAR , Bhavesh, Vishal Badgal

(17B1072039)

submitted in the partial fulfillment of the requirements for the award of degree
of

B.TECH

IN

ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

TIT
Since 1943

The Technological Institute of Textile and Sciences, Bhiwani

MAHARISHI DAYANAND UNIVERSITY,ROHTAK

2017 - 2021

Department of Electronics and Communication

Edit with WPS Office

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI ★

The Technological Institute of Textile and Sciences, Bhiwani

CERTIFICATE

This is to certify that the work presented in the project report entitled "...IOT Based Temperature and Humidity Monitoring using BLYNK , ESP8266 and DHT11 Sensor.......", in the partial fulfillment of the requirement for the award of Degree of Bachelor of Technology in Electronics and Communication of The Technological Institute of Textile and Sciences, Bhiwani is an authentic work carried out under my supervision and guidance.

To the best of my knowledge ,the content of this project work not form a basis for the award of any previous Degree to any one else.

Vikash, Bhavesh & vishal Badgal

Date: 22/7/21

Head of the Department

Project Guide

IQAC COORDINATOR

Director,
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

A PROJECT REPORT ON

DISTANCE MEASUREMENT SYSTEM

Submitted By

VIJAY KUMAR (17EC017)

SUBODH (17EC014)

ANKIT (17EC002)

MEENAKSHI (17EC011)

Submitted in the partial fulfilment of the requirements for the award of degree

Of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS & COMMUNICATION

The Technological Institute of Textile and Sciences, Bhiwani

MAHARISHI DAYANAND UNIVERSITY, ROHTAK

(2017-2021)

Department of Electronics And Communication

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

1

CERTIFICATE OF APPROVAL

The foregoing project work report entitled **"DISTANCE MEASUREMENT SYSTEM"**, is a hereby approved as a creditable work and been presented in a satisfactory manner to warrant is acceptance as prerequisite to the degree for which it has been submitted.

It is understood that this approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed therein, but approve the project work for the purpose for which it is submitted.

(Internal Examiner)   (External Examiner)

(Head of the Department)

The Technological Institute of Textile and Sciences,

Bhiwani

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

2

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES
★ BHIWANI ★

ECE-[7th & 8th]
[ECE-404-f]
ECE- 402-f]
7th & 8th

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES
PO BIRLA COLONY
BHIWANI 127021

Phone : (01664) 242561   Fax: (01664)243728   Email: info@titsbhiwani.ac.in

MR KAMAL SARDANA
sardanakamal@yahoo.com
HEAD OF DEPARTMENT & TRAINING INCHARGE
DEPTT OF ELECTRONICS & COMMUNICATION ENGINEERING

Dated : Dec,7, 2020
Ref: EC Trg/20/03

To, Hello India,

Gurgaon.

Subject: Facilities of Practical Training for B.Tech (Electronics & Communication Engineering) students
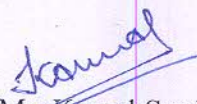
Dear Sir,

The curriculum of our B.Tech (Electronics & Communication Engineering) course includes six month (minimum of four and half month) practical training at the end of the seventh Semester. Your esteemed organization has been kind enough in the past to patronize our students in the matter of the aforesaid training and we expect from you the same during this year also.
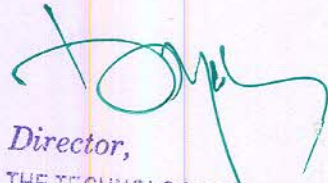
The training for the current session is scheduled to commence from january 2021. **Mr.Vibhor Sharma** student of our final year B.Tech (ECE) class is very keen to undergo the aforesaid practical training at your reputed organization. I shall therefore be thankful if you kindly consider his/her case and convey your acceptance at the earliest.

Since the above student is still dependent on his/her parents, you may please consider paying him/her a suitable stipend during the training period.

