

1.1.2 Certificate Courses (30 hours duration)

Sr. No.	Program Code	Name of the Certificate/diploma programs introduced in last 5 years	Year of introduction
1.	C/Com/2018-19/17	Financial Planning	2018-2019
2.	S/IT/2017-18/13	Networking	2017-2018
3.	S/Math/2017-18/12	Logical Reasoning	2017-2018
4.	A/Islamic/2017-18/11	Quran and Urdu Literature	2017-2018
5.	A/Urdu/2017-18/10	Mysticism and Urdu Poetry	2017-2018
6.	S/IT/2017-18/09	Basic Computers	2017-2018
7.	C/Com/2017-18/08	Certificate Course on Tally	2017-2018
8.	S/Phy/2016-17/06	Basic Electronic Circuits: Designing and Building	2016-2017
9.	C/BMS/2015-16/05	Personality Development	2015-2016
10.	S/Bot/2015-16/04	Basic Plant Tissue Culture Techniques	2015-2016
11.	S/Phy/2015-16/03	Basic Electronics	2015-2016
12.	S/Phy/2015-16/02	Basic Optics	2015-2016

Certificate Course in Financial Planning

Duration of the Course: 12.03.2019 to 09.04.2019 (30 hours)

Program Code: C/Com/2018-19/17

Organised by: Department of Commerce and Accountancy

Name of Resource persons: Ms. Nazneen Momin
Mrs. Ansari Kahkashan
Ms. Afreen Ansari

Number of beneficiary: 50

Year of introduction: 2018-2019

COURSE CONTENT:

Module-1

Introduction to financial planning

1.1 Financial literacy and inclusion: Meaning and importance

1.2 Financial planning: Meaning and importance

1.3 Principle of financial planning: Stages / Process

1.4 Types of Risk: Market Risk, Inflation Risk, Interest Rate Risk, Purchasing power Risk, Liquidity risk, Foreign Exchange Rate Risk, Business Risk

1.5 Understanding Investor's investment Psychology and Behavior-Factor – income, Life Stage

1.6 Practical Assignment- Classification of Investor on the basis of risk profile.

Module-2

2.1 Fixed Income Instruments: Government securities, corporate bonds, Term Deposit, Small Saving Scheme.

2.2 Money Market Instrument: Treasury bills, commercial Papers, Certificate of Deposit, Benefits

2.3 Mutual funds: Meaning Types and benefits- SIP

2.4 Commodity Market: Role and Importance

Assessment Procedure: At the end of the course the power point presentations made by the students were analysed.



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Selected for Star College Scheme of DBT, Ministry of Science & Technology

CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. Ansari Samrah Javed Alam
of F.Y.B.Com

participated in short term / skill oriented / value added
certificate course / workshop / seminar / symposium /

training course on Financial Planning

on / from 12/03/19 - 09/04/19 This activity was

organized by Dept. of Commerce

Nawab
Coordinator

Ishu
IQAC Coordinator

[Signature]
Principal



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CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. Momin Naliya Muntaz Ahmed
of F.Y.B.COM

participated in ~~short term~~ / ~~skill oriented~~ / ~~value added~~
certificate course / ~~workshop~~ / ~~seminar~~ / ~~symposium~~ /

training course on Financial Planning

on / from 12/03/19 - 09/04/19 This activity was

organized by Dept. of Commerce

Nwamin
Coordinator

Thak
IQAC Coordinator

[Signature]
Principal



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CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. Gupta Priyanka Shankar
of F.Y.B.Com

participated in ~~short term~~ / ~~skill oriented~~ / ~~value added~~
certificate course / ~~workshop~~ / ~~seminar~~ / ~~symposium~~ /
training course on Financial Planning
on / from 12/03/19 - 09/04/19 This activity was
organized by Dept. of Commerce

Nurun
Coordinator

Ishu
IQAC Coordinator

[Signature]
Principal

Certificate Course on Networking

Duration of the Course: 20.02.2019 to 26.02.2019 (30 hours) (2018-2019)

14.10.2017 to 19.10.2017(30 hours) (2017-2018)

Organized by: Department of InformationTechnology

Name of Resource persons:

Mr. Mohammad Nasim (Technology Lead, Capgemini)

Ms. Ansari Anam (Consultant, Capgemini)

Mr. Nayab Falke (Deputy Manager CCIL, RBI)

Mrs. Navdeep Kaur (Director/Software Testing Trainer, QUASTECH, Thane)

Mr. Shoaib Mahapule (Solutions Architect, Bharti Airtel)

Mr. Aaqib Hamdule (Associate Consultant, Financial Technologies International)

Mr. Ansari Rizwan (Technical Consultant, Capgemini)

Ms. Nusrat Ansari (Department of Information Technology)

Ms. Misbah Momin (Department of Information Technology)

Number of beneficiary: 124 (2018-2019) & 73 (2017-2018)

Year of introduction: 2017-2018





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THE DEPARTMENT OF INFORMATION TECHNOLOGY

Organizes

“REGIONAL LEVEL NETWORKING COURSE”

(20th February 2019 to 26th February 2019)

AGENDA

Venue: College Auditorium

Comperer: Ms. Rozina Shaikh (T.Y.BSc.I.T.)
Ms. Zeba Khan (F.Y.BSc.I.T.)

20 th February 2019 (5 hours)	7:30-12:30	Assignment work on Software, Domains of Software Development
21 st February 2019 (5 hours)	7:30-12:30	Assignment work on Software Development Life Cycle
22 nd February 2019 (8 hours)	08:00 am to 08:30 am	Registration
	08:30 am to 08:35 am	Qirat Ms. Iqra Momin (T. Y. B. Sc. I.T)
	08:35 am to 09:00 am	Welcome Address, Introduction and Felicitation of Guest Ms. Ansari Nusrat IT Incharge
	09:00 am to 09:10 am	Address by Principal Dr. Moses J. Kolet
	09:10 am to 11:30 am	Requirement Gathering & Analysis Mr. Mohammad Nasim, Technology Lead, Capgemini.
	11:30 am to 12:00 noon	Break
	12:00 noon to 02:00 pm	Designing & Coding Ms. Ansari Anam, Consultant, Capgemini.
	02:00 pm to 04:00 pm	Assignment

	04:00 pm to 04:30pm	Feedback	
	04:30 pm to 05:00 pm	Vote of Thanks National Anthem	Ms. Kulsum Ansari (T.Y.BSc. I.T.)
23 rd February 2019 (8 hours)	08:00 am to 08:10 am	Qirat	Ms. Sheeba Momin (T.Y.BSc. I.T.)
	08:10 am to 08:30 am	Welcome Address, Introduction and Felicitation of Guest Speaker	Ms. Ansari Nusrat IT Incharge
	08:30 am to 11:30 am	Coding, implementation & Development	Mr. Nayab Falke, Deputy Manager, RBI
	11:30 am to 12:00 noon	Break	
	12:00 noon to 2:00 pm	Testing & Career Guidance in IT	Ms. Navdeep Kaur , Director/Software Testing- Trainer, Quastech
	2:00 pm to 4:00 pm	Assignment	
25 th February 2019 (2 hours)	12:10pm- 2:10pm	Assessment	
26 st February 2019 (2 hours)	12:10pm- 2:10pm	Assessment	
	4:00pm to 4:30pm	Certificate Distribution	
	4:30 pm to 5:00 pm	Vote of Thanks National Anthem	



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THE DEPARTMENT OF INFORMATION TECHNOLOGY

organizes

“REGIONAL LEVEL NETWORKING COURSE”

(14th October 2017 to 19th October 2017)

AGENDA

Venue: College Auditorium

Comperer: Ms. Hafsa Kharbe (T.Y.BSc.I.T.)
Ms. Falak Shaikh (T.Y.BSc.I.T.)

14 th October 2017 (5 hours)	7:30-12:30	Assignment work on Software, Domains of Software Development	
15 th October 2017 (5 hours)	7:30-12:30	Assignment work on Software Development Life Cycle	
16 th October 2017 (8 hours)	08:00 am to 08:30 am	Registration	
	08:30 am to 08:35 am	Qirat	Ms. Alansari Fauzia (F.Y.BSc. I.T)
	08:35 am to 08:40 am	WelcomeAddress	Ms. Ansari Nusrat
	08:40 am to 08:50 am	Address by Principal	Dr. Moses J. Kolet
	08:50 am to 09:00 am	Introduction and Felicitation of Guest	Ms. Misbah Momin
	09:00 am to 11:00 am	(ASP.NET with C#)	Mr. Nayab Falke
	11:00 am to 11:15 am	Break	
	11:15 am to 01:15 pm	(Software Testing)	Mr. Nayab Falke
	01:15 pm to 02:00 pm	Lunch Break	
	02:00 pm to 02:05 pm	Introduction and Felicitation of Guest Speaker	Ms. Ayesha Hani
	02:05 pm to 04:00 pm	Network Security	Mr. Shoaib Mahapule
17 th October 2017 (8 hours)	08:45 am to 08:50 am	Qirat	Ms. Sheeba Momin (S.Y.BSc. I.T.)
	08:50 am to 08:55 am	Welcome Address	Ms. Ansari Nusrat
	08:55 am to 09:00 am	Introduction and Felicitation of Guest Speaker	Ms. Sara Khot
	09:00 am to 11:00 am	(Advanced Java)	Mr. Aaqib Hamduley
	11:00 am to 11:15 am	Break	
	11:15 am to 01:15 pm	(Linux Administration)	Mr. Rizwan Ansari
	01:15 pm to 01:30 pm	Vote of Thanks	Ms. Riya Gupta (T.Y.BSc. I.T.)

	01:30 pm to 02:00 pm	Certificate Distribution National Anthem	-----
18 th October 2017 (2 hours)	12:10pm-2:10pm	Assessment	
19 th October 2017 (2 hours)	12:10pm-2:10pm	Assessment	
	4:00pm to 4:30pm	Certificate Distribution	
	4:30 pm to 5:00 pm	Vote of Thanks National Anthem	

Certificate Course on Logical Reasoning

Duration of the Course: 01.03.2018 to 01.04.2018 (30 hours)

Organized by: Department of Mathematics

Name of Resource persons: Mr. Meraj Bubere

Mr. Umer Farooque

Number of beneficiary: 26

Year of introduction: 2017-2018

Course Content:

- ❖ Logical Statements
- ❖ Venn Diagram
- ❖ Numbers in a sequence
- ❖ Patterns
- ❖ Coding- Decoding
- ❖ Blood Relations
- ❖ Directions
- ❖ Positions

Certificate Course in Quran and Urdu Literature

Duration of the Course: 10.03.2018 to 31.03.2018 (30 hours)

Organised by: Department of Islamic Studies and Urdu



Name of Resource persons: Dr. Nooruddin Shaikh

Mr. Amir Hamza

Number of beneficiary: 36

Year of introduction: 2017-2018

Course Content:

<p>K.M.E. Society's G. M. Momin Women's College (Affiliated to the University of Mumbai Bhiwandi Re-Accredited by NAAC with "A" Grade & ISO 9001:2008 Certified Institution)</p> <hr/> <p>Syllabus for Certificate course in "Quran and Urdu Literature" By Departments of Islamic Studies and Urdu</p> <p>Duration of Course: 30 Hrs. Topics are as follow: 1. Introduction of Quran 2. Linguistic study of Quran 3. Interpretation and analysis of Quranic Stories in the context of Story Telling 4. Introduction of Urdu Fiction 5. Origin of Quranic stories in Urdu Fiction 6. Quranic allusion in Urdu poetry</p> <p> Course Co-coordinator Mr. Amir Hamza Baig</p> <p> Course Coordinator Dr. Nooruddin Shaikh</p>
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Notice

03/03/2018

All the students are hereby informed that Departments of Islamic Studies and Urdu are jointly going to conduct a Certificate course of 30 hours on “**Quran and Urdu Literature**” from 10/03/2018.

Interested students can enroll their names to the following staff members.

Course Coordinator


Dr. Nooruddin Shaikh



Course Co-coordinator

Mr. Amir Hamza




for **Principal**
Dr. Moses J. Kolet

Certificate Course in Mysticism and Urdu Poetry

Duration of the Course: 09.03.2018 to 31.03.2018 (30 hours)

Organised by: Department of Urdu and Islamic Studies

Name of Resource persons: Mr. Amir Hamza

Dr. Nooruddin Shaikh

Number of beneficiary: 36

Year of introduction: 2017-2018

Course Content:

<p>K.M.E. Society's G. M. Momin Women's College <i>(Affiliated to the University of Mumbai Bhiwandi Re-Accredited by NAAC with "A" Grade & ISO 9001:2008 Certified Institution)</i></p> <hr/> <p>Syllabus for Certificate course in "Mysticism and Urdu Poetry" By Departments of Urdu and Islamic Studies</p> <p>Duration of Course: 30 Hrs.</p> <p>Topics are as follow:</p> <ol style="list-style-type: none">1. Mysticism: Meaning and Scope2. Mysticism: Its origin and development3. Strains in Mysticism : Wahdat al-Wujūd (Unity of Existence) Wahdat al-Shuhood (Unity of Witness)4. Influence and impact of Mysticism on Classical Urdu Poetics5. Era wise impact of Mysticism on Urdu Poetry6. Contemporary Urdu Poetry and Mysticism <p> Course Co-coordinator Dr. Nooruddin Shaikh</p> <p> Course Coordinator Mr. Amir Hamza Baig</p>

Notice

03/03/2018

All the students are hereby informed that Departments of Urdu and Islamic Studies are jointly going to conduct a Certificate course of 30 hours on “Mysticism and Urdu Poetry” from 09/03/2018.

Interested students can enroll their names to the following staff members.

Course Coordinator


Mr. Amir Hamza



Course Co-coordinator

Dr. Nooruddin Shaikh



for 
Principal

Dr. Moses J. Kolet

Certificate Course on Basic Computers

Duration of the Course: 22.02.2018 to 22.03.2018 (30 hours)

Organised by: Department of Information Technology

Name of Resource persons: Ms. Ansari Nusrat

Number of beneficiary: 39

Year of introduction: 2017-2018

Course Content:

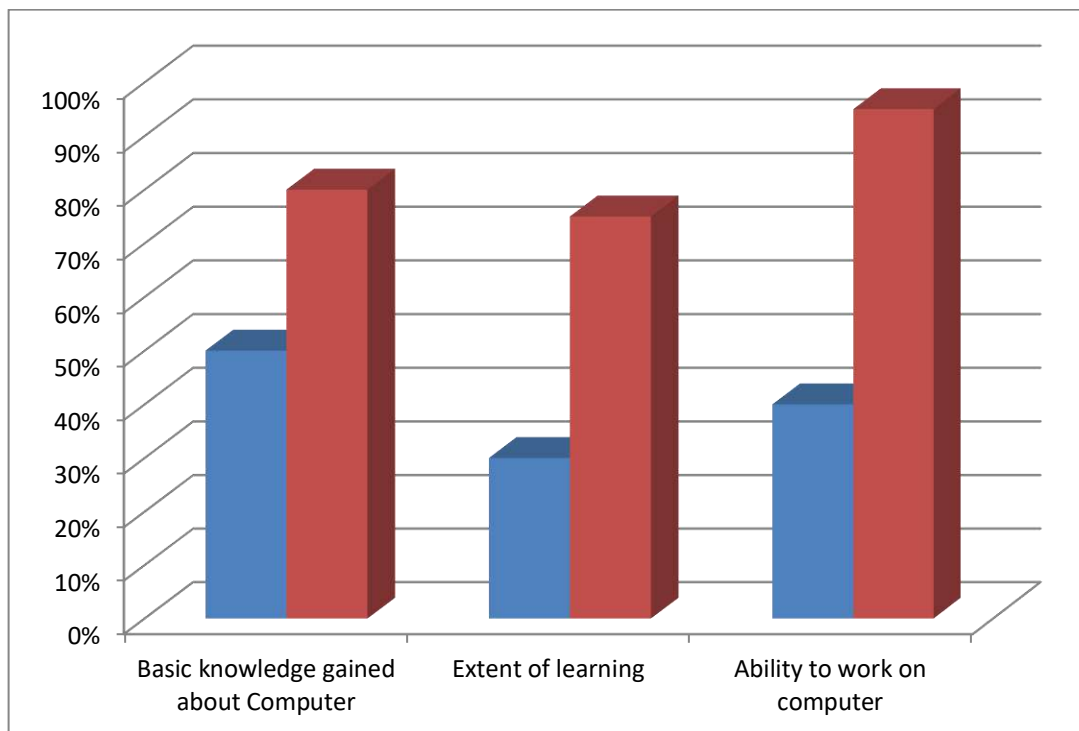
Module	Title	Sub Contents	Hours
Module-1	Architecture of computer	Components of Computer System Concept of Hardware and Software	2
Module-2	Operating System	Basic DOS Commands. Working on Different types of Operating System	3
Module-3	Word Processing Basics	Formatting the Text Table Manipulation	3
Module-4	Spread Sheet	Formulas and Function Conditional Formatting	4
Module-5	Presentation	Slide Show Smart Art Tools	3
Module-6	Computer Networks	Web Browsing Software Basics of E-mail	7
Module-7	Internet	Mobile Banking, Mobile Recharge, Online Ticket Booking. Creation of a website: HTML Basic Commands.	8
Total			30

Certificate Course on Basic Computers



Percentage of Satisfaction:

Sr. No.	Course knowledge	Percentage of satisfaction before the course	Percentage of satisfaction after the course
1	Basic knowledge gained about Computer	50%	80%
2	Extent of learning	30%	75%
3	Ability to work on computer	40%	95%



Student's Satisfaction for Basic Computer Course



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CERTIFICATE

*This is to certify that Ms. _____
of _____ participated in Skill Oriented Certificate Course on
_____ in collaboration with _____
under the Research Project entitled "Encouraging, Promoting and Developing Entrepreneurship skills
amongst Muslim minority girl students in Bhiwandi", sponsored by Government of Maharashtra,
Maharashtra State Commission for Women, Mumbai.*

Co-Investigator

Mrs. Jayashree Thakre
Principal Investigator

Dr. M. J. Kolet
Principal

Certificate Course on Tally

Duration of the Course: 22.02.2018 to 22.03.2018 (30 hours)

Programme Code: C/Com/2017-18/08

Organised by: Aqueel Mushtaque Fakhri Computer Centre, Konkani Muslim Education Society, Bhiwandi

Number of beneficiary: 26

Year of introduction: 2017-2018

Course Content:

Week	Title	Hours
1	INVENTORY VOUCHER	08
2	INVENTORY VOUCHER	08
3	ACCOUNTING VOUCHER	08
4	ACCOUNTING VOUCHER	06
	Total	30

**Certificate Course on Tally
Feedback form**

Name: _____ Class: _____

ID Number: _____ Contact Number: _____

Q.1) What basic knowledge you have about Tally.

Ans) _____

Q.2) Have you ever learned Tally?

Ans) _____

Q.3) If the answer of above question is yes ,then up to what extent.

Ans) _____

Certificate Course on Tally
Satisfaction Analysis

Before the course

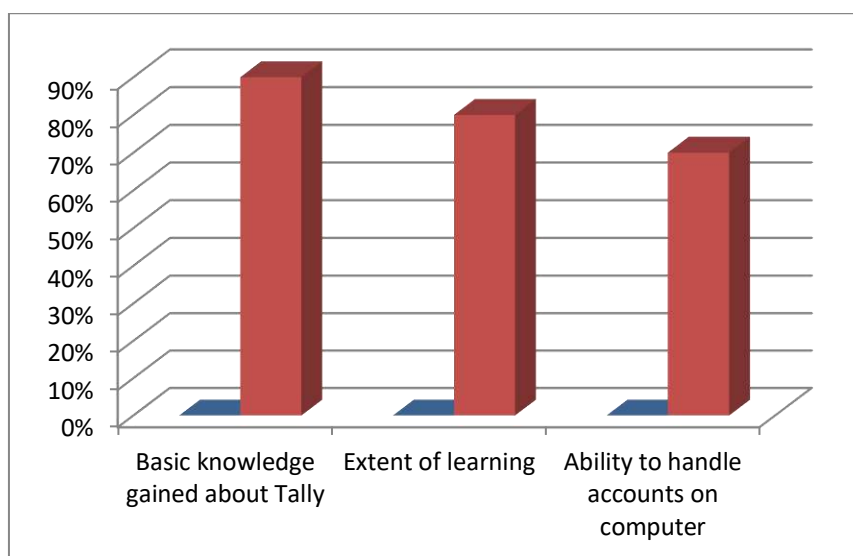
Sr.No.	Basic knowledge about Tally	Have you ever learned the Tally	Extent of learning
1	Nil Little bit knowledge	No	Nil

After the course

Sr. No.	Basic knowledge gained about Tally	Extent of learning	Ability to handle accounts on computer
1	Create company, purchase, sale, journal voucher, account inventory, transaction making	Basic concept of Tally Create company, purchase, sale, journal voucher, account inventory, transaction making	Yes, able to handle accounts on computer

Percentage of satisfaction:

Sr.No.	Course knowledge	Percentage of satisfaction before the course	Percentage of satisfaction after the course
1	Basic knowledge gained about Tally	0%	90%
2	Extent of learning	0%	80%
3	Ability to handle accounts on computer	0%	70%



Student's satisfaction for Tally course

Certificate Course on
Basic Electronic Circuits: Designing and Building

Duration of the Course: 02.03.2017 to 6.03.2017(30 hours)

Organized by: Department of Physics

Name of Resource persons: 1. Dr. Tarannum Attar
2. Mrs. Tanwin Ashrafi
3. Dr. Anik Shrivastav

Representative from Future Chip Technologies, Pune

4. Mr. Sandeep D. Agashe
5. Deepak S. Kumbhar
6. Bhujbal Ramakant
7. Bhavik Jain

Number of beneficiary: Student beneficiary: 64
Teacher beneficiary: 02
Support Staff beneficiary: 01

Year of introduction: 2016-2017



Course Content

Theory/Practical Session	Duration
Basic Electronic Components: Passive components(R ,L and C), Active Components(Diode, transistor, IC's) Identification, Value/Number, Data Sheets	5 hours
Circuit Construction: Ohm's law, Kirchhoff's Law, LDR switch, Capacitor charging and discharging, Filter circuit (RC low pass and RC high pass), Rectifier with and without filter(Half wave , full wave and Bridge Rectifier), Transistor input and output characteristics, Single stage amplifier	5 hours
IC 555 timer: Astable, Monostable, Bistable Multivibrator	5 hours
IC 741 applications: Inverting, Non-Inverting, Voltage follower, Adder Subtractor	5 hours
Non liner Applications: Integrator, Differentiator, Log amplifier	5 hours
Logic gates: Universal Gates, Half Adder, Full Adder	5 hours

Certificate Course in Personality Development

Duration of the Course: 27.08.2018 to 31.08.2018 (30 hours) (2018-2019)

Organized by: Department of BMS and Sociology

Name of Resource persons: Dr. Moses J. Kolet

Mr. Tausif Dhole

Mr. Ahmad Patel

Mr. Shahid Sukte

Mr. Sachin Jadhav

Mr. Savitha Sukumar

Mr. Mukhtar Farid

Mrs. Kanika jain

Ms. Nusrat Ansari

Number of beneficiary: 125 (Student Beneficiary) and 06 Teacher Beneficiary

Year of introduction: 2015-2016

Course Content:

- ❖ Workplace Etiquette
- ❖ Team Work
- ❖ Leadership
- ❖ Motivation
- ❖ Personality and Historical perspective
- ❖ Communication Skills
- ❖ Empowerment of women in Quran
- ❖ Career and social counselling
- ❖ Computer and I.T Literacy

Certificate Course in Personality Development

Duration of the Course: 18.07.2017 to 22.07.2017 (30 hours) (2017-2018)

Organized by: Department of BMS and Sociology

Name of Resource persons: Dr. Moses J. Kolet
Mr. Tausif Dhole
Mr. Ahmed Patel
Mr. Shahid Sakte
Dr. Nooruddin Shaikh
Mr. Sachin Jadhav
Ms. Gulistan Khan

Number of beneficiary: 230

Year of introduction: 2015-2016

Course Content:

- ❖ Workplace Etiquette
- ❖ Team Work
- ❖ Leadership
- ❖ Motivation
- ❖ Personality and Historical perspective
- ❖ Communication Skills
- ❖ Empowerment of women in Quran
- ❖ Career and social counselling
- ❖ Computer and I.T Literacy

Certificate Course in Personality Development

Duration of the Course: 17.10.2015 to 21.10.2015 (30 hours) (2015-2016)

Organized by: Department of BMS and Sociology

Number of beneficiary: 176

Year of introduction: 2015-2016

Course Content:

- ❖ Interview Skills
- ❖ Motivation
- ❖ Application Writing
- ❖ Leadership
- ❖ Performance Appraisal
- ❖ Group Discussion & Team building
- ❖ Time management
- ❖ Stress management
- ❖ Spiritual Quotient (EQ) & Emotional quotient(EQ)

Certificate Course on Basic Plant Tissue Culture Techniques

Duration of the Course: 19.03.2018 to 28.03.2018 (35 hours) (2017-2018)

Organized by: Department of Botany and Scholar's Academy

Name of Resource person: Dr. Vaishali Nirmalkar

Number of beneficiary: 11

Year of introduction: 2015-2016

Course Content:

Day	Title	Hours
1	Introduction and Basic Knowledge of Plant Tissue Culture	4
2	Knowing Instruments and Technical Instructions	3
3	Media Components	3
4	Preparation of Media	5
5	Role of plant growth hormones	6
6	Inoculation process	6
7	Callus culture, Result Observations	2
8	Result Observations	2
9	Result Observations	2
10	Result Observations	2
Total		35



Certificate Course on Basic Plant Tissue Culture Techniques

Duration of the Course: 04.04.2016 to 11.04.2016 (35 hours) (2015-2016)

Organized by: Department of Botany and Scholar's Academy

Name of Resource person: Dr. Vaishali Nirmalkar

Number of beneficiary: 20

Year of introduction: 2015-2016

Course Content:

Day	Title	Hours
1	Introduction and Basic knowledge of Plant Tissue Culture	4
2	Knowing Instruments and Technical Instructions	3
3	Media Components	3
4	Preparation of Media	5
5	Role of plant growth hormones	6
6	Inoculation process	6
7	Callus culture, Result Observations	2
8	Result Observations	2
9	Result Observations	2
10	Result Observations	2
Total		35

Certificate Course on Basic Electronics

Duration of the Course: 15.10.2015 to 20.10.2015 (30 hours) (2015-2016)

Organized by: Department of Physics

Name of Resource persons: Dr. Tarannum Attar
Mr. Arpit Trivedi
Mrs. Tanwin Ashrafi
Dr. Anik Shrivastav

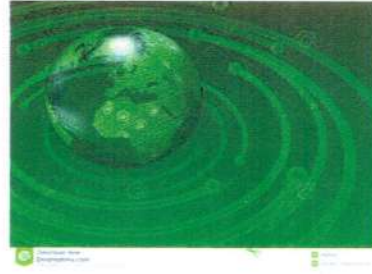
Number of beneficiary: 55

Year of introduction: 2015-2016

Course Content:

Theory: Electricity, types of electrical signals AC & DC, Circuits(Open circuit and closed circuit), Series and parallel combination, Basic Electronic components: Resistors, Capacitors, diodes, Transistors(NPN& PNP), Zener diodes, Inductor coils, Integrated Circuits, Potentiometers, LED's, Switches, Batteries, Breadboards, wires, Current meters, Voltage meters, Digital multimeters.

Practical Session: Systematic use of multimeters, measuring values of resistors, Measurement of A.C and D.C signals, Proper use of breadboards, connecting simple circuits on bread boards

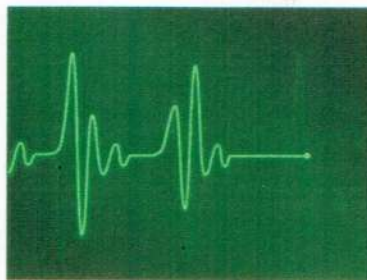


K.M.E Society's
G.M.Momin Womens College
Physics Department

organizes

Certificate Course in
“BASIC ELECTRONICS”

(15th Oct.2015 to 20th Oct.2015)



Paul



Konkan Muslim Education Society's

G. M. MOMIN WOMEN'S COLLEGE

Bhiwandi, Dist. Thane.

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ISO 9001:2008 Certified & Recipient of Best College Award*



ISO 9001:2008

CERTIFICATE

This is to certify that Dr/Mr/Ms Mamin Kaba Ramof F.Y. Bsc has
participated in Short Term / Skill Oriented / Value Added Certificate Course / Workshop on
Basic Electronics on /from Day 15-20/10/2015 with ~~invited~~ presentation.

This activity was organised by Dept. of Physics.

Parb
Coordinator

[Signature]
Principal

[Signature]
Hon. Gen. Secretary

[Signature]
President

Certificate Course on Basic Optics

Duration of the Course: 15.10.2015 to 20.10.2015 (30 hours) (2015-2016)

Organized by: Department of Physics

Name of Resource persons: Dr. Tarannum Attar
Mr. Arpit Trivedi
Mrs. Tanwin Ashrafi
Dr. Anik Shrivastav

Number of beneficiary: 55

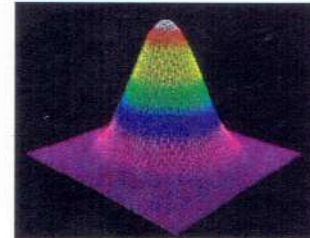
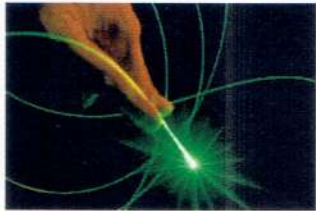
Year of introduction: 2015-2016

Course Content:

Theory:

1. Nature of Light: Matter waves, Reflection of light, Refraction of light, total internal refraction, Phenomenon of Polarization, Concept of refractive index of liquid, Lens Maker's formula
2. Wave packets , Quantum theory (X-ray spectra , Raman spectrum),
3. Geometrical Optics, Wave equations, wave- Optics, spectra, photometry and various spectroscopy, Resolving power of telescope and microscope,
4. Interference , Diffraction, Michelson and Fabry Parot interferometers and their applications
5. Electromagnetic theory , Maxwell eqns.,) Polarization , specific rotation, Laurent's polarimeter , polarized lights , Polaroid's, Nichol prisms , Brewster law, and their applications, Laser and applications

Practical Session: Preliminary adjustment of spectrometer, Angle of minimum deviation.

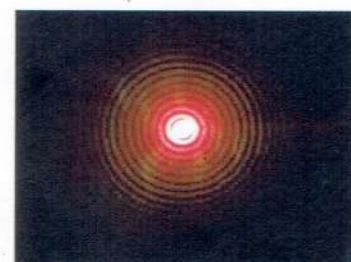
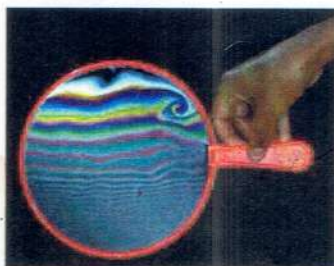
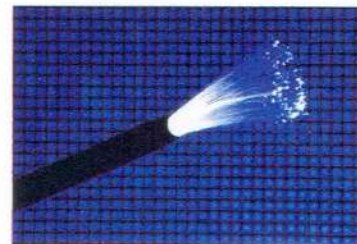
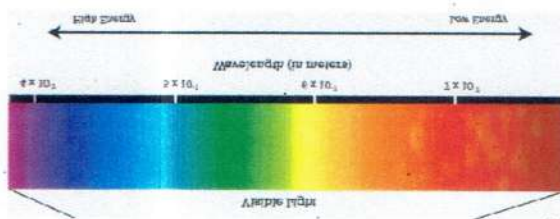


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Paul E