

INDIRA MAHAVIDYALAYA

KALAMB, DIST. YAVATMAL 445401

www.indiramahavidyalaya.com

AISHE ID: C-42925

Institution Track ID: MHCOGN15368

Criterion 1

Curricular Aspects



KEY INDICATOR 1.2

Academic Flexibility



Metric No. 1.2.1 (QnM)

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

1.2.1 (W3) Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes

Dr. Yashawant Moreshwar Donde Sarwajanik Shaikshanik Trust's

INDIRA MAHAVIDYALAYA

KALAMB, DIST. YAVATMAL, MAHARASHTRA 445401

Tele. (07201) 226147/226129

Mob. Principal – 9422867658 , IQAC coordinator - 8668564641

E mail - imvkalamb@yahoo.co.in, Website – www.indiramahavidyalaya.com

UGC recognized 2(f) & 12B, Permanent affiliation by SGBAU, NAAC accredited 'B+' grade

No. -

Date – 17/03/2024

DECLARATION

The information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file is verified by IQAC and was found correct.

Hence this is certified.


Co-ordinator
IQAC
Indira Mahavidyalaya
Kalamb




PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

INDIRA MAHAVIDYALAYA
KALAMB, DIST. YAVATMAL, MAHARASHTRA 445401

Metric No. 1.2.1 (File-2)

**Institutional programme brochure/notice for Certificate/Value added programs
with course modules and outcomes.**

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22	Certificate Course in Applied Entomology
23	Certificate Course in Environmental Issues and its Awareness
24	Certificate Course in Vedic Maths
25	Certificate Course in Quantitative Aptitude
26	Certificate Course in Self Defence-Karate
27	Certificate Course in Yoga and Meditation

**POLICY DOCUMENT
OF
CERTIFICATE COURSES**

Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's

INDIRA MAHAVIDYALAYA, KALAMB



DIST. YAVATMAL, MAHARASHTRA 445401
Tele. (07201) 226147/226129 NAAC Accredited B+ Grade
Mob. No. Principal- 9422867658, Vice-Principal -9420199479
E mail - imvkalamb@yahoo.co.in
Website – www.indiramahavidyalaya.com



Policy Document for Certificate Courses

Purpose:

To establish a framework to conduct various certificate courses at Indira Mahavidyalaya, Kalamb. This policy applies to Principal, HODs, Certificate Course coordinators, Certificate Course convener, IQAC coordinator and students of Indira Mahavidyalaya, Kalamb.

Policy Statement:

- Indira Mahavidyalaya provides students access to extra certificate programs to improve their professional and employment opportunities.
- Colleges understand that for students to fulfill their job aspirations, they might need to acquire extra information and skills.
- The college is aware that every certificate program is different and that there may be variations in the course outline, and length.
- Every certificate program that Indira Mahavidyalaya offers must last at least 30 hours.

Responsibilities:

- At the beginning of the session, the principal appoints a staff member to serve as the Certificate Course Coordinator.
- HODs, Certificate course coordinator & IQAC coordinator will decide the no. of students to be admitted, syllabus and duration of the course.
- Students should be informed about the necessity and goal of Certificate courses by the Principal, IQAC Coordinator, Certificate Course Coordinator, and HODs. Students should be made aware of the course duration and syllabus in detail. Information about Certificate courses can be shared via the college website and Student induction programs.
- The IQAC Coordinator and Certificate Course Coordinator should ensure the admission to certificate courses are done fairly in accordance with a first come first serve basis.
- The coordinator of the certificate program and the head of department are In-charge of making sure that course is finished in the allotted time. Exams for the Certificate Course should never coincide with the College's internal assessments or semester exams of the parent university.
- It is the responsibility of the student to attend the course and the exam, and to follow the guidelines provided by the coordinator of the Certificate course.

Procedure:

- Need and purpose of the certificate course to be discussed and decided in the Department meeting.
- A staff member is designated as the course coordinator by the HOD.

- Coordinator prepares the syllabus, identifies external faculty/firm (if necessary) and submit to HODs which may be approved in the Department meeting.
- The basic schedule of the course (beginning date and exam date) and the number of students to be admitted are approved by the HOD, Certificate Course Coordinator and IQAC Coordinator.
- Information about the course, including the syllabus, and format of the exams, is shared with students through the college website and brochures.
- The list of pre-admitted students is shared with the students and posted on the department notice board.
- Students complete the admission form to the college administration office.
- The course begins in accordance with the Certificate Courses regulation. Exams are given out. Students who meet the requirements receive certificates.

Document Distribution:

Certificate Course coordinator should be the custodian of following documents.

- a) Syllabus,
- b) List of students enrolled,
- c) Student attendance,
- d) Exam details,
- e) Mark lists and
- f) Copies of issued certificate

B. S. Joshi
Co-ordinator
IQAC
Indira Mahavidyalaya
Kalamb



P. B. Mandake
PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

BROCHURE OF THE CERTIFICATE COURSES 2022-23

Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALAYA , KALAMB,
Dist.-YAVATMAL
NAAC Accredited B+ Grade

Academic Year 2022-23

**ADMISSION
NOW
OPEN**

**WE OFFER
CERTIFICATE COURSE IN -**

- ✓ VYAVHARIK MARATHI
- ✓ BASICS OF KATHAK
- ✓ COMMUNICATION SKILLS
- ✓ HUMAN VALUES
- ✓ PERSONALITY DEVELOPMENT
- ✓ WOMEN'S HEALTH CARE IN RURAL AREA
- ✓ RURAL HANDICRAFTS
- ✓ TOURISM
- ✓ PANCHAYAT RAJ
- ✓ ANCIENT INDIAN CULTURE
- ✓ COMPUTER APPLICATION
- ✓ TALLY
- ✓ E-COMMERCE
- ✓ FUNDAMENTALS OF PRACTICAL BANKING
- ✓ SOIL TESTING
- ✓ HOUSEHOLD CLEANING CHEMICALS
- ✓ GREEN CHEMISTRY
- ✓ BASIC CHEMISTRY SOFTWARE
- ✓ ENERGY CONSERVATION
- ✓ FUNDAMENTALS OF CORROSION SCIENCE
- ✓ INTRODUCTION TO BASIC ELECTRONICS
- ✓ APPLIED ENTOMOLOGY
- ✓ ENVIRONMENTAL ISSUES AND ITS AWARENESS
- ✓ VEDIC MATHS
- ✓ QUANTITATIVE APTITUDE
- ✓ SELF DEFENCE-KARATE
- ✓ YOGA AND MEDITATION

Contact us :

E mail imvkalamb@yahoo.co.in

Website - www.indiramahavidyalaya.com

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Kalamb Dist. Yavatmal

BROCHURE OF THE CERTIFICATE COURSES 2021-22



Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALAYA, KALAMB,
Dist.-YAVATMAL
NAAC Accredited B+ Grade

Academic Year 2021-22

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BROCHURE OF THE CERTIFICATE COURSES 2020-21

Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALAYA, KALAMB,
Dist.-YAVATMAL
NAAC Accredited B+ Grade

Academic Year 2020-21

WE OFFER
CERTIFICATE COURSE IN -

ADMISSION
NOW
OPEN

- ✓ VYAVHARIK MARATHI
- ✓ BASICS OF KATHAK
- ✓ COMMUNICATION SKILLS
- ✓ HUMAN VALUES
- ✓ PERSONALITY DEVELOPMENT
- ✓ WOMEN'S HEALTH CARE IN RURAL AREA
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P. B. Mandake
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BROCHURE OF THE CERTIFICATE COURSES 2019-20

Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALAYA, KALAMB,
Dist.-YAVATMAL
NAAC Accredited B+ Grade

Academic Year 2019-20

ADMISSION NOW OPEN

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- ✓ COMMUNUCATION SKILLS
- ✓ HUMAN VALUES
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P. B. Mandake
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Indira Mahavidyalaya
Kalamb Dist. Yavatmal

BROCHURE OF THE CERTIFICATE COURSES 2018-19

Dr. Yashwant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALAYA , KALAMB ,
Dist.-YAVATMAL
NAAC Accredited B+ Grade

Academic Year 2018-19

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- ✓ VYAVHARIK MARATHI
- ✓ BASICS OF KATHAK
- ✓ COMMUNICATION SKILLS
- ✓ HUMAN VALUES
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P. B. Mandekar
PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

NOTICES OF THE CERTIFICATE COURSE

-NOTICE-

Date: 02/07/2022

It is notified that certificate courses will be conducted during the academic year 2022-23 by various course coordinator of the college. The certificate course will be of 32 hours.

The students are advised to go through the following details to benefit from the courses.

Sr. No.	Course	Duration	Course coordinator
1	Certificate Course in Vyavharik Marathi	Aug. 2022	Dr. V.P. Mandavkar
2	Certificate Course in Basics of Kathak	Jul. 2022	Dr. V.P. Mandavkar
3	Certificate Course in Communication skills	Sept. 2022	Prof. P.S. Jawade
4	Certificate Course in Human Values	Sept. 2022	Prof. P.B. Ingale
5	Certificate Course in Personality Development	Aug. 2022	Prof. P.B. Ingale
6	Certificate Course in Women's Health Care in Rural Area	Jul. 2022	Prof. S.Y. Lakhadive
7	Certificate Course in Rural handicrafts	Feb. 2023	Prof. S.Y. Lakhadive
8	Certificate Course in Tourism	Mar. 2023	Prof. N.V. Narule
9	Certificate Course in Panchayat Raj	Jan. 2023	Miss. Bodhekar
10	Certificate Course in Ancient Indian Culture	Sept. 2022	Miss. Ingale
11	Certificate Course in Computer Application	Oct. 2022	Prof. A.V. Tagalpallearwar
12	Certificate Course in Tally	Nov. 2022	Prof. M.P. Rakhunde
13	Certificate Course in E-Commerce	Feb. 2023	Prof. M.P. Rakhunde
14	Certificate Course in Fundamentals of Practical Banking	Nov. 2022	Prof. R.M. Wath
15	Certificate Course in Soil testing	Nov. 2022	Dr. D.M. Chavhan
16	Certificate Course in Basic Chemistry Software	Aug. 2022	Prof. S.R. Khandekar
17	Certificate Course in Green Chemistry	Sept. 2022	Prof. S.R. Khandekar
18	Certificate Course in Household Cleaning Chemicals	Feb. 2023	Dr. D.M. Chavhan
19	Certificate Course in Energy Conservation	Jan. 2023	Dr. K.R. Nemade
20	Certificate Course in Fundamentals of Corrosion Science	Sept. 2022	Prof. S.B. Sangale
21	Certificate Course in Introduction of Basic Electronics	Aug. 2022	Prof. J.M. Bodulwar
22	Certificate Course in Applied Entomology	Aug. 2022	Prof. R.A. Sinha
23	Certificate Course in Environmental Issues and its Awareness	Jan. 2023	Dr. V.R. Patki
24	Certificate Course in Vedic Maths	Mar. 2023	Prof. R.R. Atram
25	Certificate Course in Quantitative Aptitude	Feb. 2023	Dr. V.B. Watkar
26	Certificate Course in Self Defence-Karate	Jan. 2023	Prof. S.S. Raut
27	Certificate Course in Yoga and Meditation	Aug.2022	Prof. S.S. Raut

It is noted that the students should contact the course coordinator for further details.


Co-ordinator
IQAC
Indira Mahavidyalaya
Kalamb


PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

-NOTICE-

Date: 14/06/2021

It is notified that certificate courses will be conducted during the academic year 2021-22 by various course coordinator of the college. The certificate course will be of 32 hours.

The students are advised to go through the following details to benefit from the courses.

Sr. No.	Course	Duration	Course coordinator
1	Certificate Course in Vyavharik Marathi	August 2021	Dr. V.P. Mandavkar
2	Certificate Course in Basics of Kathak	July 2021	Dr. V.P. Mandavkar
3	Certificate Course in Communication skills	September 2021	Prof. P.S. Jawade
4	Certificate Course in Human Values	September 2021	Prof. P.B. Ingale
5	Certificate Course in Personality Development	August 2021	Prof. P.B. Ingale
6	Certificate Course in Women's Health Care in Rural Area	July 2021	Prof. S.Y. Lakhadive
7	Certificate Course in Rural handicrafts	February 2022	Prof. S.Y. Lakhadive
8	Certificate Course in Tourism	March 2022	Prof. N.V. Narule
9	Certificate Course in Panchayat Raj	January 2022	Miss. Bodhekar
10	Certificate Course in Ancient Indian Culture	September 2021	Miss. Ingale
11	Certificate Course in Computer Application	October 2021	Prof. A.V. Tagalpallewar
12	Certificate Course in Tally	November 2021	Prof. M.P. Rakhunde
13	Certificate Course in E-Commerce	February 2022	Prof. M.P. Rakhunde
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25	Certificate Course in Quantitative Aptitude	February 2022	Dr. V.B. Watkar
26	Certificate Course in Self Defence-Karate	January 2022	Prof. S.S. Raut
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It is noted that the students should contact the course coordinator for further details.


Co-ordinator
IQAG
Indira Mahavidyalaya
Kalamb


PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

-NOTICE-

Date: 16/06/2020

It is notified that certificate courses will be conducted during the academic year 2020-21 by various course coordinator of the college. The certificate course will be of 32 hours. The students are advised to go through the following details to benefit from the courses.

Sr. No.	Course	Duration	Course coordinator
1	Certificate Course in Vyavharik Marathi	August 2020	Dr. V.P. Mandavkar
2	Certificate Course in Basics of Kathak	July 2020	Dr. V.P. Mandavkar
3	Certificate Course in Communication skills	September 2020	Prof. P.S. Jawade
4	Certificate Course in Human Values	September 2020	Prof. P.B. Ingale
5	Certificate Course in Personality Development	August 2020	Prof. P.B. Ingale
6	Certificate Course in Women's Health Care in Rural Area	July 2020	Prof. S.Y. Lakhadive
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11	Certificate Course in Computer Application	October 2020	Prof. A.V. Tagalpallewar
12	Certificate Course in Tally	November 2020	Prof. M.P. Rakhunde
13	Certificate Course in E-Commerce	February 2021	Prof. M.P. Rakhunde
14	Certificate Course in Fundamentals of Practical Banking	November 2020	Prof. R.M. Wath
15	Certificate Course in Soil testing	November 2020	Dr. D.M. Chavhan
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23	Certificate Course in Environmental Issues and its Awareness	January 2021	Dr. V.R. Patki
24	Certificate Course in Vedic Maths	March 2021	Prof. R.R. Atram
25	Certificate Course in Quantitative Aptitude	February 2021	Dr. V.B. Watkar
26	Certificate Course in Self Defence-Karate	January 2021	Prof. S.S. Raut
27	Certificate Course in Yoga and Meditation	August 2020	Prof. S.S. Raut

It is noted that the students should contact the course coordinator for further details.


Co-ordinator
IQAC
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PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist.Yavatmal

-NOTICE-

Date: 15/06/2018

It is notified that Certificate courses will be conducted during the academic year 2018-19 by various course coordinator of the college. The certificate course will be of 32 hours. The students are advised to go through the following details to benefit from the courses.

Sr. No.	Course	Duration	Course coordinator
1	Certificate Course in Vyavharik Marathi	August 2018	Dr. V.P. Mandavkar
2	Certificate Course in Basics of Kathak	July 2018	Dr. V.P. Mandavkar
3	Certificate Course in Communication skills	September 2018	Prof. P.S. Jawade
4	Certificate Course in Human Values	September 2018	Prof. P.B. Ingale
5	Certificate Course in Personality Development	August 2018	Prof. P.B. Ingale
6	Certificate Course in Women's Health Care in Rural Area	July 2018	Prof. S.Y. Lakhadive
7	Certificate Course in Rural handicrafts	February 2019	Prof. S.Y. Lakhadive
8	Certificate Course in Tourism	March 2019	Prof. N.V. Narule
9	Certificate Course in Panchayat Raj	January 2019	Miss. Bodhekar
10	Certificate Course in Ancient Indian Culture	September 2018	Miss. Ingale
11	Certificate Course in Computer Application	October 2018	Prof. A.V. Tagalpallewar
12	Certificate Course in Tally	November 2018	Prof. M.P. Rakhunde
13	Certificate Course in E-Commerce	February 2019	Prof. M.P. Rakhunde
14	Certificate Course in Fundamentals of Practical Banking	November 2018	Prof. R.M. Wath
15	Certificate Course in Soil testing	November 2018	Dr. D.M. Chavhan
16	Certificate Course in Basic Chemistry Software	August 2018	Prof. S.R. Khandekar
17	Certificate Course in Green Chemistry	September 2018	Prof. S.R. Khandekar
18	Certificate Course in Household Cleaning Chemicals	February 2019	Dr. D.M. Chavhan
19	Certificate Course in Energy Conservation	January 2019	Dr. K.R. Nemade
20	Certificate Course in Fundamentals of Corrosion Science	September 2018	Prof. S.B. Sangale
21	Certificate Course in Introduction of Basic Electronics	August 2018	Prof. J.M. Bodulwar
22	Certificate Course in Applied Entomology	August 2018	Prof. R.A. Sinha
23	Certificate Course in Environmental Issues and its Awareness	January 2019	Dr. V.R. Patki
24	Certificate Course in Vedic Maths	March 2019	Prof. R.R. Atram
25	Certificate Course in Quantitative Aptitude	February 2019	Dr. V.B. Watkar
26	Certificate Course in Self Defence-Karate	January 2019	Prof. S.S. Raut
27	Certificate Course in Yoga and Meditation	August 2018	Prof. S.S. Raut

It is noted that the students should contact the course coordinator for further details.


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GUIDELINES, MODULES AND
OUTCOMES OF CERTIFICATE
COURSE

Certificate Course in Vyavharik Marathi

INDIRA MAHAVIDYALAYA, KALAMB DIST. YAVATMAL CERTIFICATE COURSE

As the world changes in modern times, the ways of living are changing, and the fields of study are also expanding. More than the traditional curriculum, there is a need for many things related to daily needs. On the same basis, in addition to the courses planned by the university, the following courses have been started with the aim of providing these certificate courses to the students which will help them in their personality development and official work.

The first certificate course "Practical Marathi" (व्यावहारिक मराठी) is an important course from the point of view of personality development and employment of students. Also the second certificate course 'Basic of Kathak Nrutya' (कथक नृत्याचे प्राथमिक ज्ञान) will nurture their personality along with their hobby. Their knowledge about Indian classical dance will be deepened.

Guidelines for Conducting Certificate Course

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee. The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/ vacation period.
- A student will be permitted to register only one Certificate Course in a Semester.
- The certificate course can be offered only if there are at least 30 students opting for it. • The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

**Course Curriculum for
Certificate Course
In
Functional Marathi (व्यावहारिक मराठी)
COURSE DURATION: 32 Hrs
COURSE COORDINATOR: Dr. Veera Mandavkar**

Objectives:

- 1 To develop linguistic skills and abilities at various levels.
2. Explain the formal and informal sector-wise nature of language interaction
3. Acquiring language skills for personality development
4. To explain the nature of media and the nature of language communication for it
5. To explain the nature of literary transactions and publishing business
6. To explain the concept of Marathi standard language writing and print research and make practical implementation
7. Able to use interview writing techniques and skills
8. Practical application of application writing and letter writing
9. To give theoretical and practical knowledge of translation

उद्दिष्टे

१. विविध स्तरावरील भाषिक कौशल्ये व क्षमता विकसित करणे
२. भाषाव्यवहाराचे औपचारिक आणि अनौपचारिक क्षेत्रनिहाय स्वरूप समजावून देणे
३. व्यक्तिमत्त्व विकासासाठी भाषिक कौशल्ये आत्मसात करणे
४. प्रसार माध्यमांचे स्वरूप व त्यासाठी भाषाव्यवहाराचे स्वरूप समजावून देणे
५. वाङ्मयीन व्यवहार व प्रकाशन व्यवसायाचे स्वरूप समजावून देणे
६. मराठीच्या प्रमाणभाषेचे लेखन व मुद्रितशोधन या संकल्पना समजावून प्रत्यक्ष उपयोजना करणे
७. मुलाखत लेखनाची तंत्रे व कौशल्ये यांचा वापर करता येणे
८. अर्ज लेखन व पत्रलेखनाचा व्यावहारिक वापर करता येणे
९. भाषांतर आणि अनुवादप्रक्रिया यांची तात्त्विक व व्यावहारिक माहिती देणे
१०. निवेदन कौशल्याची तात्त्विक व व्यावहारिक माहिती देणे
११. जनसंपर्क कौशल्याची आवश्यकता समजावणे व त्याच्या वापराची तंत्रे अंगीकृत करणे


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अभ्यासक्रम व्यावहारिक मराठी

१ कार्यालयीन पत्रव्यवहार — ४ तासिका

- १ इतिवृत्त
- २ अहवाल लेखन
- ३ प्रशासनिक पत्रव्यवहार
- ४ स्वपरिचयपत्र

२ मुलाखत — ४ तासिका

- १ मुलाखतीचे स्वरूप, तंत्र व कौशल्ये
- २ मुलाखतीचे प्रकार
 - अ. माध्यमनिहाय मुलाखती
 - ब. विषयनिहाय मुलाखती

३ मुलाखतीची पूर्वतयारी

- अ. मुलाखतीची प्रश्नसूची
- ब. मुलाखत लेखन

३. भाषांतर व अनुवादलेखन

- १ भाषांतराचे स्वरूप
२. भाषांतराची आवश्यकता व महत्त्व
३. भाषांतराचे विविध प्रकार
- ४ इंग्लिश आणि हिंदी उता—याचे मराठीत भाषांतर करणे

४ निवेदन कौशल्य

- १ निवेदनाचे स्वरूप
 - अ. निवेदनाची तंत्रे
 - ब. निवेदनाची शैली
- २ निवेदनाची आवश्यकता
- ३ सूत्रसंचालन
 - अ. आकाशवाणी
 - ब. दूरदर्शन
 - क. सांस्कृतिक कार्यक्रम
 - ड. जाहीर कार्यक्रम

५ निमंत्रणपत्रिका व कार्यक्रमपत्रिका

१. स्वरूप
२. व्याप्ती
३. भाषा
४. घ्यावयाची काळजी

६ मराठी शुद्धलेखनाचे नियम व विरामचिन्हे

- १ ऱ्हस्व — दीर्घ संबंधीचे नियम
- २ अनुस्वार लेखन
- ३ जोडशब्द
- ४ विरामचिन्हे

७ प्रसारमाध्यमांसाठी लेखन

- १ वृत्तपत्रलेखन
- २ नभोवाणीसाठी लेखन
- ३ दूरदर्शनसाठी लेखन
- ४ माहितीपटांसाठी लेखन

८ इ-प्रसारमाध्यमांसाठी लेखन

- १ ब्लॉगलेखन
- २ टिव्टरसाठी लेखन
- ३ युट्युब विडीओसाठी लेखन
- ४ वेबसाईटवरील लेखन

Course Outcomes:

- Students will gain knowledge of different levels of linguistic skills.
- Understand the formal and informal sector-wise nature of language interaction.
- Their personality will develop.
- The format of the media and their language will be assimilated.
- Student will get information about interview writing, application writing, office correspondence.
- Communication skills will be developed.
- Student will get information about book deals and publishing.
- Learn about standard language writing and typography.

Reference Books:

- 1 मराठी भाषिक कौशल्ये विकास - संपादक - डॉ. पथ्वीराज तौर, अथर्व पब्लिकेशन, धुळे
- 2 मराठी भाषा कौशल्ये आणि व्यवसायाच्या संधी - सुनिता सांगोले
- 3 व्यावहारिक मराठी - डॉ. लीला गोविलकर, डॉ. जयश्री पाटणकर, स्नेहवर्धन प्रकाशन, पुणे
- 4 उपयोजित मराठी - डॉ. ग.ना. जोगळेकर, संपा. केतकी मोडक, पद्मगंधा प्रकाशन, पुणे
- 5 उपयोजित मराठी व प्रसारमाध्यमांची कार्यशैली, संपा. डॉ. संदिप सांगळे, डायमंड पब्लिकेशन, पुणे


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Certificate Course in Basics of Kathak

Course Curriculum for Certificate Course in

Basics of Kathak (कथक नृत्याचे प्राथमिक ज्ञान)

Course Duration: 32 Hrs

Course Coordinator: Dr. Veera Mandavkar

Objectives

- 1 To introduce ancient Indian classical dance.
- 2 To shed light on Indian culture.
- 3 To introduce the beauty of dance and various techniques of performance.
- 4 To introduce the distinctive costumes worn during classical dance performances.
- 5 Personality development through dance.
- 6 To build self-confidence in students.
- 7 Cultivating interest in choreography.
- 8 Creating employment through choreography.

उद्दिष्टे

- १ प्राचीन भारतीय शास्त्रीय नृत्यकलेचा परिचय करून देणे.
- २ भारतीय संस्कृतीवर प्रकाश टाकणे.
- ३ नृत्यातील सौंदर्य आणि सादरीकरणातील विविध तंत्रे अवगत करून देणे.
- ४ शास्त्रीय नृत्यसादरीकरण करताना परिधान केल्या जाणारया वैशिष्ट्यपूर्ण वेशभूषेचा परिचय करून देणे.
- ५ नृत्याद्वारा व्यक्तिमत्त्व विकास करणे.
- ६ विद्यार्थ्यांमध्ये आत्मविश्वास निर्माण करणे.
- ७ नृत्यदिग्दर्शनाची आवड निर्माण करणे.
- ८ नृत्यदिग्दर्शनाद्वारे रोजगार निर्माण करणे.

१ कथक नृत्याचा इतिहास — ४ तासिका

- १ पार्श्वभूमी
- २ पौराणिक संदर्भ
अ. रामायण
ब. महाभारत

२ कथक नृत्यातील प्रसिद्ध व्यक्ती — ४ तासिका

- १ पंडित बिरजू महाराज
२. तारादेवी
- ३ पंडित गोपीकृष्ण
- ४ पंडित बिंदादिन

३ कथक नृत्यातील मुख्य परिभाषा — ४ तासिका

- १ मात्रा
- २ सम
- ३ लय
- ४ तत्कार

४ ताल त्रिताल परिचय — ४ तासिका

- १ ताल त्रिताल मात्रा विभागणी
- २ एगुन दुगुन हातावर म्हणून दाखविणे

३ चौगुन अठगुन हातावर म्हणून दाखविणे

४ त्रिताल लिपीबद्ध करणे

५ ताल त्रिताल प्रात्यक्षिक – ४ तासिका

१ तत्कार एगुन, दुगुन, चौगुन पायावर दाखविणे

२ साधा तोडा

२ चक्करदार तोडा

३ परण

६ ताल झपताल माहिती – ४ तासिका

१ ताल झपताल मात्रा विभागणी

२ एगुन दुगुन हातावर म्हणून दाखविणे

३ चौगुन अठगुन हातावर म्हणून दाखविणे

४ झपताल लिपीबद्ध करणे

७ ताल झपताल प्रात्यक्षिक – ४ तासिका

१ साधा तोडा

२ चक्करदार तोडा

३ परण

४ कवित्त

८ सादरीकरण – ४ तासिका

१ हस्तमुद्रा

अ. संयुक्त हस्तमुद्रा

ब. असंयुक्त हस्तमुद्रा

२ माखनचोरी

Course Outcomes:

- Student will get information about the ancient dance form of India.
- Indian culture will be introduced.
- Beauty and skill in dancing will be recognized.
- The self-confidence of the student will increase.
- Interest in choreography will develop.
- Employment will be created through dance direction.

Reference Books:

- 1 Kathak Nritya Shiksha (Part 1)” by Dr. Puru Dadheech
- 2 Kathak Nritya Shiksha (Part 2)” by Dr. Puru Dadheech
- 3 Kathak Gyaneshwari - Pandit Tirathram Azad, published in 1975
- 4 “Natya Shastra” - Bharat Muni 5th century BC.
- 5 Kathak Darpan – Aacharya Nandikeshwara


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Certificate Course in Communication Skills

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Prof. P.S. Jawade

GUIDELINES FOR CERTIFICATE COURSE

The English today is the most preferred language for international communication in various fields. It is also the most widely used language on internet and in the media. It is therefore, not surprising that excellent communication skills and sound knowledge of English are prerequisite for employment in many field.

The English Department of Indira Mahavidyalaya, Kalamb, is committed to make the students able to speak, write, read and listen in English language and dedicated to the primary goals to imbibe the communicative skills of language in rural and tribal students.

In view of this, Department of English Indira Mahavidyalaya, Kalamb Dist. Yavatmal decided to offer certificate course in Communication skills in English.

1. Objectives

The main objectives of the Certificate Course are:

- To generate the ability to acquire English language skills.
- To make the students to develop the practical and creative grasp of the English language
- To develop the students' competencies necessary for composition of English language components.
- To exercise the communicative skills and oral presentations, assignments for the enhancement of English language among the students.
- To make participative in discussion by listening to other and articulate the ideas.

Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students can opt and the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/ vacation period.
- A student will be permitted to register Certificate Course in a Semester/academic year
- The certificate course is offered first come first serve basis.
- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.


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CERTIFICATE COURSE IN COMMUNICATION SKILLS IN ENGLISH

Unit I

8 hrs

Nature and Scope of Communication
A Modes of Communication
I Verbal Communication.
II Non Verbal Communication
Principles of Effective Communication
I Definition
II Developing Effective messages
III Barriers of Communication

Unit II

8 hrs

Vocabulary and Usage
I Synonyms
II. Antonyms
III Prefix and Suffixes
IV One word Substitution
V Words often confused

Unit III

8 hrs

Sentence Structure
I. Tenses
II Basic Sentences and their types
a. Declarative
b. Interrogative
c. Imperative
d. Exclamatory
e. Assertive
Active voice and passive Voice
Reported Speech

Unit IV

8 hrs

Self-Introduction
Greetings and Salutations
Seeking permission
Complaints and Apologies


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COURSE OBJECTIVE:

- CO 1. To develop reading skills.
- CO2. To develop writing skills
- CO3. To develop speaking skills
- CO4. To develop listening skills
- CO5. To understand grammatical items.
- CO6. To know the format of letter writing.

COURSE OUTCOMES:

By completion of this course students will be able to

- CO1. To enhance the reading skills.
- CO2. To develop writing skills
- CO3. To develop speaking skills
- CO4. To develop listening skills
- CO5. To understand rules of Grammar
- CO6. To learn the skill of conversation
- CO7 To understand and interpret the media writings and public discourse.

- To pursue advanced studies in English and communication fields.
- To make and deliver written, oral presentation in various sectors. Thus, this course enables the students to become the master's in communication skills in the English language. The students can opt to become, announcers (at the railway stations, aerodromes and even on radio jockey or TV reporter) and may work in government services and in judiciary on various prestigious posts. They can have opportunities to join MBA and Indian Railway Board etc for entering government services. They have also scope in journalism, tourism, judiciary (Law), clerical exams, probationary officers, banking etc.

BOOKS RECOMMENDED:

- A Book in English Grammer – R. N. Bakshi
- Written Communication- Sarah Freeman
- Professional Communication Skills- Pravin, S. R. Bhatia
- Business Communication – Asha Kaul
- Write Right – Sarita Manjua
- Write to Communicate – Geeta Nagraj
- Communication Skills- Prof. B.V. Pathak
- Script to Screen - Sharada Kaushik
- Mastering Business English Office -Routing
- English Language – Dr. K.N. Joshi
- The growth and structure of English language –Prof. Anna Kurian
- Articles on Globalization- The Indian Express Hitwada
- Dr. K.N. Joshi: English Language
- Prof. Anna Kurian: The growth and structure of English language
- Lyons 1981 language and Linguistic


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Certificate Course in Human Values

Course coordinator- Dr. P. B. Ingle (Department of Psychology)

Course Duration – 32 hours

Number Student Admitted for the Course is 30.

Course Outline:

The purpose of this course is to explore human values. Students will be exposed to dilemmas of transcendence and social transformation. This course is interdisciplinary and draws material from psychology, Sociology, Environment science and Political Science.

Students will be able to develop a practical thinking of social transformation, which aims at creating a just order in which all are life satisfied.

If continuous happiness is the human aspiration, then there should be a human values program to fulfill basic human aspirations. To implement this program in practice we need harmony in the self, in family and in the society,

Students will be expected to improve vision of holistic approach toward personal and social and develop a universal approach to human values on natural acceptance to all, Mutual fulfillment and co-existence.

Course Out comes:

1. To understand and adopt moral, social, industrial and professional ethics.
2. Will understand universal order of human relationship.
3. To demonstrate professional competencies.


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INDIRA MAHAVIDYALAYA KALAMB, DIST YAVATMAL
Syllabus of Human Values

This certificate course comprises of 30 Lectures of 1 Hour each.
Final exam will consist of 50 Marks.

UNIT I -Introduction to Human values.	10 Marks
<ul style="list-style-type: none">• Definition, scope and importance.• Self-exploration• Continuous happiness and prosperity• Understanding human aspiration	
UNIT II –Understanding in Harmony in Human being	10 Marks
<ul style="list-style-type: none">• Understanding needs of self I and Body –sukh suvidha• Understanding characteristics of self.• Understanding physical needs of I(Physical health)	
UNIT III –Human values of Human relationship	10 Marks
<ul style="list-style-type: none">• In Family – basic unit of human interaction• Understanding human values in social health• Foundational values of relationship-Trust & Respect	
UNIT IV - Human values Nature	10 Marks
<ul style="list-style-type: none">• Understanding values in Nature• Interconnected and Mutual fulfilment among recyclability and self –regulation in nature	
UNIT V –Implication of Human values in professional Ethic	10 Marks
<ul style="list-style-type: none">• Natural acceptance of Human values• Definitiveness of Ethical human conduct• Competences in professional ethic: abilities – to utilize professional competence for universal human order, to identify the scope and characteristics of people-friendly and eco-friendly production system and develop appropriate technology and management system for the production.	

Reference Books & Other Material:

- 1) Social Psychology
- 2) Snooks, Margaret Konz, Health Psychology: Biological, Psychological and Sociocultural Perspectives, Boston: Jones and Bartlett Publishers, 2009, p. 216.
- 3) Mike, W, Martin, “Paradoxes of Happiness”, Journal of Happiness Studies, 2008, pp. 171-184.
- 4) O’ Dea, Thomas F, The sociology of Religion, Englewood cliffs, N. J.: Prentice Hall, 1966.
- 5) Shrinivas, M. N. ‘Social Change in Modern Inda’, Berkeley: California University Press, 1966.
- 6) Applied Psychology: Dr. Sau. Nisha Dilip Mundada, Associate Prof. Satish Surye, Atharva Publication, Dhule


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Certificate Course in Personality Development

INDIRA MAHAVIDYALYA, KALAMB DIST. YAVATMAL GUIDELINES FOR CERTIFICATE COURSE

Personality Development

In this course of personality development, you will master all skills related to how work on your own personality for your successful and bright future. Personality is the relatively enduring pattern of thoughts, feelings, and behaviors that distinguish individual from one other. The view of field of the personality development holds that personality emerge early and continues to change meaningful ways through ought the lifespan.

The essential of this course is great for the individual who is striving for success in life, anyone who wants to do something different than others. Because personality development is key ingredient in becoming success in your personal and as well as professional life. Everyone wants a nice car and a dream home for their family, but there is certain level of confidence and belief that is needed to make it happened. \

Benefits of personality development:

When you work on it the first thing you develop the high level of confidence, you become self – aware about your weakness and strengths. You realize that which belief hold you back and how you can replace them with powerful beliefs. Your attitude towards life and people becomes more positive which make you healthy and happy, you are in a constant state of joy. You not only become good at setting your goals but getting your goals by acting on them and learning from the failures along the way. Each day you live your life in accordance with your values which gives you a deep sense of inner alignment. You can use more of your conscious and subconscious mind power. Your earnings multiply and you become more prosperous. You can effectively manage your time, emotions and stress. You emerge as a natural leader as you can effectively communicate with yourself and others. As you become more competent your employability and career option increase. It will give you lifelong security, respect and peace of mind.

Objectives:

- To strengthen knowledge and personality skills among students for their happy and healthy life beyond the curriculum.
- To make students know about self-awareness, life skills, soft skills, need for personal development.
- To provide the opportunity to become public speaker, leadership, express attitude etc. through various activities and program of this course.

Course Designing:

The department of psychology has designed the two certificate courses according to the discussion with heads of the institution and faculty members. And taking into the consideration of current advancement and demand of the educational stakeholders such as parents and students.

Guidelines for conducting Certificate Course:

This is a teacher assisted learning course open to all students with any additional fee. Only 30 students will be admitted in this course. The students should opt out and choose the certificate course of their choice to gain extra- knowledge in his/her interest. After successfully completion and evaluation, the certificate will be awarded to student by the Institution.

The following are the guidelines for the conduct of the Certificate Course:

- ❖ Classes of this course will be conducted during the reserved time slot in a week or beyond the regular class hours.
- ❖ A student will be permitted to register only one certificate course in a semester.
- ❖ The Certificate course can be offered only if there are at least 30 students opting for it.
- ❖ The test will be conducted for 50 Marks.
- ❖ The Marks distribution shall be 20% for attendance, 80% for evaluation the completion of the course.
- ❖ Minimum 75% attendance and 50 Percent Marks are mandatory for award of certificate.


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INDIRA MAHAVIDYALYA, KALAMB DIST. YAVATMAL

Course Curriculum

Personality Development

Course Duration: 32 Hrs

Course Coordinator: Dr. P. B. Ingle

UNIT – 1 Introduction of Personality Development (8 hrs)

- 1.1 Concept of Personality
- 1.2 Dimension of personality
- 1.3 Theories of Personality to Freud & Erikson – significance of personality development.
- 1.4 Concept of success and failure- what is success? Hurdles in achieving success, causes of failure, factors responsible for success, SWOT Analysis.

UNIT – 2 Attitude and Motivation (6 hrs)

- 2.1 Attitude - Concept - Significance - Factors affecting attitudes –
- 2.2 Positive attitude – Advantages –Negative attitude- Disadvantages - Ways to develop positive attitude - Differences between personalities having positive and negative attitude.
- 2.3. Concept of motivation - Significance – Internal and external motives
- 2.4 Importance of self- motivation- Factors leading to de-motivation

UNIT - 3 Self-esteem: (6 hrs)

- 3.1 Term self-esteem, three meaning of self –esteem, Measuring self –esteem.
- 3.2 The Nature and Origin of self-esteem- Affective, cognitive, sociological model of Self-esteem.
- 3.3 Interpersonal Relationships – Defining the difference between aggressive, submissive and assertive behaviors - Lateral thinking.
- 3.4 Implication and Reflection – self enhancement and self-consistency, Global self-esteem and specific self-evaluation.

UNIT - 4 Other Aspects of Personality Development: (8 hrs)

- 4.1 Verbal and nonverbal Communication - Body language
- 4.2 Problem-solving and Decision-making skill
- 4.3 Conflict and Stress Management, Time management
- 4.4 Leadership and qualities of a successful leader – Character building
- 4.5 Team-work Work ethics –Good manners and etiquette.

UNIT - 5 Employability Quotient: (6hrs)

- 5.1 Resume building
- 5.2. The art of participating in Group Discussion
- 5.3 Facing the Personal (HR & Technical) Interview -Frequently Asked Questions - Psychometric Analysis - Mock Interview Sessions.

Course Outcomes:

The students will be able to understand, analyze, develop and exhibit the current sense of life. They will also be able to understand personality better and be able to make effective changes to improve their life. They are also able to understand their strengths and weakness and able to use knowledge gained in this course to interact with others individual in a more confident and effective manner.

Text Books:

1. Hurlock, E.B (2006). Personality Development, 28th Reprint. New Delhi: Tata McGraw Hill.
2. Stephen P. Robbins and Timothy A. Judge (2014), Organizational Behavior 16th Edition: Prentice Hall.

Reference Books:

1. Andrews, Sudhir. How to Succeed at Interviews. 21st (rep.) New Delhi. Tata McGraw-Hill 1988.
2. Heller, Robert. Effective leadership. Essential Manager series. Dk Publishing, 2002
3. Hindle, Tim. Reducing Stress. Essential Manager series. Dk Publishing, 2003
4. Lucas, Stephen. Art of Public Speaking. New Delhi. Tata - Mc-Graw Hill. 2001
5. Mile, D.J Power of positive thinking. Delhi. Rohan Book Company, (2004).
6. Pravesh Kumar. All about Self- Motivation. New Delhi. Goodwill Publishing House. 2005. 7. Smith, B . Body Language. Delhi: Rohan Book Company. 2004

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PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

Certificate Course in Women's Health Care in Rural Area

Indira Mahavidyalaya, Kalamb Certificate Course in Women's Health Care in Rural Area

Duration – 32 Hours

Course Coordinator- Prof. S. Y. Lakhadive

As Indira Mahavidyalaya is situated in rural region so all girls and the women in family does not have awareness regarding their health and hygiene. Because of which they all not able to take proper care and hygiene precaution which are necessary for the healthy lifestyle of themselves and their family members. The cleanliness is very poor in rural public which is the root cause for their ill health. Rural people do not have proper habits for toilets. They go in open field for toilets which may result in defecation. It contaminates soil which becomes the cause of spread of many diseases ultimately resulting in illness. Rural people have lack of knowledge about the benefits of living in fresh air, good light, proper ventilations, hygienic Cooking, storage of food and hygienic disposal of waste material. The rural environment also has improper drainage system and stagnant water which give rise to many diseases.

Being a senior graduation college maximum girls student are of our college studying various courses. The main motive of introducing this course is to make. These girls aware about importance of health and to make them adopt all possible ways to maintain a healthy lifestyle of themselves and their family members. Educating girls and women importance of healthy lifestyle. Ultimately results them to take care of themselves during pregnancy and maintain a nutrition and healthy diet for their children and family members.


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Certificate Course in
Women's Health Care in Rural Area

Aims:

- To endorse the adoption of healthy standard of living among women breathing in society.
- Develops implements and evaluates a health awareness which increases rate of healthy eating and exercise which ultimately increases knowledge on healthy eating and nutritious diet.
- Focuses attention on women's health education which gives awareness on childcare, literacy education widening opportunities for employment and training. So that they receive sufficient attention and recourses from a variety of sections of society.

Objectives:

- Educating women to be more health responsive and ashore in their own health responsibilities as well as their family.
- Encouragement of research and development in the field of women's health and well – being.
- Creation of awareness among women about healthy living and nutritious diet for themselves and for their family members.
- Health disease women of the population makes changes to their disposition towards health disease, gender-based violence and drug abuse.

Course Outcomes:

- Strengthening health systems power, association and management based on primary health care approach.
- Addresses the communal and environmental determinants for enhanced health outcomes.
- Reduces the burden of illness and syndromes.
- Enhances family and community wellbeing.
- Ability of Leadership and Management quality which leads to healthier and progressive life.
Increases expectancy of life and quality of life of female population.


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Certificate Course in
Women's Health Care in Rural Area

Unit – I: Maternal Health

- ❖ Women Reproductive system
- ❖ Strategic to improve and take care of health during maternity.
- ❖ Nutrition During Pregnancy, Balanced diet for lactating mother

Unit – II: Awareness regarding Nutritious Diet

- ❖ Introducing of Nutrition; Concept and definition
- ❖ Significant role of Nutrition in healthy life
- ❖ Occurrence of Common nutritional disorders among rural women and infants
- ❖ Preventive measures to avoid nutrition disorder in rural women and infants.

Unit – III: Malnutrition

- ❖ Malnutrition Concept Definition and Symptoms
- ❖ Disorder associated with Malnutrition in rural women and their children.
- ❖ Awareness about Malnutrition and vital role of diet for the victims of malnutrition

Unit –IV: Health Education

- ❖ Awareness of women health in rural area
- ❖ Role of women in population control
- ❖ Awareness in Girl's health education

Unit –V: Nutrition during different stages

- ❖ Nutrition During Pregnancy
- ❖ Balanced diet for lactating mother
- ❖ Balanced diet for Childhood, Youth period & Adulthood

References:

- M. Walter: "Population and poverty current status and future approaches", Adhyayan Publishers and distributors, New Delhi 2004.
- Usha Sharma: "Women education in modern India", Commonwealth Publishers, New Delhi 1995.
- Shukla P. K: "Nutritional problems of India", New Delhi: Prentice Hall of India, 1982


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Certificate Course in Rural Handicrafts

INDIRA MAHAVIDYALAYA KALAMB DIST. YAVATMAL

Certificate Course in RURAL HANDICRAFTS

Duration – 32 Hours

Course Coordinator- Prof. S. Y. Lakhadive

Aims: -

The People engaged in handicraft production aimed to satisfy the needs of their own economy. However, with the development of commodity-money relation, an increasing number of goods produced by them began to be supplied to the market.

Objectives: -

- ❖ The Ministry of Textiles, Govt. of India recognizes the potential of the handicrafts sector and thereby aims to develop an independent Policy on Handicrafts of India for effectively addressing the key needs and gaps of this sector.
- ❖ The handicrafts sector plays a significant and important role in the country's economy, substantially contributing to large-scale employment generation and exports.
- ❖ It also constitutes the cultural lifeline of the country and represents its rich heritage. The vision of the Policy is to create, support and sustain an enabling environment for the development and growth of the handicrafts sector and for generating sustainable livelihood of thousands of artisans across the country.
- ❖ To enable the students to achieve the self-employment through handicrafts.
- ❖ To promote the Indian rural handicrafts

Course Outcomes:

- ❖ handicrafts are often seen as a developmental opportunity and are incorporated into the developmental plans of (marginal) rural areas.
- ❖ people living in these areas had to find additional sources of income if they wanted to survive.
- ❖ It not only offers a livelihood to millions of artisans but also plays a significant role in preserving India's diverse cultural heritage.
- ❖ This provides not just employment but also a path to financial independence and social respect for women in patriarchal rural settings.


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INDIRA MAHAVIDYALAYA KALAMB DIST. YAVATMAL
Certificate Course in
RURAL HANDICRAFTS
Duration – 32 Hours

Duration – 32 Hours

Course Co-Ordinator- Prof. S. Y. Lakhadive

Course Modules:

Unit -1 Introduction

Introduction to Rural Handicraft, Classification of Handicrafts, Handloom textiles, Handprinted textiles, Jewelry and gems, Carpets and other floor covering, metal crafts, woodwork, embroidery and shawls

Unit-2 Cane and Bamboo Work

Cane- Bamboo work of Manipur, Kerala, Maharashtra, & Himachal Pradesh

Unit-3 Regional Embroidery

Fabric type, designs

Beed work, Glass work, Kantha work, Kashmiri work, Applique work, Kachhi Work

Unit-4 Preparation of paper material to be used –

Handmade articles, paper bags

Unit- 5 Practical

Embroidery Samples with any one Regional Embroidery

Making Cane and Bamboo work

Making Paper Bag & Flower

REFERENCE BOOKS

Regional Embroidery- Savitri Pandit

कागद आणि कलाकुसर – अ. दि. पोकळ प्रकाशक साहित्य प्रसार केंद्र, नागपूर

कला छंद – प्रतिभा काळे, रोहन प्रकाशन, नारायण पेठ, पुणे


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Certificate Course in Tourism

INDIRA MAHAVIDYALYA, KALAMB
DIST. YAVATMAL

GUIDELINES FOR CERTIFICATE COURSE

Tourism today is one of the fastest growing industries through the world and its study is of increasing academic and of practical interest. This activity is very much important since people from all classes of society participate in it, over all the countries of the world. With Tourism and Travel becoming an important area of activity, there is a need of Business Managers who can handle and promote this trade.

In view of this, Indira Mahavidyalaya, Kalamb Dist. Yavatmal decided to offer following certificate course.

1. Certificate Course in Tourism

1. Objectives: -

The main objectives of the Certificate Course are:

- To create awareness among the students about this growing industry in our country.
- To impart to the student's up-to-date relevant knowledge of this trade.
- To generate opportunities of self-employment.
- To assess a few destinations to have a practical experience.
- To get actual experience of tour management by excursion tours.
- To help this growing industry in Maharashtra.

2. Course Designing: -

The department has designed one certificate course in discussion with the heads and other members after taking into consideration the current advancements in relevant fields and industrial demands.

3. Guidelines for Conducting Certificate Courses: -

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate course may be also conducted during weekends/vacation period.
- A student will be permitted to register only one Certificate Course in a Semester.
- The certificate course can be offered only if there are at least 30 students opting for it.
- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.

- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

COURSE OUTCOMES: -

- Tourism has very bright future. It is now recognized as an activity generating a number of social & economic benefits.
- It promotes national integration and international understanding creates employment opportunities.
- It gives support to local handicrafts and cultural activities, also generates considerable amount of tax revenue.
- All these benefits are achieved with relatively low investment.
- Therefore, course in tourism and travel management is most applied and useful at present.

These outcomes collectively prepare students to contribute effectively to tourism & travel management.

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INDIRA MAHAVIDYALYA, KALAMB
Certificate Course in
TOURISM

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. N. V. Narule

COURSE MODULES:

Module- 1: - Management (8h)

- ❖ Meaning, Nature & Functions (Scope) of Tourism.
- ❖ Types of Tourism.
- ❖ Tourism Management.
- ❖ Importance of Tourism Marketing.

Module- 2: - Historical & Cultural Background of India (8h)

- ❖ Brief History of India.
- ❖ Religions of Indian Origin.
- ❖ Costumes & Festivals of India.
- ❖ Growth of India Arts and Architecture.

Module- 3: - Indian Tourism (8h)

- ❖ Importance.
- ❖ History and growth of domestic tourism.
- ❖ Main centers of Tourist interest.
- ❖ Seasons for travel to different tourist centers.
- ❖ Maharashtra Tourism Development Corporation introduction.

Module- 4: - Practical (8h)

- ❖ Field Visit Report & Viva-Voce shall be based on the above syllabus.
- ❖ Field Visit report submitted by the candidate based on the Field Work experience shall be assessed by Internal Examiner & Head of Department.

BOOKS RECOMMENDED: -

- Tourism in India (2001) - Ramachary
- Tourism in India, History & Development - Bhatia A. K.
- Handbook of Tourism - Puri G. K.
- Successful Tourism Management – Pran Seth
- Basics of Tourism – Kamra Krishna K.
- India – A Tourist Paradise – Das Manoj
- Travel & Tourism Management – Foster Douglars
- Tourism, Museum & Monuments in India – Dr. Gupta


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Certificate Course in Panchayat Raj

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in Panchayat Raj

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. Minakshi Bodhekar

Objectives: -

- 1) Understand the Indian Panchayat Raj system
- 2) To understand the working process of the Indian urban and rural local self-government
- 3) Enable the students to acquire additional skills to enhance their own repute and political career.

Guidelines for Conducting Certificate Courses: -

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate course may be also conducted during weekends/vacation period.
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- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

Course outcome: -

- 1) They will be able to understand the working of Panchayat Raj system
- 2) Gain knowledge about leadership qualities.
- 3) They will be able to understand the importance and working of local bodies.

Course content: -

- 1)
 - i) The Genesis of Local Self Government
 - ii) 73rd Constitutional Amendment Act 1993
 - iii) 74th Constitutional Amendment Act

- 2) Committees
 - i) Balwant Roy Mehata committee
 - ii) Ashok Mehata committee
 - iii) Hanumantha Rao committee
 - iv) G.V.K. Rao committee
 - v) L.M Singhavi Committee
 - vi) P.K. Thungan Committee
- 3) Gram Panchayat, Taluka Panchayat and Zila panchayat
- 4) Development activities undertaken by the state and the central government

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Certificate Course in Ancient Indian Culture

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in Ancient Indian Culture

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. Pushpanjali Ingale

Aims and objectives:

- 1) Study of cultural history of India
- 2) Understanding various phases in and the process of evolution of Indian culture
- 3) Review of theoretical framework in which the Indian culture has been understood by the students.

Guidelines for Conducting Certificate Courses: -

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
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- A student will be permitted to register only one Certificate Course in a Semester.
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- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

Course Outcomes:

This course offers -

- 1) Synthesis of wider and deeper approach to the study of the relevant topic.
- 2) A variety of learning activities.

Course Module:

Unit -1

- 1) Introduction and definition of ancient Indian culture
- 2) Neolithic cultures of Afghanistan Balochistan and Jammu Kashmir Valley
- 3) The Neolithic cultures of the Vindhya Eastern India and Northeastern India

Unit 2

Harappan civilization

- 1) Origin extends
- 2) Socio economic religious and cultural life
- 3) Script and decline

Unit 3

Vedic culture

- 1) Society, polity, economy, and religious life in pre-Vedic period
- 2) Society, polity, economy, and religious life in post-Vedic period


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Certificate Course in Computer Application

**INDIRA MAHAVIDYALAYA, KALAMB
DIST. YAVATMAL**

Certificate Course in computer Application

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Prof. A.V.Tagalpallewar

POLICY/ GUIDELINES FOR CERTIFICATE COURSE

The Computer Applications teaches students about many facets of computer technology and how they relate to business and other sectors. Computer Application students an understanding of the fundamentals of commerce, such as accountancy, economics, computer applications, and computer technology in the workplace. Students will be conversant with computer programming, input/output devices, hardware/software, and the ideas of commerce after finishing the course. This programme is designed to educate students to all of the major features of computer applications while also preparing them for careers in the IT and commerce sectors. Considering all these things institution offers certificate course in computer application.

1. Objectives

The main objectives of the Certificate Course are:

- To generate the ability to acquire computer skills.
- To make the students enable to know the basic of computer application
- To develop the students competencies about computer application.
- To make participative in computer learning and articulate the ideas.

Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum.

The students can opt and the certificate courses of their choice to gain additional knowledge in his/her interest.

After successful completion and evaluation, the certificate will be awarded to student by the Institute.

Teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/ vacation period.
- A student will be permitted to register Certificate Course in a Semester/academic year
- The certificate course is offered first come first serve basis.
- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and will be maintained by the respective course co-ordinator.
- The test will be conducted to evaluate the students.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

COURSE OUTCOMES:

- CO 1. To develop computing skills.
- CO2. To enhance the knowledge about computer application
- CO3. To know the basic of computer and its application
- CO4. To understand the overall computer functioning
- CO5. To refresh the computer for long use
- CO6. To know the internet application and its usage.

With continuous inventions and upgrades in technologies, there is a constant demand for professionals with computer background. A career in Computer Application has become a popular choice for students after 12th, especially for those, who are looking for job-oriented courses that can be completed in a short period of time this course help to gain efficient knowledge in lesser time and opens opportunities quickly.

BOOKS RECOMMENDED:

- Introduction to computer application Meri Pustak .com
- Computer Science and application Toppnotes
- Computer application
- Computer application and Management
- Computer application for allied health science
- Computer application in business

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**Course Curriculum for
CERTIFICATE COURSE IN Computer Application
COURSE DURATION: 32 Hrs**

Unit I

8 hrs

Nature and Scope of Computer Application

MS Office Applications General understanding of operating computer applications, uploading and moving files into folders, etc.

Principles of Computer Application

Computer Application helps in learning MS Office applications in depth to brush up your knowledge about the essential tools.

Unit II

8 hrs

Computer Application equips you with all the knowledge of PC assembly which is a modular type of computer. Assembling hardware components to make a customized computer is one of the main components.

Unit III

8 hrs

To protect computer systems from external theft, hardware damage, or internal data issues, IT security has been made a part of the DCA syllabus.

Unit IV

8 hrs

To develop general understanding the functioning of Software and hardware


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Certificate Course in Tally

INDIRA MAHAVIDYALAYA, KALAMB DIST.YAVATMAL

Certificate course in Tally

Course Duration: 32 Hrs Course

Coordinator: Dr. Madhuri Rakhunde

GUIDELINES FOR CERTIFICATE COURSE

1. Objectives

1. To impart knowledge regarding concepts of Financial Accounting. Tally is an accounting package which is used for learning to maintain accounts.
2. This course helps students to work with well-known accounting software i.e. Tally ERP.9.
3. To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software.
4. Accounting with Tally certificate course is not just theoretical program, but it also includes continuous practice, to make students ready with required skill for employability in the job market.

2. Course Designing

The department has designed 03 certificate courses in discussion with the faculty members after taking into consideration the current advancements in relevant fields and Market demands.

3.Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

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- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the mark so obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distributions shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

4. Course Outcomes:

1. After successfully qualifying practical examination, students will be awarded certificate to work with well-known accounting software i.e. Tally ERP.9
2. Student by their own will create company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and print financial statements, etc. in Tally ERP.9 software.
3. Students will possess required skill and can also be employed as Tally data entry operator.

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COURSE MODULES:

Module 1: Introduction to Financial Accounting (8 hours)

Accounting Concepts

Module 2: Financial Accounting Basics (8 hours)

Company Creation □ □ Accounts Configuration □ □ Accounts Classification □ □ Accounts Master Creations □ □ Voucher Types and Classes □ □ Accounts Vouchers

Module 3: Inventory (8 hours)

Introduction to Inventory □ □ Stock Groups, Stock Categories □ □ Stock Item □ □ Reorder Levels □ □ Locations / Go downs □ □ Units of Measure, Price List □ □ Tariff classification □ □ Dealer Excise opening stock □ □ Pure Inventory Voucher, Entry of Pure Inventory Voucher □ □ Bill of Material □ □ □ Purchase and Sales Order □ □ Foreign Exchange Transaction

Module 4: TDS (8 hours)

Introduction to Tax Deducted at Source (TDS) □ □ □ TDS in Tally □ □ TDS Masters □ □ Vouchers / Transactions □ □ Advance to a Party TDS Reports □ □ TDS Return □ □ TDS E-Return □ □ TDS Outstandings □ □ Exception Report

Books Recommended: -

- 1) Tally 9.0 in Simple Steps by- Kogent Solutions
- 2) Textbook of Financial Accounting by – Daniel M. Kimuda
- 3) TDS by Chandan Gupta
- 4) Value added Tax – Alan A. Tail
- 5) Service Tax – Shubham Shinha
- 6) Payroll Management – Steven Bragg
- 7) Tally ERP 9 – Nadkani


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Certificate Course in E-Commerce

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in E-Commerce

Course Duration: 32 Hrs Course

Coordinator: Dr. Madhuri Rakhunde

1. Course Objectives:

- 1.To develop the basic knowledge about the working and functions of banking.
- 2.To develop an understanding of the important banking concepts.
- 3.To acquaint the students with banking services and enable them for practical banking.

2. Course Designing

The department has designed 03 certificate courses in discussion with the faculty members after taking into consideration the current advancements in relevant fields and Market demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

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- The attendance and evaluation record of the students and the mark so obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distributions shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

4. Course outcome

This course enables students to acquaint with banking services and enable them for practical banking.


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COURSE MODULES:

UNIT – I - (6-h)

Electronic Commerce Environment and Opportunities:

Background, The Electronic Commerce Environment, Electronic Marketplace Technologies. Modes of Electronic Commerce: Electronic Data Interchange, Migration to Open EDI, Electronic Commerce with www/Internet, Commerce Net Advocacy, web Commerce Going Forward.

UNIT – II - (6-h)

Approaches to Safe Electronic Commerce:

Secure Transport Protocols, Secure Transactions, Secure Electronic Payment Protocol (SEPP), Secure Electronic Transaction (SET), Certificates for authentication Security on web Servers and Enterprise Networks. Electronic Cash and Electronic Payment Schemes: Internet Monetary Payment & Security Requirements. Payment and Purchase Order Process, On-line Electronic cash.

UNIT – III - (6-h)

Internet/Intranet Security Issues and Solutions:

The need for Computer Security, Specific Intruder Approaches, Security Strategies, Security Tools, Encryption, Enterprise Networking and Access to the Internet, Antivirus Programs, Security Teams.

UNIT – IV - (7-h)

Master Card/Visa Secure Electronic Transaction:

Introduction, Business Requirements, Concepts, payment Processing. E-Mail and Secure E-mail Technologies for Electronic Commerce: Introduction, The Means of Distribution, A model for Message Handling, E-mail working, Multipurpose Internet Mail Extensions, Message Object Security Services, Comparisons of Security Methods, MIME and Related Facilities for EDI over the Internet.

UNIT – V-(7-h)

Internet Resources for Commerce:

Introduction, Technologies for web Servers, Internet Tools Relevant to Commerce, Internet Applications for Commerce, Internet Charges, Internet Access and Architecture, Searching the Internet. Advertising on Internet: Issues and Technologies. Introduction, Advertising on the Web, Marketing creating web site, Electronic Publishing Issues, Approaches and Technologies: EP and web-based EP.

Textbooks:

1. Web Commerce Technology Handbook, by Daniel Minoli, Emma Minoli, Mc Graw-Hills
2. Frontiers of electronic commerce by Galgotia.

Reference Books:

1. E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam


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Certificate Course in Fundamental of Practical Banking

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in Fundamentals of Practical Banking

COURSE DURATION: 32 Hrs.

COURSE CO-ORDINATOR: Prof-. Rekha Wath

1. Course Objectives:

1. To develop the basic knowledge about the working and functions of banking.
2. To develop an understanding of the important banking concepts.
3. To acquaint the students with banking services and enable them for practical banking.

2. Course Designing

The department has designed 03 certificate courses in discussion with the faculty members after taking into consideration the current advancements in relevant fields and Market demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the reserved time slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/vacation period.
- A student will be permitted to register only one Certificate Course in a Semester.
- The certificate course can be offered only if there are at least 30 students opting for it.
- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the mark so obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distributions shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

4. Course outcome:

This course enables students to acquaint with banking services and enable them for practical banking.


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COURSE MODULES:

Module 1: Banking structure and theories. (8hours)

Banking – definition – history of banking in India- bank nationalization- structure of banking in India-RBI and its function-monetary policy

Module 2: Introduction to practical banking. (8hours)

Commercial banks- functions of commercial banks- principles of commercial banking.

Module 3: Feature of banking (8 hours)

Feature of commercial banks- types of deposits and credits- banker customer relationships-bankers rights and obligations- negotiable instruments- BOE-PN- Cheque - endorsing and crossing

Module 4: Recent trends and innovations in banking (8 hours)

ATM–CDM-EFT-NETbanking-NEFT-RTGS-IMPS-UPI-Corebanking-cheque truncation system-credit and debit cards-KYC- MICR cheque


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Certificate Course in Soil Testing

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in Soil Testing

COURSE DURATION: 32 Hour

COURSE COORDINATOR: Dr. D.M. Chavhan

COURSE OBJECTIVE:

- To know composition of the soil
- Understanding the soil characteristics.
- Analysis of soil composition.
- Awareness about agricultural land.

Medium of course: English

Eligibility: B.Sc. Sem V Students of Indira Mahavidyalaya College with Chemistry as a subject undergraduate level

COURSE DURATION: 32 hrs

After successful completion of course for 32 Hour will be evaluated through offline/online mode the test will be consist of 25 MCQ, each question will carry 2 marks and total marks will be 50. Maximum marks for passing will be 20 marks (40%)

The successful students will be given certificate of completion.

COURSE OUTCOMES

At the end of this course, the students will be able to

- To analyses their own agriculture land soil
- Develop analytical thinking
- Understand soil composition and characteristics of soil


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SYLLABUS

PART I: Introduction:

Definition of Soil, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts, Properties of Soil

Introduction to properties of Soil:

A) Physical Properties: -

Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water relationships.

B) Chemical Properties: -

Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

C) Biological Properties: -

Soil Organic Matter, C: N Relationships, N-Transformation, Soil Organisms, Sulfur Transformation.

PART II: Soil Testing and Analysis

Unit – I: Sample Collection

Sample Collection and Processing Purpose of Soil testing and analysis, selection of field, Method of Soil Sample collection Methods of soil sample processing, precautions during soil collection & processing, Preservation labeling and Storage of soil samples, various types of tools used for collection.

Unit – II: Study of Instruments

Brief study of instruments: PH Meter, Conductivity meter, spectrometer, UV/Visible Spectrophotometer, (Calibration, Instrumentation, applications only) use of soil testing kit and mobile soil testing van. Kjeldahl's Assembly for determination of nitrogen.

Books Recommended:

1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
2. Fundamentals of soil science, fourth Ed., H.D. Wiley Books.
3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
4. Principles of Soil Chemistry (2nd Ed.) Marcel Dekker Inc., New York.
5. Handbook of Agricultural Sciences, S.S.Singh, P.Gupta, A.k.Gupta, Kalyani Publication.


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Certificate Course in Basic Chemistry Software

Certificate Course On “Basic Chemistry Software”

Course Duration: 32 Hour

Course Coordinator: Prof. S.R. Khandekar

Objective:

Acquire skills on usage of Chem Draw Software to draw the chemical structures. Also, predict physical and chemical properties like bond angles, bond lengths, stereochemistry, and polarity, H-NMR, C-13 NMR and Mass Spectral Data.

Outcome:

This course gives a favor or weightage to the students during the interview in securing jobs or research opportunities.

Curriculum design:

- The total workload of the course work is 42 hours.
- It contains four modules. Each module consists of 14 hours, in which seven sessions are theory and seven sessions are practical.
- Two hours are allotted to practical examination at the end of the course work.
- Two hours are allotted to rectification and doubts clarification on the examination.

Teaching Pedagogy:

- Flipped Classroom teaching Black board and ICT tools.
- Classroom teaching through LCD projector.
- Practical work on computer systems.
- Continuous student evaluation through assignments

Assessment and Evaluation:

- Student is evaluated through the examination at the end of the course work.
- Certificates will be issued based on the performance.


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SYLLABUS

MODULE-I:

1. About ChemDraw
2. Installation and applications
3. Usage of tools present in the Chem Draw
4. Drawing of Chemical molecules with Chem Draw
5. Drawing of chiral centered molecules
6. Checking the correctness of structures drawn
7. Convert the structures into IUPAC name

MODULE-II:

1. Convert the IUPAC name into structure
2. Find the stereochemistry of molecules
3. Find the molecular weight and chemical formulae
4. Predict the ^1H NMR spectra and chemical shift values
5. Predict the ^{13}C NMR spectra and chemical shift values checking the correctness of structures drawn
6. Predict the melting point, boiling point and log P values

MODULE-III:

1. Convert the 2D structure into 3D structure
2. Find the bond lengths and bond angles
3. Save the molecules in different formats
4. Insert the molecular structures into MS word and PPTs.
5. About standard Chem Draw settings for different scientific organizations
6. Convert the 3D structure into ball and stick model


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Certificate Course in Green Chemistry

Indira Mahavidyalaya Kalamb, Dist-Yavatmal

Certificate course in Green Chemistry

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Miss S.R. Khandekar

Chemistry is central to intellectual and technological advances in many areas of science. The traditional boundaries between chemistry subdisciplines are blurring, and chemistry increasingly overlaps with other sciences. Unchanged, however, is the molecular perspective that lies at the heart of chemistry. Chemistry programs have the responsibility to communicate this molecular view to their students and to teach the skills necessary for their students to apply this perspective. An approved chemistry program requires a substantial institutional commitment to an environment that supports long-term excellence. Because the approved program exists in the context of the institutional mission, it must support the needs, career goals, and interests of the institution's students.

1) Objectives:

- Certificate course offers students a broad-based and rigorous chemistry education that provides them with the intellectual, experimental, and communication skills necessary to become successful scientific professionals.
- The students will be provided with the theoretical and practical knowledge which is useful for the industrial career.

2) Guidelines for the certificate course:

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/ vacation period.
- A student will be permitted to register only one Certificate Course in a Semester.
- The certificate course can be offered only if there are at least 30 students opting for it.
- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

3) Course Outcomes:

- You will learn the fundamental principles of green chemistry.
- Evaluate frameworks for incorporating chemical toxicity and human health considerations into product design, material selections, and supply chain decision-making.
- Develop a new framework for reducing chemical risks and unintended adverse consequences.
- Incorporate best practices into your business model that leads to a safer and sustainable approach for the design, use and selection of chemicals.

4) Eligibility:

B.Sc.I Sem I Students of Indira Mahavidyalaya College with Chemistry as a subject undergraduate level

5) Course Duration: 32 hrs

6) Methodology:

- Theoretical Lectures relevant to the course
- Laboratory Work
- Panel Discussion

7) Assessment:

Student is evaluated through the examination at the end of the course work.

8) Certificate:

Certificates will be provided to the participants on successful completion of the course.

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Co-ordinator
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Kalamb



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Indira Mahavidyalaya
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Course Modules:

Module: 1 (5h)

Principles of Green Chemistry:

- Waste management, Atom Economy, Less Hazardous Chemical Synthesis, Designing Safer Chemicals, Safer Solvents & Auxiliaries, Design for Energy Efficiency, Use of Renewable Feedstocks, Reduce Derivatives, Catalysis, Design for Degradation, Real Time Pollution Prevention, Safer Chemistry for Accident Prevention.

Module: 2 (5h)

Green solvents:

- Supercritical fluids, water as a solvent for organic reactions, ionic liquids, fluorous biphasic solvent, PEG, solventless processes, immobilized solvents and how to compare greenness of solvents.

Module: 3 (5h)

Energy requirements for reactions:

- Alternative sources of energy: use of microwaves and ultrasonic energy. Selection of starting materials; avoidance of unnecessary derivatization – careful use of blocking/protecting groups.

Module: 4 (5h)

Use of catalytic reagents in preference to stoichiometric reagents:

- Catalysis and green chemistry, comparison of heterogeneous and homogeneous catalysis, biocatalysis, asymmetric catalysis and photocatalysis.

Module: 5 (5h)

- Prevention of chemical accidents designing greener processes, inherent safer design, principle of ISD “What you don’t have cannot harm you”, greener alternative to Bhopal Gas Tragedy (safer route to carcarbaryl) and Flixiborough accident (safer route to cyclohexanol) subdivision of ISD, minimization, simplification, substitution, moderation and limitation.

Module: 6 (5h)

- Strengthening/ development of analytical techniques to prevent and minimize the generation of hazardous substances in chemical processes.

Module: 7 (5h)

- Demonstration on experiments regarding the various green synthetic approach for the synthesis of various products

Reference Books:

- “A Textbook of Green Chemistry” by Sankar P. Dey & Nayim Sepay
- “Key Elements of Green Chemistry” by Lucian Lucia.
- “Green Chemistry: Theory and Practice” by Paul T Anastas, John C Warner
- “Green Chemistry: Introduction, Application and Scope” by Vinod K. Tiwari, Abhijeet Kumar, Sanchayita Rajkhowa, Garima Tripathi, Anil Kumar Singh


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Certificate Course in Household Cleaning Chemicals

INDIRA MAHAVIDYALAYA, KALAMB

Course Curriculum

For

CERTIFICATE COURSE IN HOUSEHOLD CLEANING CHEMICALS

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Dr. D.M. Chavhan

COURSE OBJECTIVE:

In our day-to-day life, we the human beings knowingly or unknowingly are within the periphery of Chemistry. From getting up at dawn to retiring to bed at night, Chemistry leaves its footprint in every aspect. Chemistry not only deals with chemicals in the laboratory but also claims its applications in our daily works. The food we eat, the cleaning chemicals we use, the air we breathe, every object we touch all advocate in favour of the versatile uses of Chemistry. Literally, students learn Chemistry.

through lectures in classes, reading books, performing laboratory experiments aided by chemicals and instruments, but they remain largely unaware of the relevance in their daily life. It is thus extremely necessary that our students should be exposed to some simple but interesting procedures based on their theoretical knowledge for the preparation of a host of domestic chemical items suitable for our daily use.

With this objective, the Department of Chemistry, St. Paul's Cathedral Mission College is offering a certificate course in "HOUSEHOLD CLEANING CHEMICALS".

Eligibility: B.Sc. Sem IV Students of Indira Mahavidyalaya College with Chemistry as a subject undergraduate level

Methodology:

- Theoretical Lectures relevant to the course
- Laboratory Work
- Panel Discussion

Assessment:

Writing and submission of the report on the experiments of the course.

Certificate:

Certificates will be provided to the participants on successful completion of the course.

COURSE OUTCOME:

The course provides a fitting platform to the students for achieving a practical training experience on small scale manufacturing of some domestic chemicals needed for our day-to-day life. The course will be effective and fruitful in catering to self-employability through entrepreneurship if a student desires when he or she would not find a curricular related suitable job in the market in future.


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Module of the Syllabus (32 hrs):

Sr. No.	Course	Syllabus	Duration in Hrs
1	Module -1	White Phenyl Black Phenyl	4Hrs
2	Module -2	Toilet Cleaner (Blue Harpic type) Bathroom Floor Cleaner (Red Harpic type) Magic Toilet Cleaner	4 Hrs
3	Module -3	Dish Wash Liquid Soap Car Shampoo	4Hrs
4	Module -4	Tiles & Marble Cleaner Ujala type Neel Liquid	4Hrs
5	Module -5	Sink and Drain Blockage Cleaner Powder Floor Disinfectant Liquid (Lyzol type)	4Hrs
6	Module -6	Glass & Surface Cleaner Stainless Steel Product Cleaner Brass Product Cleaner	4Hrs
7	Module -7	Liquid Soap for Hand Wash Fabric Conditioner Nail Paint Remover	4Hrs
8	Module- 8	Liquid Antiseptic Disinfectant (Dettol type) Hand Sanitizer	2Hrs
9	Module -9	Demonstration of cleaning action of some chemicals	2 hrs

Reference Books:

1. Glorified FAQ on the basic household chemicals, Reviewed in the United States on 6 May 2010
2. The Complete Guide to Household Chemicals Hardcover – 1 March 1995 by Robert J. Palma (Author)
3. Advanced Cleaning Product Formulations, Vol. 3, By Ernest W. Flick • 2013
4. Technician's Formulation Handbook for Industrial and Household Cleaning, Products By Henry J. Hannan • 2007


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Certificate Course in Energy Conservation

INDIRA MAHAVIDYALAYA, KALAMB

Course Curriculum

for

CERTIFICATE COURSE IN ENERGY CONSERVATION & MANAGEMENT

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Dr. Kailash Nemade

1. COURSE OBJECTIVE:

- **Understanding Energy Principles:** To provide students with a foundational understanding of energy, its various forms, and the significance of conserving energy resources.
- **Renewable Energy Knowledge:** To introduce students to various renewable energy sources, their applications, integration, and the potential for reducing reliance on traditional energy sources.
- **Policy and Regulatory Understanding:** To provide an understanding of energy-related policies, regulations, and frameworks at national and international levels, enabling students to navigate and comply with them.
- **Energy Management Skills:** To develop skills in energy management and planning, including the ability to create and implement effective energy management plans in diverse settings.

These objectives collectively aim to create a holistic learning experience, enabling students to grasp theoretical concepts, apply them practically, and become adept at addressing real-world challenges in energy conservation and management.

2. COURSE DESIGNING

The department has designed 03 certificate courses in discussion with the heads and faculty members after taking into consideration the current advancements in relevant fields and industrial demands.

3. GUIDELINES FOR CONDUCTING CERTIFICATE COURSES

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

- Classes for Certificate Course are conducted during the RESERVED Time Slot in a week or beyond the regular class hours.
- Certificate courses may be also conducted during weekends/ vacation period.
- A student will be permitted to register only one Certificate Course in a Semester.
- The certificate course can be offered only if there are at least 30 students opting for it.
- The duration of the certificate course will be 32 hours and as stated in the course content.
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- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

COURSE OUTCOMES:

- **Comprehensive Understanding of Energy Concepts:** Students will grasp the fundamental concepts of energy, its different forms, measurement units, and their applications in various sectors.
- **Familiarity with Renewable Energy Sources:** Acquiring knowledge about renewable energy technologies like solar, wind, hydro, biomass, etc., and understanding their integration into existing infrastructures.
- **Awareness of Energy Policies and Regulations:** Grasping national and international energy policies, along with an understanding of the regulatory frameworks that influence energy conservation and management.
- **Skills in Energy Management and Planning:** Developing skills to manage energy in industries and buildings, creating and implementing energy management plans, and conducting cost-benefit analysis.

These outcomes collectively prepare students to contribute effectively to energy conservation initiatives, implement energy-efficient practices, and adapt to the evolving landscape of energy technologies and policies.


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COURSE MODULES:

Module-01 (5h)

Introduction to Energy Conservation and Management

- Basics of energy, its forms, and units of measurement
- Overview of global energy scenarios and challenges
- Importance of energy conservation and its impact on the environment

Module-02 (5h)

Energy Auditing and Assessment

- Principles and methodologies of energy auditing
- Tools and techniques for energy assessment in industrial, commercial, and residential settings
- Case studies and practical exercises on conducting energy audits.

Module-03 (5h)

Energy Efficiency Technologies

- Understanding energy-efficient systems and equipment
- HVAC (Heating, Ventilation, and Air Conditioning) systems and optimization
- Lighting technologies and their impact on energy consumption

Module-04 (5h)

Renewable Energy Sources

- Overview of renewable energy technologies (solar, wind, hydro, biomass, etc.)
- Integration of renewable energy systems into existing infrastructure
- Economic and environmental aspects of renewable energy

Module-05 (5h)

Energy Policy and Regulations

- National and international energy policies
- Regulatory frameworks related to energy conservation and management.
- Role of government and non-governmental organizations in promoting energy efficiency

Module-06 (5h)

Energy Management and Planning

- Energy management techniques for industries and buildings
- Development and implementation of energy management plans
- Cost-benefit analysis and risk assessment in energy management

Module-07

Demonstration of PV Cell/Module: 2h

BOOKS RECOMMENDED:

- ENERGY MANAGEMENT AND CONSERVATION by K. V. Sharma & P. Venkateshaiah (Publisher: I K International Publishing House Pvt. Ltd)
- Environment, Energy and Climate Change by Nawneet Vibhaw (Publisher: Lexis Nexis)
- Fundamentals Of Renewable Energy Sources by N.S. Rathore (Publisher: Himanshu Publications)
- Energy Engineering and Management by Amlan Chakrabarti (Publisher: PHI Learning)


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Indira Mahavidyalaya
Kalamb Dist. Yavatmal

Certificate Course in Corrosion Science

INDIRA MAHAVIDYALAYA, KALAMB Course Curriculum For

Certificate Course in Fundamentals of Corrosion Science

COURSE DURATION: 32 Hrs

COURSE COORDINATOR: Mr. Sakharam Sangale

Course Description:

This course provides an in-depth exploration of the fundamental principles underlying corrosion science. Students will gain a comprehensive understanding of the processes, mechanisms, and factors influencing corrosion and the methods used to prevent and control corrosion in various materials. The course includes theoretical concepts, practical applications, and case studies to reinforce learning.

1. Objectives

The main objectives of the Certificate Course are:

- To enhance the knowledge and skills in more specialised areas of Science and Technology beyond Curriculum.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to seek the knowledge and the more job opportunities in the specialised area of interest.

2. Course Designing

The department has designed 03 certificate courses in discussion with the heads and faculty members after taking into consideration the current advancements in relevant fields and industrial demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

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- A student will be permitted to register only one Certificate Course in a Semester.
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- The duration of the certificate course will be 32 hours and as stated in the course content.
- The attendance and evaluation record of the students and the marks obtained will be maintained by the respective course co-ordinator.
- The test will be conducted for 50 marks.
- The marks distribution shall be 20% for attendance and 80% evaluation at the completion of the course. Minimum 75% attendance and 50% marks are mandatory for award of certificate.

COURSE OUTCOMES:

- It will serve as a trained, advanced workforce for industry, academia, and government agencies with a basic understanding of environmental degradation assets required to optimize asset life cycle, production efficiency, and worker safety;
- Get familiar with the technological and computational tools and methods for corrosion and material degradation evaluation, inspection, detection, and prevention.
- Students contribute to interdisciplinary efforts while developing a comprehensive understanding of the potentials and limitations of corrosion science and engineering; and
- Students will acquire skills necessary to thrive in their chosen career path.

Bhargava
Co-ordinator
IQAC
Indira Mahavidyalaya
Kalamb



P. B. Mandarke
PRINCIPAL
Indira Mahavidyalaya
Kalamb Dist. Yavatmal

COURSE MODULES:

Unit 1: Introduction to Corrosion Science (5H)

- Overview of corrosion and its significance
- Historical perspective and major corrosion incidents
- Types of corrosion: uniform, galvanic, pitting, crevice, and stress corrosion cracking
- Corrosion terminology and definitions

Unit 2: Electrochemical Principles of Corrosion (5H)

- Electrochemical reactions in corrosion
- Galvanic series and corrosion cells
- Corrosion potential, polarization, and corrosion rate
- Pourbaix diagrams and their application

Unit 3: Thermodynamics and Kinetics of Corrosion (5H)

- Thermodynamic aspects of corrosion: Gibbs free energy and corrosion driving forces
- Kinetics of corrosion reactions: activation energy and reaction rates
- Tafel equations and Butler-Volmer equation
- Corrosion inhibitors and their mechanisms

Unit 4: Corrosion Mechanisms and Morphology (5H)

- Mechanisms of corrosion processes
- Corrosion products and their characterization
- Influence of environmental factors on corrosion
- Techniques for studying corrosion morphology.

Unit 5: Corrosion Prevention and Control (5H)

- Protective coatings and inhibitors
- Cathodic and anodic protection
- Alloy selection and modification
- Design considerations for corrosion prevention.

Unit 6: Advanced Topics in Corrosion Science (5H)

- Corrosion testing and monitoring techniques.
- Corrosion in specific environments (e.g., marine, industrial, atmospheric)
- Emerging trends and technologies in corrosion science
- Case studies and real-world applications

Demonstrations of Experiments on Corrosion Science (2H)

Reference Materials:

- "Principles of Corrosion Engineering and Corrosion Control" by Zaki Ahmad
- "Corrosion Basics: An Introduction" by Pierre R. Roberge
- "Corrosion Science and Engineering" by Mars G. Fontana and Norbert D. Greene
- Journal articles and research papers from reputable corrosion science publications.


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Certificate Course in Introduction to Basic Electronics

INDIRA MAHAVIDYALAYA, KALAMB

Certificate Course in Introduction to Basic Electronics

COURSE DURATION: 32 HRS

COURSE COORDINATOR: MR. JAWAHAR BODULWAR

1. Objectives

The main objectives of the Certificate Course are:

- To enhance the knowledge and skills in more specialized areas of Science and Technology beyond Curriculum.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to seek the knowledge and the more job opportunities in the specialized area of interest.

2. Course Designing

The department has designed certificate courses in discussion with the heads and faculty members after taking into consideration the current advancements in relevant fields and industrial demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

The following are the guidelines for the conduct of the certificate course.

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4.Course Outcomes:


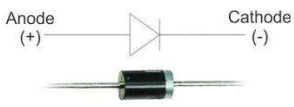




- Explain common applications, components, tools, testing instruments, safety measures, and professional opportunities associated with the electronics field.
- Identify key terms, notations, prefixes, symbols, and operating procedures associated with circuits, conductors, resistors, and other electronic devices and components.
- Describe the properties, functions, and proper handling of various types of conductors, wire insulation, cells, and batteries.
- Describe Ohm's law and its variations, associated calculations, and practical applications.

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COURSE MODULES:

<p>UNIT-1 Resistor</p> 	<p>Ohm's Law; Types of Resistors including Carbon, Film & Composition; Effect of temperature on performance of resistor; Resistors color code; Resistors in series; Resistors in parallel</p>	<p>5h</p>
<p>UNIT-2 Diodes</p> 	<p>Introduction to semiconductors; Doping, Extrinsic semiconductors; Fermi level & energy level diagrams; Drift current; Hall effect; Semiconductor diode & its biasing, Effect of temperature on performance; Types of Semiconductor diode</p>	<p>5h</p>
<p>UNIT-3 Capacitors</p> 	<p>Dielectric materials: Energy stored in a capacitor; Current-voltage relation; Voltage-dependent capacitors; Applications: -Energy storage, Digital memory, Pulsed power and weapons & Power conditioning.</p>	<p>5h</p>
<p>UNIT-4 Transistors</p> 	<p>Construction of Transistor: - Simplified operation: - Transistor as a switch & Transistor as an amplifier; Part numbering standards/specifications: Japanese Industrial Standard (JIS) & European Electronic Component Manufacturers Association (EECA)</p>	<p>5h</p>
<p>UNIT-5 Inductors</p> 	<p>Constitutive equation; Lenz's law; Stored energy; Ideal and real inductors; Inductor construction; Types of inductors: - Air core inductor, Radio frequency inductor, Ferromagnetic core inductor, Laminated core inductor, Ferrite-core inductor, Powdered iron core inductor & Toroidal core inductor; Applications</p>	<p>5h</p>
<p>UNIT-6 Light Emitting Diodes</p> 	<p>Discoveries and early devices; Initial commercial development; Blue LED; White LEDs and the illumination breakthrough; Working principle; Colors and materials: - Blue and ultraviolet, RGB & White; Applications: - Indicators and signs; Lighting; Data communication and other signaling; Sustainable lighting.</p>	<p>5h</p>
<p><i>Demonstration of electronic component.</i></p>		<p>2h</p>

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Certificate Course in Applied Entomology

INDIRA MAHAVIDYALAYA, KALAMB

Certificate Course in Applied Entomology

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Mr. Rahul Sinha

Course Description:

The applied entomology add on certificate course offers a comprehensive exploration of insect biology and its practical applications across diverse sectors. Covering topics like insect morphology, behaviour, and ecology, it delves into integrated pest management strategies, emphasizing sustainable approaches in agriculture and pest control. Students gain insights into the roles of insects in ecosystems, their impact on human activities, and the utilization of beneficial insects. Through a blend of theory and hands-on experience, the course equips participants with the knowledge and skills needed to address real-world challenges in agriculture, public health, and environmental conservation.

1. Objectives

The main objectives of the Certificate Course are:

- To get knowledge about surrounding insects
- To get idea about major group of animals and their inter-relationship
- Study of Entomology will prove beneficial in curving economic losses through insects.

2. Course Designing

The department has designed 03 certificate courses in discussion with the heads and faculty members after taking into consideration the current advancements in relevant fields and industrial demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee.

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4. Course Outcomes

The student should meet the following outcomes upon completion of the certificate:

- Students will be able to differentiate the distinct roles insects play in human health, society, and culture.
- Students will be able to contrast and compare the diversity, life stages and ecology of major groups of insects.
- Students will be able to extrapolate from insect model systems to ecosystems, agriculture, and human health.

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COURSE MODULES:

Unit 1: Introduction to Entomology (5H)

- Overview of Entomology
- Insect Morphology
- Classification of Insects
- Life Cycles
- Importance of Insects

Unit 2: Insect Behavior and Ecology (5H)

- Insect Behavior
- Insect Ecology
- Insect-Plant Interactions
- Population Dynamics
- Ecosystem Services

Unit 3: Insect Identification and Taxonomy (5H)

- Methods of Identification
- Taxonomic Keys
- Diagnostic Characteristics
- Hands-on Identification Practice
- Recording and Documenting

Unit 4: Integrated Pest Management (IPM) (5H)

- IPM Strategies
- Biological Control
- Cultural Control Methods
- Chemical Control
- Monitoring and Decision Making

Unit 5: Beneficial Insects and Their Applications (5H)

- Role of Beneficial Insects
- Pollinators and Pollination
- Predatory Insects
- Parasitic Insects
- Conservation Strategies

Unit 6: Applications of Entomology (5H)

- Agricultural Applications
- Biological Pest Control
- Medical and Veterinary Applications
- Environmental Monitoring
- Insect Biotechnology

Reference Materials:

1. "Principles of Applied Entomology" by Prof. A. R. Shashtri
2. "Integrated Pest Management: Concepts, Tactics, Strategies and Case Studies" by Edward B. Radcliffe and William D. Hutchison
3. "Insects and Sustainability of Ecosystem Services" by C. S. Biju
4. "Insects: Their Natural History and Diversity" by Stephen A. Marshall
5. "Medical and Veterinary Entomology" by Gary R. Mullen and Lance A. Durden

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Certificate Course in Environmental Issues and its Awareness

INDIRA MAHAVIDYALAYA, KALAMB

Certificate Course in Environmental Issues and its Awareness

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Dr.Ved R. Patki

1. Objectives

The main objectives of the Certificate Course are:

- To enhance the knowledge and skills in more specialised areas of Science and Technology beyond Curriculum.
- To bridge the skill gaps and make students Farm or Environment.
- To provide an opportunity to students to seek the knowledge and the more job opportunities in the specialized area of interest.

2. Course Designing

The department has designed 02 certificate courses in discussion with the heads and faculty members after taking into consideration the current advancements in relevant fields and industrial demands.

3. Guidelines for Conducting Certificate Courses

Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee. The following are the guidelines for the conduct of the certificate course.

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4. Course Outcomes

Students will be able to:

- Articulate the interconnected and interdisciplinary nature of environmental studies.
- Demonstrate an integrative approach to environmental issues with a focus on sustainability.
- Use critical thinking, problem-solving, and the methodological approaches of the social sciences, natural sciences, and humanities in environmental problem solving.

- Communicate complex environmental information to both technical and non-technical audiences.
- Understand and evaluate the global scale of environmental problems; and
- Reflect critically on their roles, responsibilities, and identities as citizens, consumers, and environmental actors in a complex, interconnected world.

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COURSE MODULES:

UNIT I -Introduction to environmental studies. (5H)

- Definition, scope and importance.
- Need for public awareness.
- Environmental ethics: Issues and possible solutions.

UNIT II -Social Issues and the Environment (5H)

- From Unsustainable to Sustainable development
- Water conservation, rainwater harvesting, watershed management.
- Climate change, global warming, acid rain, ozone layer depletion.

UNIT IV -Human Population and the Environment (5H)

- Population growth, variation among nations.
- Population explosion - Family Welfare Programme.
- HIV / AIDS.
- Women and Child Welfare.

UNIT V - Natural resources (5H)

- Natural resources and associated problems.
- Types of resources.
- Forest resources: Use and over exploitation, deforestation.
- Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams' benefits and problems.

UNIT VI -Law and order (5H)

- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and Control of Pollution) Act.
- Wildlife Protection Act.
- Forest Conservation Act.

Reference Materials:

1. "Environmental Studies: From Crisis to Cure" by R. Rajagopalan
2. "Environmental Ethics: An Indian Perspective" by P.S. Rana
3. "Environmental Sociology: A Study of Society-Nature Interactions in India" by Ramachandra Guha
4. "Environmental Governance in India" by M.P. Singh
5. "Social Dimensions of Climate Change: Equity and Vulnerability in a Warming World" by Arjun S. Bedi and Amarendra Sahoo
6. "Environmental Politics and Governance in India: A Critical Perspective" by Mahesh Rangarajan and K. Sivaramakrishnan
7. "Ecological Politics in an Age of Risk" by Sunita Narain
8. "Understanding Environmental Issues: A Primer" by Mahesh Rangarajan
9. "Water Conflicts in India: A Million Revolts in the Making" by K.J. Joy, Biksham Gujja, Suhas Paranjape, and Vinod Goud

10. "Environmental Justice: Concepts, Evidence, and Politics" by David Schlosberg, Luke Craven, and Sivaramakrishnan Srinivasan


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Certificate Course in Vedic Maths

INDIRA MAHAVIDYALAYA, KALAMB

Certificate Course in Vedic Maths

Duration: 32 Hours

COURSE COORDINATOR: Prof. R.R. ATRAM

1. COURSE OBJECTIVE

Upon successful completion of the Certificate Course in Vedic Mathematics, students will:

- ❖ Understand the historical context and significance of Vedic Mathematics.
- ❖ Gain insight into the basic principles and Sutras (aphorisms) of Vedic Mathematics.
- ❖ Apply Vedic mathematical techniques in problem-solving.
- ❖ Master fast mental addition techniques and subtraction using the base method.
- ❖ Develop proficiency in multiplication using vertical and crosswise methods.
- ❖ Learn efficient methods for squaring numbers.
- ❖ Acquire skills in long division using the Nikhilam Sutra.
- ❖ Apply Vedic Mathematics in real-life scenarios, including science and engineering problems.

2. GUIDELINES FOR CONDUCTING CERTIFICATE COURSES

- ❖ Certificate Course is over and above the prescribed curriculum. The students should opt and choose the certificate courses of their choice to gain additional knowledge in his/her interest. After successful completion and evaluation, the certificate will be awarded to student by the Institute. It is a teacher assisted learning course open to all students without any additional fee. The following are the guidelines for the conduct of the certificate course.
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3. COURSE OUTCOMES

- To enhance computational skills in maths.
- Develop Analytical thinking through Vedic maths.
- Enable further research in Indian mathematics.
- Conduct seminar on the subject and bringing together scholars in mathematics.
- Develop postal and online study courses on Indian mathematics.
- Instil love and remove the fear of mathematics.
- Promote Vedic culture.
- Crack entrance of competitive exams.


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UNIT 1: Introduction to Vedic Mathematics (6h)

Overview of Vedic Mathematics

- Historical background
- Importance and relevance in the modern context.

Basic Principles of Vedic Mathematics

- Sutras (aphorisms) and their significance
- Application of Sutras in problem-solving

UNIT 2: Basic Operations (6h)

Addition and Subtraction Techniques

- Techniques for fast mental addition
- Subtraction using base method.

Multiplication Techniques

- Vertical and crosswise multiplication
- Squaring numbers

Division Techniques

- Long division using Nikhilam Sutra
- Division by specific numbers

UNIT 3: Advanced Techniques. (6h)

Square Roots and Cube Roots

- Finding square roots using Vedic methods
- Cube root extraction techniques.

Divisibility Rules

- Quick checks for divisibility
- Applying these rules in problem-solving

UNIT 4: Applications in Problem Solving (7h)

Speed Math Techniques

- Mental math strategies for quick calculations
- Speed drills and practice.

Real-life Applications

- Applying Vedic Mathematics in science, engineering, and everyday scenarios
- Problem-solving exercises

UNIT 5: Practical Implementation and Assessment (7h)

Practical Exercises and Case Studies

- Hands-on application of Vedic Math techniques
- Problem-solving sessions

Assessments and Feedback

- Mid-term and final assessments
- Individual and group projects

Certification and Future Applications

- Awarding of certificates
- Guidance on further studies and applications of Vedic Mathematics


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Certificate Course in Quantitative Aptitude

INDIRA MAHAVIDYALAYA, KALAMB

Certificate Course in Quantitative Aptitude

Duration: 32 Hours

COURSE COORDINATOR: Dr. V.B. Watkar

COURSE OBJECTIVES

- ❖ To enhance the problem-solving skills, to improve the basic mathematical skills and to help.
- ❖ Students who are preparing for any type of competitive examinations.
- ❖ Effort has been made to accommodate fundamental, mathematical aspects to instil confidence among students.
- ❖ Enrich their knowledge and to develop their logical thinking ability.

COURSE DESIGNING

The mathematics department has design two certificate courses in discussion with the head and faculty members after taking into consideration the current advancement in relevant field.

GUIDELINES FOR CONDUCTING CERTIFICATE COURSES

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COURSE OUTCOMES

After successful completion of this course, students will have the knowledge and skills to

- ❖ Solve the problems easily by using Short-cut method with time management which will be helpful to them.
- ❖ To clear the competitive exams for better job opportunity. Analyze the Problems logically and
- ❖ Approach the problems in a different manner.


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SYLLABUS:

UNIT I Introduction of Quantitative Aptitude (6H)

Basic Information about Quantitative Aptitude, Basic Concepts, Practise questions

UNIT II Problems on Numbers and Ages (7H)

Basic Concepts, Age problem, Calendar problems, Practise questions

UNIT III Probability & Statistics (7H)

Mean, Median, Mode, Probability, Stocks & shares.

Unit IV Number System (6H)

Number series, lcm, hcf, Factorization.

UNIT V Time, Distance and Work (6H)

Basic Concepts, Train problems, Clock problems, Practise questions

REFERENCES

1. R.V.Praveen, Quantitative Aptitude and Reasoning, 2nd Revised Edition 2013, Prentice-Hall of India Pvt.Ltd.
2. G. K. Ranganath, C. S. Sampangiram and Y. Rajaram, A textbook of business Mathematics, 2008, Himalaya Publishing House
3. R. S. Aggarwal, Quantitative Aptitude (Fully solved), Reprint 2016, S. Chand.

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Certificate Course in Self Defence-Karate

INDIRA MAHAVIDYALAYA KALAMB

CERTIFICATE COURSE IN SELF DEFENCE-KARATE

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. S.S.Raut

Introduction: --

Karate is a form of self-defense technique that requires a good balance between body and mind. The word “karate” means playing “empty handed”. So, apart from physical power, one needs to learn various playing tactics to have a cutting edge over others. Through this tutorial, one can learn the basic way of playing karate and the rules governing it.

Though the “how to play” section does not cover comprehensive research on karate tactics but is sufficient to make you understand the basic moves.

Karate is a Japanese martial arts technique that needs development of defensive attack and counter attacking body movements. Although this game teaches an individual the art of attacking and self-defence, the sole motive is the self-improvement. Discipline, persistent effect, mind balance are some key words that defines best a karate practiser. The word “kara” means Empty and “Te” means Hand. A suffix “Do” (karate-do) adds meaning of defending himself empty handed.

Aims:

Karate can be practiced at different levels and with a variety of goals, principally the following:

1. Karate was initially a system of **self-defence** developed on the island of Okinawa and influenced by Chinese martial arts.

2. Karate subsequently became a **martial art** and a system of **education**. Karate also aims to **perfect one’s character**:

- Karate fosters *willpower, precision, and perseverance* (for example, through *kihons*, stances and training sessions that are sometimes difficult).
- Karate improves *self-confidence* and *assurance*.
- It promotes *control of the body and mind* (self-control).
- The height of the art is, of course, to *anticipate* an attack. In extreme cases, it is also to *avoid* dangerous situations and *fight*s.

3. Karate has become a **sport** that aims to improve **physical fitness** and **health** as well as a **competitive** sport. This new aspect, which is inseparable from karate’s current success, nevertheless risks distancing practitioners from the martial art.

GUIDELINES FOR CONDUCTING CERTIFICATE COURSES

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Objectives: -

- Humility
- Calmness and Discipline
- Skillfulness
- Seriousness
- Increase willpower.
- Self confidence
- Control the body and mind.
- Persevere

Course Outcomes: -

1) The students learnt about the different kind of violence that may be faced by girls or by women in any place including at home.

2)The students participants got different self-protection tips on how to avoid/defend by attacking a potential attacker by using objects or by striking on the soft spots of the attacker, when subjected to physical abuse, violence, crime,etc.


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COURSE MODULES:

Module- 1 (5h)

Introduction, Basic knowledge of karate

Module- 2 (5h)

HOW TO PLAY?

Stances, blocking methods, attacking methods, kicking methods, punching.

Module- 3 (5h)

Belt colors and meaning.

- 1) **White Belt** - The birth of a new light is indicated by white. In karate it usually depicts for a person who starts to learn karate keeping in mind about the different challenges that he is going to face.
- 2) **Yellow Belt** - It symbolizes the first ray of sun light. In karate its meaning is that now the student's mind is open to accept more possible techniques and methods.
- 3) **Orange Belt** - This light is an indication of spreading of light on the earth. So, it shows how the student is expanding its knowledge in the field.
- 4) **Green Belt** - It depicts the penetration of stems and roots of the plant to get the sun light. In turn this means the student is developing new skills and learning new techniques to master the game.
- 5) **Blue Belt** - The plant is growing up towards the sky which is blue in color. That means student is going deeper to understand each move in karate and differentiating each to gain more knowledge.
- 6) **Purple Belt** - It indicates that the student is very serious about acquiring new belts that is coming across next.
- 7) **Brown Belt** - This shows that the plant is full grown, and it is ready for the harvesting. Similarly in karate it indicates that the student has gained adequate knowledge about the skills and now he is ready for the combat.
- 8) **Red Belt** - It signifies the depth of the knowledge that a student possesses and ability to give those a successful direction.
- 9) **Black belt** - Every glowing object has a dark shadow behind it and that is what this color is all about. This belt shows that the person wearing it has mastered all the skills and he poses a great ability within him to enlighten others with his knowledge.

PRACTICALS

Module- 1 (17h)

Unit-I 1. Stances 2. Blocking methods

Unit-II 1. Attacking methods 3. Kicking methods

Unit-III 1. Punching methods 2. Breathing methods

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Certificate Course in Yoga and Meditation

Indira Mahavidyalaya Kalamb

Certificate Course in Yoga and Meditation

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. S.S.Raut

Introduction:

Yoga comes from the Sanskrit word 'Yuj' which means to unit or to twisted body poses; it is not so. The main aim of yoga is to help one connect with one's inner Sprit, which is connected to the universal sprit or God. Yoga creates a balance between the body and the mind and to attain self-enlightenment. Yoga brings stability to the body and the wavering mind. To accomplish it, Yoga makes use of different movements, breathing exercise, relaxation technique and Meditation. Yoga is associated with a healthy and lively lifestyle with a balanced approach of life. Our modern-day lifestyle is too hectic and puts a lot of stress on us which in turn causes a lot of lifestyle problems like obesity, hypertension, high cholesterol, Diabetes etc. yoga is the answer to all these problems. It offers harmless solutions to these problems in the form of relaxation.

1) Aims:

1) Yoga education can supplement school and university education. It can prepare the students physically and mentally for the integration of their Physical, mental and spiritual faculties so that the students can become Healthier, saner and more integrated members of the society and of the Nation.

2) Yoga education helps in self-discipline and self-control, leading to immense Amount of awareness, concentration and higher level of consciousness yoga techniques provide improved attention in studies, better stamina and Co-ordination for sports and a heightened awareness and balanced attitude for social activity.

2) Objectives:

- 1) To enable the students to have good health.
- 2) To practice mental hygiene.
- 3) To possess emotional stability.
- 4) To integrate moral values.
- 5) To attain higher level of consciousness.
- 6) Spiritual development or self-realization
- 7) Physical development and mental development
- 8) Less sports injuries and prevention.
- 9) Culture

3) Guidelines for Conducting Certificate Courses:

GUIDELINES FOR CONDUCTING CERTIFICATE COURSES

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4) Course Outcomes

- Demonstrate proficiency in various yoga asana (postures) to enhance flexibility, strength, and balance.
- Utilize pranayama techniques to regulate and deepen their breath, promoting relaxation and focus.
- Apply meditation methods to cultivate mindfulness, reduce stress, and increase emotional resilience.
- Explain the fundamental principles of yoga philosophy and its relevance to modern living.
- Develop a personalized yoga practice that suits their individual needs and goals.

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Dr. Yashawant Moreshwar Donde Sarwajanik Shaikshanik Trust's
INDIRA MAHAVIDYALYA, KALAMB
Course Curriculum
For
Certificate Course in Yoga and Meditation

COURSE DURATION: 32 Hrs.

COURSE COORDINATOR: Prof. S.S.Raut

COURSE MODULES:

Module- 1 (5h)

- 1) Definition of yoga and meditation
- 2) Aims and objectives of yoga
- 3) Concepts of yoga and meditation and meaning of the word yoga.

Module- 2 (5h)

- 1) Add relevant point and discard the Misconception of yoga
- 2) How to get comfortable for a silent, sitting meditation
- 3) How to use the breath to calm the body and mind
- 4) Energy of yoga

Module-3 (5h)

- 1) What is pranayamas?
- 2) Important of pranayamas
- 3) Types of pranayamas
- 4) Benefits of meditation
- 5) Asanas advantages and disadvantages

Module- 4: - Practical (17h)

- 1) Demonstration of Suryanamashkar
- 2) Breathing exercise section (Pranayama)
- 3) Asanas: - 1) Pawan muktasana 2) Naukasana 3) Sarvangasana 4) Matsyasana 5) Halasana 6) Bhujangasana 7) Dhanurasana 8) Vakrasana 9) Paschimotanasana 10) Vajrasana 11) Suptavajrasana 12) Chakrasana 13) Shavasana 14) Makarasana 15) Tadasana 16) Parvatasana etc.
- 4) Types of Pranayama:
 - 1) Anuloma-Viloma 2) Kapalbhati 3) Bhramari 4) Ujjayi 5) Shitali 6) Sitkari 7) Om-kar


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