Thanking you
Yours truly

(Mr. Kamal Sardana)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

A
INDUSTRIAL PROJECT TRAINING REPORT
ON

Design & Development of Automotive Horns

Submitted in the partial fulfillment of the 8th semester training for the
Award of degree of

BATCHELOR OF TECHNOLOGY
(2017-2021)

Submitted by

Vibhor Sharma
Roll No. : 2070850

Under the guidance of:

Mr. Urg Sain
Assistant Manager D&D deppt.,
HELLA INDIA AUTOMOTIVE pvT LTD.

Submitted to:

Mr. SK Jha (Senior Technical Supdt.)

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES
BHIWANI-127021

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
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PO BIRLA COLONY
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Phone : (01664) 242561
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Email: info@titsbhiwani.ac.in

MR KAMAL SARDANA
sardanakamal@yahoo.com
HEAD OF DEPARTMENT & TRAINING INCHARGE
DEPTT OF ELECTRONICS & COMMUNICATION ENGINEERING

To, Java T point,
Noida.

Dated : Dec,11, 2020
Ref: EC Trg/20/04

Subject: Facilities of Practical Training for B.Tech (Electronics & Communication Engineering) students
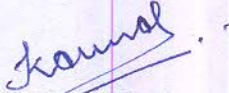
Dear Sir,

The curriculum of our B.Tech (Electronics & Communication Engineering) course includes six month (minimum of four and half month) practical training at the end of the seventh Semester. Your esteemed organization has been kind enough in the past to patronize our students in the matter of the aforesaid training and we expect from you the same during this year also.

The training for the current session is scheduled to commence from january 2021. Vikash student of our final year B.Tech (ECE) class is very keen to undergo the aforesaid practical training at your reputed organization. I shall therefore be thankful if you kindly consider his/her case and convey your acceptance at the earliest.

Since the above student is still dependent on his/her parents, you may please consider paying him/her a suitable stipend during the training period.

Thanking you
Yours truly

(Mr. Kamal Sardana)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

2020-21

A

Submitted In Partial Fulfillment Of The 8th Semester Training For The
Award Of Degree Of

BACHELOR OF TECHNOLOGY
(2017-2021)

Submitted By:

Under The Guidence Of:

Vikas
Roll no- 17ec018

Mr. Sharad Chaudhary
javaTpoint pvt. ltd

TIT
Since 1943

Submitted To:

THE TECHNOLOGICAL INSTITUTE OF TEXTILE AND SCIENCES
BHIWANI-127021

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC
COORDINATOR
THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES ★ BHIWANI ★

java T point

**Date: 14 July 2021**   **Ref.No.:U722900DL2013PTC13**

TO WHOMEVER IT MAY CONCERN

This is to certify that "**Vikas**" S/O "**Mr. Mahender Singh**" has successfully completed the project titled "**Notepad**" as part of the Industrial Training in our organization.

The project using "**JAVA**" was completed under the guidance and supervision of "**Mr. Sharad Chaudhary**" from "**10th May 2021**" to "**10th July 2021**". He has completed the assigned project well within the given time frame.

The performance and conduct during the project was good and dedicated. During this tenure, we found him sincere and hardworking towards the training.
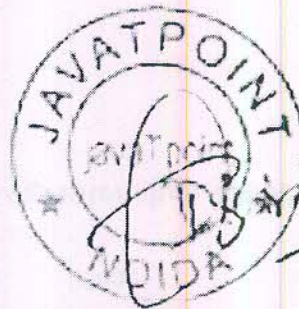
AUTHORIZED SIGNATURE

Director,
THE TECHNOLOGICAL INSTITUTE
www.javatpoint.com OF TEXTILE & SCIENCES, BHIWANI
hr@javatpoint.com

G-13, 2nd Floor, Sector 3
Noida U P 201301

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COORDINATOR
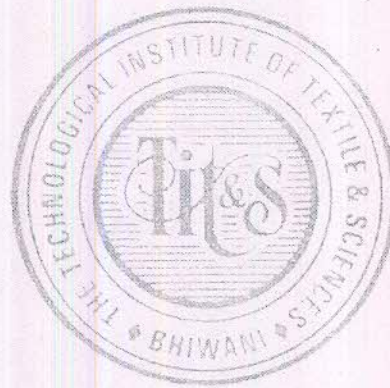THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

A STUDY ON PROPERTIES OF COTTON FABRICS COATED WITH CARBON NANOTUBES

A

Dissertation submitted in the partial fulfilment of the requirement for

the award of the degree of

MASTERS OF TECHNOLOGY IN TEXTILES

(Maharshi Dayanand University, Rohtak)

Guide

Amal Chowdhury

Dr Amal Chowdhury
Assistant Professor (Textile Technology)

Co-Guide

Dr Anil Kumar
Assistant Professor (Physics)

Scholar

Monika Gupta
17MT004

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

The Technological Institute of Textile and Sciences
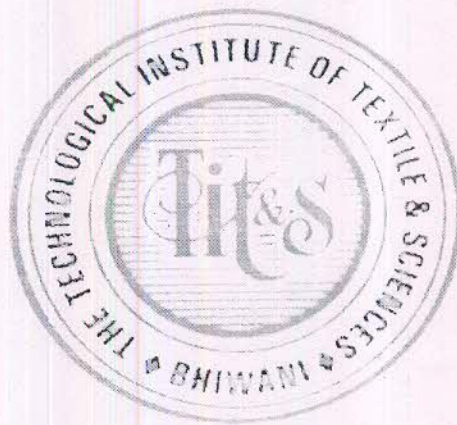**Bhiwani – 127021, Haryana**
2019

IQAC
COORDINATOR

Effects of Blend Ratio and Weave Structure o the Mechanical and Comfort Properties of Cocoena / Cotton woven Fabrics

A dissertation submitted in partial fulfillment of the requireme for the award of the degree of

MASTER OF TECHNOLOGY IN TEXTILES

(Maharshi Dayanand University,Rohtak)

Guide:

L. AJIT KR. PATTANAYAK

Assistant Professor

Se

NAVEEN KR. SH

17N

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Department of Textile Technology

The Technological Institute of Textile and Sciences

Bhiwani – 127021, Haryana

2019-20

Optimization of Process Variables of Drafting Systems at Speed Frame Using Grey Relational Analysis

A dissertation submitted in partial fulfillment of the requirement
for the award of the degree of

MASTER OF TECHNOLOGY IN TEXTILES

(Maharshi Dayanand University, Rohtak)

Guide:

Dr Ashvani Goyal
Assistant Professor

Scholar:

Sushant Dhiman
17MT003

Department of Textile Technology

The Technological Institute of Textile and Sciences

Bhiwani – 127021, Haryana

(2019)

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

Declaration

I declare that this dissertation title **"Optimization of Process Variables of Drafting Systems at Speed Frame Using Grey Relational Analysis"** for the M. Tech (Textile Technology) represents my own original work, except where due acknowledge is made and that it has not been previously included in any types of thesis, dissertation or report submitted to the Maharishi Dayanand University, Rohtak or to any other institutions or university for any degree, diploma or other qualifications

Sushant Dhiman

College Roll No- 17MT003

Textile Technology

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

CERTIFICATE

It is certified that the work presented in this dissertation entitled "**Optimization of Process Variables of Drafting Systems at Speed Frame Using Grey Relational Analysis**" being submitted by **Mr. Sushant Dhiman** to **Maharishi Dayanand University, Rohtak,** for the award of degree of **Master of Technology in Textile Technology** has been carried out under my guidance. The results reported in this dissertation have not been submitted, in part or full, to any university for the award of any degree or diploma

Dr. Ashvani Goyal

Assistant Professor

Department of Textile Technology

The Technology Institute of Textile & Sciences

Bhiwani-127021,Haryana

Director,

THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI