



# **National Institute of Open Schooling**

**(Under Ministry of Human Resources Development, Govt. of India)**

National Institute of Open Schooling (NIOS) is introducing the following 03 new innovative Vocational Training Programmes from the next Session – Dec. 2010.

S. No.	Name of the Programme/ Course	Eligibility for admission	Duration & Level of the Programme
01	Diploma Course in Basic Rural Technology	8 <sup>th</sup> class pass	2 years Diploma Programme/Course
02	Certificate Course in Fire Prevention & Industrial Safety	8 <sup>th</sup> class pass	1 year Certificate Programme/Course
03	Certificate Course in Ayurvedic Therapy	12 <sup>th</sup> class pass	1 year Certificate Programme/Course

NIOS invites the applications from the registered NGOs, Private/Govt. ITIs, Polytechnics, Jan Shikshan Sansthan, KVKs, and Health Institutions & Hospitals etc. for accreditation to run the above mentioned Vocational Education Training Programmes/Courses.

Details about application form, Guidelines and Norms for Accreditation, etc. are available on NIOS website [www.nios.ac.in](http://www.nios.ac.in)

**Director (Vocational Education)**

\* Norms for accreditation of these 03 New Courses are as follows:

## 1. Basic Rural Technology

The institutions having the following basic infrastructure may apply for accreditation of this Course:

### (A) Basic Infrastructure

1. Class Room: Classroom to accommodate for 25 students (minimum area 225Sq. ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
2. One Lab: The Lab to accommodate for 25 students (minimum area at least 20 ft. x 25 ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
3. One Workshop: The workshop to accommodate for 25 students (minimum area at least 20 ft. x 25 ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
4. Agriculture land: Agriculture land for growing and cultivation the plants/crops.

Note: Details for List of Tools /Equipments may be seen on NIOS website: [www.nios.ac.in](http://www.nios.ac.in)

**Library:** Library should have a minimum 20 books/articles/magazines etc. related subject.

### (B) Faculty & Supporting Staff

S.No.	Faculty & Supporting Staff	Educational/Professional Qualification	No.
1.	Coordinator	Graduate	01
2.	Instructor (part time)	Nursing Course	01
3.	Instructor – Agriculture & Animal Husbandry	Degree/Diploma in Agriculture/Animal husbandry-DBRT with sufficient practical experience.	01
4.	Instructor – Engineering	Degree/Diploma in Engineering discipline – ITI-DBRT with sufficient practical experience.	01
4.	Instructor – Electrical	Degree/Diploma in Engineering discipline – ITI –DBRT with sufficient practical experience.	01
5.	Instructor – Food lab	Class 12 <sup>th</sup> Pass – Home science or DBRT with practical experience in food processing	01
6.	Receptionist cum clerk	Relevant to job	01

**Batch Size** – Maximum 25 students in one batch.

Note: Institute can run maximum 2 batches of this course

## 2. Fire Prevention & Industrial Safety

The institution having the following requisite infrastructure, may apply for accreditation of this Course:

**Class Room:** Classroom for 30 students (minimum area 400Sq. ft.) should have proper ventilation, well-illuminated black board/white board and availability of adequate furniture and ceiling fans.

**Exhibit:** Minimum Size – 600 Sq. Ft. preferably display racks etc. well ventilated and illuminated)

**Field:** Field should have capacity to accommodate minimum 50 students for P. T. Practical Training etc.

- Fixed system
- Portable system
- Small gears

(LIST OF TOOLS /EQUIPMENT REQUIRED FOR PRACTICAL/TRAINING AVAILABLE AT OUR WEB SITE)

### Educational Technology Equipment

- Coloured TV
- Multimedia Computer
- CD player
- OHP/LCD

**Library:** Library should have a minimum 10 books/articles/magazines etc. related subject.

### Staff Requirements:

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Educated/Professional generally Head of the institution/Deptt.	01
Instructor (theory)	Diploma in Fire engineering Or Fireman certificate course with 1 year experience Certificate	02
Instructor (practical training )	- Do -	
Receptionist cum clerk	Relevant to job	01

**Batch size** – Maximum 30 students in one batch.

Note: Institute can run maximum 2 batches of this course

### 3. Ayurvedic Therapy

The institute having the following infrastructure may apply for accreditation of this Course:

#### (A) Basic Infrastructure

1. **Class Room:** Classroom to accommodate for 25 students (minimum area 225 Sq. ft.) should have a black board/white board, adequate furniture, exhaust and ceiling fans etc. with proper ventilation & adequate lighting.
2. **OPD Facility:** The institution should have an OPD (Doctor's Chamber, dispensing & Therapy Chambers)
3. **Therapy & Instruments Chambers:** Separate Therapy Chambers for male & Female should have washable non-slippery floor, Patient's tables (7 ft X 3 ft X2 ft), exhaust & ceiling fans etc. with proper ventilation & adequate lighting. The Therapy Chambers may have also the Box for *swedana*, *Nadisweda yantra*, *Shirodhara yantra*, Medicated Ayurvedic oils i.e. *Dashamoola kwath*, *Dashamoola Tel*, *Mahanarayan* and *Panchaguna* etc. or separate room may also be used for the instruments.
4. **Library:** Library should have a minimum 10 books/articles/magazines etc. related subject.

#### (B) Faculty & Supporting Staff

S. No.	Faculty & Supporting Staff	Educational/Professional Qualification	No.
1.	Coordinator	Graduate	01
2.	Instructor (BAMS Doctor)	BAMS	01
3.	Technical Asstt.	Certificate/Diploma in Ayurvedic Therapy/Panchakarma  OR.  12 <sup>th</sup> class passed & minimum 02 years experience in Ayurvedic Therapy/Panchakarma	02
4.	Receptionist cum clerk	Relevant to job	01

**Batch size** – Maximum 25 students in one batch. Note: Institute can run maximum 2 batches of this course

*For accreditation and details please contact:*

*The Director (Vocational)*

*National Institute of Open Schooling*

*A – 24/25, Sector – 62, Institutional Area, Noida (Uttar Pradesh)*

*Phone 0120 – 4089818 Fax – 4089819*

Our website: [www.nios.ac.in](http://www.nios.ac.in) or [www.nios.org](http://www.nios.org)

Open Vocational Education Programme

# **DIPLOMA COURSE IN BASIC RURAL TECHNOLOGY**



**NATIONAL INSTITUTE OF OPEN SCHOOLING**

# **DIPLOMA COURSE IN BASIC RURAL TECHNOLOGY**

## *Course Curriculum*

### Vocational Training Programme: Basic Rural Technology

Title of the Course:                      **Basic Rural Technology (BRT)**

Level:    Diploma

## **Need & Justification:**

About 90% of the children, who enroll in the primary school, do not cross the SSC barrier. It is not that these children are unfit for education. In fact, they are the major work force for India. They start many small enterprises, do agriculture works as skill worked workforce and generally they contribute substantially to the progress of India. They have probably dropped out because our book based education system did not suit them, and the children lose interest in all education. Very often the very thought of schooling and examination frightens them.

The country is faced with a large proportion of school dropouts and a corresponding problem of unemployment and under-performance in the unorganized sector. In the present changing world scenario, this is a great handicap to progress. We therefore need a system by which the problem will be treated at the root.

The main cause of this dropout problem is that our education system is almost entirely book based and a large section of the students, both during and after the schooling find the education incomprehensible and irrelevant.

Basic Rural Technology content and the system of Hands-on training not only make the education relevant but also understandable because its uses the 'learning while doing' system and are closely linked to services to the community.

The multi-skill content with hands-on experience stimulates the intellect by going through concrete operations and then abstracting the concepts. At the same time by giving a variety of skills usable in every day life, they open the door of modern technology to the youth, allowing them to form their preferences and know their aptitudes thus enabling them to choose a career. It also improves their self-image and gives them confidence and hope for the future. The level of training, though basic, empowers them to start their own enterprise after a short (less than a year) stint with another enterprise in the field.

The Diploma in Basic Rural Technology is the right course for such students. This course will give learners self-confidence and give a new path to their future. Learners may be destined for starting a small enterprise and build their own future.

This is multi-skill program, which will expose him to variety of skills. Learners will work in Engineering-Construction, Energy-Environment, Agricultural and Animal husbandry, Health sections. This will help in identifying learner preferences for future vocation. The program based on philosophy of "Learning while doing". Students will get training by working in real life environment. Learner will also learn basic skill like Drawing, costing and project planning in DBRT program.

## **Objectives of the Course & Scope**

Diploma in Basic Rural Technology, comprising of theory & practical component, is intended to *give learners self-confidence and a new path to their future. Learners may be destined for starting a small enterprise and build their own future. This is multi-skill programme, which will expose them to variety of skills. Learners will work in Engineering-Construction, Energy-Environment, Agricultural and Animal husbandry, home and health sections. This will help in identifying learner's preference for future vocation.*

*The programme is based on philosophy of "Learning while doing". Students will get training by working in real life environment. Learner will also learn basic skills like Drawing, Costing and Project Planning in DBRT programme. The main objectives of this course are:*

- To train the students using 'Learning while Doing' Philosophy.
- It is intended to train them for income generation through self-employment.
- To train students in multi-skills.
- To train students in different technologies and transfer these technologies to the society through them.
- To involve students in various rural development activities as a project work. In terms of integrating rural development and Education.
- To make available various services to the community at the modest cost and giving real life training to the students.

## **Eligibility Criteria**

The admission for Diploma in Basic Rural Technology is open to those who fulfill the following criteria:-

- Class 8th passed (Any one, who is willing to work with hands, likes to tinker with machinery or play with animals or likes to grow plants, is well suited for this course. Learner should have passed the 8th standard school examination, so that learner can read and write fluently, do simple calculations.)

## **Job Opportunities**

After passing through this course, the students can do apprenticeship in one of the areas of his interest and develop his career. Multiskilling helps in getting a job in the following fields:

- Workshop in small scale industries / construction sites / Fabrication units

- Supervisor in agriculture and polyhouses / animal husbandry units such as poultry, dairy, goat farming etc.
- In food processing industries
- Electric and Electronics workshops

He can start his own enterprise after sufficient apprenticeship.

## Duration of the Course

The duration of the course is two years. However, one can complete the course within five years of registration by appearing in any external examination as per rules of NIOS in force from time to time. The AVIs will be responsible for the imparting of training, skills and competencies of a qualitative standard by adopting suitable training methods, strategies & systems.

**Attachment of Trainees:** Minimum 06 months attachment of trainee for internship.

**Scheme of Study:** 30% in Theory & 70% in Practical

Programme	Duration	Essential Contact Hrs. for Theory & Practical Training
Diploma in Basic Rural Technology	Two Years	600

## Course Curriculum

The course curriculum comprises of four modules having both theory & practical components.

Subjects/Papers for First Year	Subjects/Papers for final Year
<ul style="list-style-type: none"> <li>• Module - 1 Our Health</li> </ul>	<ul style="list-style-type: none"> <li>• Module – 3 Rural Engineering (Material, Mechanics, Drawing &amp; Costing)</li> </ul>
<ul style="list-style-type: none"> <li>• Module – 2 Agriculture &amp; Animal Husbandry</li> </ul>	<ul style="list-style-type: none"> <li>• Module – 4 Our Home Environment (Home Environment &amp; Basics of Electricity)</li> </ul>

Two of them related to the living world and two to the non-living. Our Health (related to human society), and Agriculture (Plant and animal Kingdom) give the skills related to clothing, food and health of the society. Agriculture covers the skill needed for production and preservation of food of both plant and animal origin, including care of plants/crops, birds and cattle and their breeding. The Rural Engineering (material-joining, shaping and otherwise fabricating into usable things, including housing) and Our Home Environment (application of Conventional Energy /Electricity and maintenance of Home Appliances). The content though it looks formidable, is easily worked through because of the 'learning while doing' method. Of course the mastery depends on the student putting hard work for practice, for which ample



opportunities are given. The students are encouraged to take on contract jobs involving these skills for practice and reinforcement. The study material will be provided in the form of self-Instructional print material and the practical component/training shall be provided to each student at the study centres(AVIs).

## Medium of Instruction

The medium of instruction is English. However efforts are on to offer this course in Hindi medium also in due course of time

## Instructional System

- Self instructional printed material
- visual support system
- Assignments
- Face to face counseling at AVIs/Study centres
- Practical/Training facilities at AVIs/Study centers
- On the job training wherever applicable/required.

## Scheme for Evaluation/Certification

There will be evaluation of both components, theory as well as the practical separately. Internal assessment will also be taken into account while computing final result. The scheme of Assessment, Evaluation and Certification will be administrated through the guidelines designed by NIOS. NIOS will award the final certificate according to its rules and regulations.

Basic Rural Technology Training Prog.	Theory		Practical		
	Max. Marks	Duration	Max. Marks In Practicals	Duration	Max. Marks in Project Work
Paper – I Our Health	30	1 hr	50	2 hrs	20
Paper – II Agriculture & Animal Husbandry	30	1 hr	50	2 hrs	20
Paper – III Rural Engineering (Material, Mechanics, Drawing & Costing)	30	1 hr	50	2 hrs	20
Paper – IV Our Home Environment (Home Environment & Basics of Electricity)	30	1hr	50	2 hrs	20

## Passing Criteria

- A trainee should secure 40% marks in each theory paper and 50% marks in each practical Test separately
- 50% marks in each Internal Assessment should also be secured by a trainee.

## Procedure for Internal continuous Assessment

### Practical / Training (Internal Assignments):

Assessment will be done by maintaining progress card of each candidate, indication assessment of each Practical / experiments. (Total Marks = 80)

## Course Fees:

A student will pay Rs. 4,000/- (AVI Share Rs. 3500/- & NIOS Share Rs. 500/-) for the full course and will receive a set of printed material. In addition, the examination fee will be paid separately as per the NIOS rules.

## Admission Procedure

Admission is done twice a year as per the dates notified by the NIOS. Application forms and Prospectus can be procured from either the NIOS or its Study Centres (AVIs)

## *Modalities for Offering the Course*

The institutions having the following basic infrastructure may apply for accreditation:

### (B) Basic Infrastructure

5. Class Room: Classroom to accommodate for 25 students (minimum area 225Sq. ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
6. One Lab: The Lab to accommodate for 25 students (minimum area at least 20 ft. x 25 ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
7. One Workshop: The workshop to accommodate for 25 students (minimum area at least 20 ft. x 25 ft.) should have black board/white board, proper ventilation, adequate lighting, furniture, exhaust and ceiling fans etc.
8. Agriculture land: Agriculture land for growing and cultivation the plants/crops.

Note:

Details for List of Tools /Equipments may be seen on NIOS website: [www.nios.ac.in](http://www.nios.ac.in)

**Library:** Library should have a minimum 20 books/articles/magazines etc. related subject.

**(B) Faculty & Supporting Staff**

<b>S.No.</b>	<b>Faculty &amp; Supporting Staff</b>	<b>Educational/Professional Qualification</b>	<b>No.</b>
1.	Coordinator	Graduate	01
2.	Instructor (part time)	Nursing Course	01
3.	Instructor – Agriculture & Animal Husbandry	Degree/Diploma in Agriculture/Animal husbandry-DBRT with sufficient practical experience.	01
4.	Instructor – Engineering	Degree/Diploma in Engineering discipline – ITI-DBRT with sufficient practical experience.	01
4.	Instructor – Electrical	Degree/Diploma in Engineering discipline – ITI –DBRT with sufficient practical experience.	01
5.	Instructor – Food lab	Class 12 <sup>th</sup> Pass – Home science or DBRT with practical experience in food processing	01
6.	Receptionist cum clerk	Relevant to job	01

**Batch Size** – Maximum 25 students in one batch.

**For application form for accreditation and details please contact:**

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Open Vocational Education Programme

*Certificate Course*

*in*

**FIRE PREVENTION &  
INDUSTRIAL SAFETY**



**NATIONAL INSTITUTE OF OPEN SCHOOLING**

# **Fire Prevention & Industrial Safety Vocational Training Programme**

The concept of fire safety, its origin and growth, nature and content, purpose and functions have undergone a sea change right from the early days to the present days. The fire proved to be a good companion but a bad master of human being. It has been observed that if a small fire is not controlled immediately it can play havoc at its source of origin as well as in its immediate vicinity. The need hence arose to have awareness amongst the community at large, so that a factor of courage and confidence is induced into people thereby they can firstly prevent the fire and in case fire does occur, they are able to control within time with minimum losses. The concept of fire safety originated and developed in the society keeping in mind the disastrous results, which may arise due to an explosion, fire and toxic release in an industry and also the fire in high-rise buildings and commercial establishments. It is equally important that the fire protection system is maintained up to date in usable conditions at all the times.

The demand for Fire and Industrial Safety Technicians, Officers, Firemen have increased manifold in the recent days due to the advancement of technology, cluster of petrochemical complexes and the fast lifestyle.

## **Objectives of the Course & Scope**

Prime objective of this programme is to produce skilled professionals who can play an important role in the area of Fire Fighting & safety and also provide the necessary services especially to industries and high-rise building establishments. After successfully passing this course, it is expected that the trainees would be able to:

- Gain more knowledge about fighting and industrial safety.
- Identify the causes of fire related accidents i.e. fire from chemicals, gases, electrical wiring etc.
- Participate in Manufacturing in portable & fixed fire fighting systems
- Install fire-fighting systems in fire prone establishments.
- Provide Maintenance services to portable fire equipment and fixed fire fighting installations.
- Keep personal protective Equipment in usable conditions.
- Ensure the Emergency Preparedness.
- Assist the Fireman and Safety Officers.
- Indulge in Rescue operations.

- Render Industrial, Rural & Urban fire, Safety, Service and first aid to the casualties.
- Have an overview of Industrial Safety.
- Identify industrial safety problems and their remedies.
- Detail safety subject in their content elements.
- Schedule and comply statutory compliance.

## **JOB OPPORTUNITIES**

After completion of the course, one can get employment in various industrial units, local bodies, municipal corporations and municipalities, high rise buildings, multiplexes, hotels, docks, airports, fire fighting stations projects etc.

### **3.1 WAGE EMPLOYMENT**

Employment as Fireman, Fire Fighter, Fire Guard in the following sectors:

- Industries
- Hotels
- Airports
- Docks
- High rise buildings
- Fire Fighting Stations
- Hospitals etc.

### **3.2 SELF EMPLOYMENT**

- A person can get agency/dealership of fire fighting equipments.
- A person can set up his own service centre/ repair shop.
- A person can get a maintenance contract.
- A person can set up a small assembling/ manufacturing unit.

## **Eligibility Criteria**

Educational Qualification : Class 8<sup>th</sup> pass

### **Physical Fitness:**

Height: Min. 165 cms (150 cms for female)

Weight: as per standard table of height and weight

Normal chest: 82.5 cms and Expanded chest: 87.5 cms (For male)

Eye sight vision: distance 6/6, Near 6/6, No night & coloured blindness

Hearing: Able to hear clearly

No knock Knee

No flat foot

Able to run minimum one Km. in 06 minutes

## **Duration of the Course : Six Months**

The duration of the course is 06 months. However, one can complete the course within five years of registration by appearing in any external examination as per rules of NIOS in force from time to time. The AVIs will provide the training, skills and competencies of a qualitative standard by adopting suitable training methods, strategies & systems.

**Attachment of Trainees:** Minimum 01 months attachment of trainee for internship.

### **SCHEME OF STUDY**

<b>Programme</b>	<b>Duration</b>	<b>Essential Contact Hours</b>	<b>Total study Hrs.</b>
Certificate Course in Fire Prevention & Industrial Safety	Six Months	Essential Contact Hrs for practical including related theoretical instructions/ Demonstration	300

### **PRACTICAL ATTACHMENT:**

1 month in a fire station either in industry, airport, dock or municipal fire service

## **Course Contents**

The course curriculum has both theory & practical components. The theory component given below, is provided in the form of self-study print material.

- Fire : phenomenon and Types
- Fire prevention and protection
- Portable Fire Fighting Equipment Use, Care and Maintenance.
- Fixed Fire Fighting Installations Use, Care and Maintenance
- small Gears
- personal protective Equipment Use, Care and Maintenance
- Rescue Operations
- First aid
- Salvage
- Emergency Preparedness and Response
- Introduction to Industrial Safety
- Industrial Safety: Problems and their Remedies
- Safety System Elements and Documentation

The practical component/training shall be provided to each student at the study centres(AVI's).

## **Medium of Instruction**

The medium of instruction is available in English & Hindi medium also.

## **Instructional System**

- Self instructional printed material
- Audio and visual support system
- Assignments
- Face to face counselling at AVIs/Study centres
- Practical/Training facilities at AVIs/Study centers
- On the job training wherever applicable/required.

## **Scheme for Evaluation Certification**

There will be evaluation of both components, theory as well as the practical separately. Internal assessment will also be taken into account while computing final result. The scheme of Assessment, Evaluation and certification will be administrated through the



guidelines designed by NIOS. NIOS and Indian Medical Association will jointly award the final certificate according to its rules and regulations.

Training Prog.	Theory			Practical			Total
<b>Paper:</b>  Fire Prevention & Industrial Safety	External		Internal Assessment	External		Internal assessment	
	Max. Marks	Time	Max. Marks	Max. Marks	Time	Max. Marks	Max. Marks
	80	3hrs	20	150	4hrs	50	300

### Passing Criteria

S No.	Subject for the trade test	Max. Marks in Theory	Minimum % for pass	Minimum Marks required for pass
1.	Theory including Internal Assessment	100 (Written Test Paper- 80) (Internal Assessment- 20)	<u>40%</u>	<u>40</u>
2.	Practical including Internal Assessment	200 (Practical Test-150) (Internal Assessment- 50)	<u>60%</u>	<u>120</u>

A trainee should secure 40% marks in aggregate in theory including Internal Assessment.

A trainee should secure 60% marks in aggregate in practical Test including Internal Assessment.

### **Procedure for Internal continuous assessment**

**Theory:** 2 Tests of 10 marks each to be conducted after every 40 days(2x10=20):

Total marks 20

### **Practical/Training (Internal Assignments) :**

Assessment will be done by maintaining progress card of each candidate, indication assessment of each Practical/experiments.

Total Marks = 50

## **Course Fee**

Rs.7, 000/- (Rupees Seven thousand only)

(NIOS Share Rs.1, 000/- and AVI Share Rs.6, 000/-)

A student will pay Rs.7,000/- (Rupees Seven thousand only) for admission. In addition, the examination fee will be paid separately as per the NIOS rules.

## **Admission Procedure**

Admission is done twice a year as per the dates notified by the NIOS. Application forms and Prospectus can be procured from either the NIOS or its Study Centres (AVIs)

## ***Modalities for Offering the Course***

The institution having the following requisite infrastructure, may apply for accreditation:

**Class Room:** Classroom for 30 students (minimum area 400Sq. ft.) should have proper ventilation, well-illuminated black board/white board and availability of adequate furniture and ceiling fans.

**Exhibit:** Minimum Size – 600 Sq. Ft. preferably display racks etc. well ventilated and illuminated)

**Field:** Field should have capacity to accommodate minimum 50 students for P. T. Practical Training etc.

- Fixed system
- Portable system
- Small gears

(LIST OF TOOLS /EQUIPMENT REQUIRED FOR PRACTICAL/TRAINING AVAILABLE AT OUR WEB SITE)

### **Educational Technology Equipment**

- Coloured TV
- Multimedia Computer
- CD player
- OHP/LCD

**Library:** Library should have a minimum 10 books/articles/magazines etc. related subject.

**Staff Requirements:**

Faculty & Supporting Staff	Educational/Professional Qualification	No.
Coordinator	Educated/Professional generally Head of the institution/Deptt.	01
Instructor (theory)	Diploma in Fire engineering Or Fireman certificate course with 1 year experience Certificate	02
Instructor (practical training )	- Do -	
Receptionist cum clerk	Relevant to job	01

**Batch size** – Maximum 30 students in one batch.

Note : Institute can run maximum 2 batches of this course

***For application form for accreditation and details please contact:***

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*Open Vocational Education Programme (HPM)*

**CERTIFICATE COURSE  
IN  
AYURVEDIC  
THERAPY**



**NATIONAL INSTITUTE OF OPEN SCHOOLING**

# **CERTIFICATE COURSE IN AYURVEDIC THERAPY**

Ayurveda is an age old Indian system of medicine. There are many Government and private colleges for undergraduate programmes in Ayurveda, but there are no institutions imparting paramedical knowledge in this field. This has resulted in unqualified persons being engaged in hospitals, dispensaries and clinics in the country. There is thus a considerable demand from Ayurvedic Pharmacies, Herb Collection Centres, Ayurvedic Hospitals, Panchakarma Units and numerous individual vaidyas.

*In view of a considerable demand of the Ayurvedic technicians, a 'Vocational Certificate Training Programme: Ayurvedic Therapy' is being introduced by NIOS which will strongly support to the Ayurvedic field and prepare the skilled Paraprofessionals. The Self – Instructional Material of this Programme, comprising of theory & practical consists of two Modules:*

1. Fundamentals of Ayurveda &
2. Introduction to Different Therapies in Ayurveda

The knowledge and the skills gained through this course will equip the learners with the advance training in Ayurvedic Technologies. This Course will develop the ability to assist in making Ayurvedic medicines and dispensing drugs. This Programme would develop the multi competences & skills in the learner, to provide the different Ayurvedic therapies like Panchakarma, massage, marma etc.

## **Objectives of the Course & Scope**

Certificate Course in Ayurvedic Therapy, comprising of theory & practical component, is intended to prepare '*Trained Qualified Ayurveda Technicians*'. This course will provide the quality of education and training at reasonable cost in the Training Centres, having qualified teachers and other infrastructure facilities. It will also meet the needs of the employed Ayurvedic technicians for formal training through open learning mode. The knowledge and the skill gained through this course will equip the learners with the advance training in ayurvedic technologies. *The main aim of this is to train the 'Ayurvedic Technicians' to fulfill the requirement in various sectors of Ayurveda.*

It is also expected that the Vocational Training of this Programme would develop the multi competences & skills in the learner, to provide the different Ayurvedic therapies like Panchakarma, massage, marma etc.

## **Eligibility Criteria**

The admission for Ayurvedic Therapy is open to those who fulfill the following Criteria:-

- 12<sup>th</sup> class pass from any Board of School Education with Science subjects

or

10<sup>th</sup> Class pass from any Board of School Education with Science subjects for those candidates who are engaged in this field.

- Minimum age 18 years or above

## Target Group

- Persons already employed as technicians, but not qualified, in Ayurvedic techniques
- Young persons seeking a vocation in this field after completion of Sr. secondary level
- Students intending to pursue undergraduate studies in Ayurvedic colleges

## Job Opportunities

*The main aim of this is to train the 'Ayurvedic Technicians' to fulfill the requirement in various sectors of Ayurveda. After passing this course, the trainees will have job opportunities as a 'Ayurvedic Technicians' or equivalent in the Ayurvedic Pharmacies, Herb Collection Centres, Ayurvedic Hospitals, Panchakarma Units and numerous individual vaidyas.*

## Duration of the Course: **One Year**

The duration of the course is one year. However, one can complete the course within five years of registration by appearing in any external examination as per rules of NIOS in force from time to time. The AVIs will be responsible for the imparting of training, skills and competencies of a qualitative standard by adopting suitable training methods, strategies & systems.

**Attachment of Trainees:** Minimum 06 months attachment of trainee for internship.

## Scheme of Study:

Paper	<u>Theory</u>	<u>Practical Training</u>	Total Essential Contact Hrs.
Essential Contact Hrs.	120 Hrs.	180 Hrs.	300 Hrs.

## Curriculum & Course

The course curriculum comprises of two modules having both theory & practical components. The theory courses given below are provided in the form of self-study print material. The practical component/training shall be provided to each student at the study centres(AVI's).

Subjects/Papers - 1	Subjects/Papers - 2
<p>Module – 1 Fundamentals of Ayurveda</p> <ul style="list-style-type: none"> <li>➤ Section I: Introduction to Ayurveda</li> <li>➤ Section II: Anatomy &amp; Physiology (Sarira Rachana &amp; Sarira Kriya)</li> <li>➤ Section III: Fundamentals of Pathology and Diagnosis</li> </ul>	<p>Module – 2 Introduction to different Therapies (Ayurveda)</p> <ul style="list-style-type: none"> <li>➤ Introduction to different therapies in Ayurveda and Family welfare through Ayurveda</li> <li>➤ Panchakarma – principles and applied aspects, preparations used for panchakarma</li> <li>➤ Massage</li> <li>➤ Marma etc.</li> </ul>

## Medium of Instruction

The medium of instruction is English and Hindi.

## Instructional System

- Self instructional printed material
- Audio and visual support system
- Assignments
- Face to face counselling at AVIs/Study centres
- Practical/Training facilities at AVIs/Study centers
- On the job training wherever applicable/required.

## Scheme for Evaluation Certification

There will be evaluation of both components, theory as well as the practical separately. Internal assessment will also be taken into account while computing final result. The scheme of Assessment, Evaluation and certification will be administrated through the guidelines designed by NIOS. NIOS will award the final certificate according to its rules and regulations.

S. No	Subject/ Paper	Theory Paper		Practical / Training		Assign ment	Total Marks
		M. Marks	Hours	M. Marks	Hours	M. Marks	
01.	<b>Module – 1</b>  Fundamentals of Ayurveda	80	3	100	3	20	200
02.	<b>Module – 2</b>  Introduction to Different Therapies in Ayurveda	80	3	100	3	20	200
	<b>Grand Total</b>						400

**Passing Marks:** A candidate should secure 40% marks in theory and 50% marks in Practical Training separately including assignment for successfully passing.

## Course Fee

A student will pay Rs. 10,000/- for the full course and will receive a set of printed materials. In addition, the examination fee will be paid separately as per the NIOS rules.

## Admission Procedure

Admission is done once a year as per the dates notified by the NIOS. Application forms and Prospectus can be procured from either the NIOS or its Study Centrs (AVIs)



# ***Modalities for Offering the Course***

The institute having the following infrastructure may apply for accreditation:

## **(B) Basic Infrastructure**

**Class Room:** Classroom to accommodate for 25 students (minimum area 225 Sq. ft.) should have a black board/white board, adequate furniture, exhaust and ceiling fans etc. with proper ventilation & adequate lighting.

**OPD Facility:** The institution should have an OPD (Doctor's Chamber, dispensing & Therapy Chambers)

**Therapy & Instruments Chambers:** Separate Therapy Chambers for male & Female should have washable non-slippery floor, Patient's tables (7 ft X 3 ft X2 ft), exhaust & ceiling fans etc. with proper ventilation & adequate lighting. The Therapy Chambers may have also the Box for *swedana*, *Nadisweda yantra*, *Shirodhara yantra*, Medicated Ayurvedic oils i.e. *Dashamoola kwath*, *Dashamoola Tel*, *Mahanarayan* and *Panchaguna* etc. or separate room may also be used for the instruments.

**Library:** Library should have a minimum 10 books/articles/magazines etc. related subject.

## **(C) Faculty & Supporting Staff**

S. No.	Faculty & Supporting Staff	Educational/Professional Qualification	No.
1.	Coordinator	Graduate	01
2.	Instructor (BAMS Doctor)	BAMS	01
3.	Technical Asstt.	Certificate/Diploma in Ayurvedic Therapy/Panchakarma  OR  12 <sup>th</sup> class passed & minimum 02 years experience in Ayurvedic Therapy/Panchakarma	02
4.	Receptionist cum clerk	Relevant to job	01

**Batch size** – Maximum 25 students in one batch.

***For application form for accreditation and details please contact:***

*The Director (Vocational)*  
*National Institute of Open Schooling*  
*A – 24/25, Sector – 62, Institutional Area*  
*Noida (Uttar Pradesh)*  
*Phone 0120 – 4089818 Fax – 4089819*  
*Email:*  
Our website: [www.nios.ac.in](http://www.nios.ac.in) or [www.nios.org](http://www.nios.org)

## Norms for Accreditation

### Ayurvedic Therapy Course

The institute having the following infrastructure may apply for accreditation:

#### **Basic Infrastructure**

**Class Room:** Classroom to accommodate for 25 students (minimum area 225 Sq. ft.) should have a black board/white board, adequate furniture, exhaust and ceiling fans etc. with proper ventilation & adequate lighting.

**OPD Facility:** The institution should have an OPD (Doctor's Chamber, dispensing & Therapy Chambers)

**Therapy & Instruments Chambers:** Separate Therapy Chambers for male & Female should have washable non-slippery floor, Patient's tables (7 ft X 3 ft X2 ft), exhaust & ceiling fans etc. with proper ventilation & adequate lighting. The Therapy Chambers may have also the Box for *swedana, Nadisweda yantra, Shirodhara yantra*, Medicated Ayurvedic oils i.e. *Dashamoola kwath, Dashamoola Tel, Mahanarayan and Panchaguna etc. or separate room may also be used for the instruments.*

**Library:** Library should have a minimum 10 books/articles/magazines etc. related subject.

#### **(D) Faculty & Supporting Staff**

S. No.	Faculty & Supporting Staff	Educational/Professional Qualification	No.
1.	Coordinator	Graduate	01
2.	Instructor (BAMS Doctor)	BAMS	01
3.	Technical Asstt.	Certificate/Diploma in Ayurvedic Therapy/Panchakarma OR 12 <sup>th</sup> class passed & minimum 02 years experience in Ayurvedic Therapy/Panchakarma	02
4.	Receptionist cum clerk	Relevant to job	01

**Batch size** – Maximum 25 students in one batch.

## Norms for Accreditation

### DIPLOMA COURSE IN BASIC RURAL TECHNOLOGY

The institute having the following infrastructure may apply for accreditation:

#### A. Basic Infrastructure

- (i) **Class Room:** Well ventilated, illuminated Classroom for 25 students (minimum area 225 Sq. ft.) should have black board/white board, adequate furniture and also with the availability of exhaust & ceiling fans.
- (ii) **One Lab:** Well ventilated, illuminated Lab (at least 20 ft. x 20 ft. for 25 students) should have black board/white board, adequate furniture and also with the availability of exhaust & ceiling fans.
- (iii) **One Workshop:** Well ventilated, illuminated workshop (at least 20 ft. x 20 ft. for 25 students) should have black board/white board, adequate furniture and also with the availability of exhaust & ceiling fans.
- (iv) **Agriculture land:** Agriculture land for growing and cultivation the plants/crops.

The institution should have the tools/equipments/apparatus or material as per list enclosed, for Practical Training:

**Library:** Library should have a minimum 20 books/articles/magazines etc. related subject.

#### B. Faculty & Supporting Staff

S. No.	Faculty & Supporting Staff	Educational/Professional Qualification	No.
1.	Coordinator	Graduate	01
2.	Instructor (Part time)	Nursing course	01
3.	Instructor – Agriculture & Animal Husbandry	Degree/Diploma in Agriculture /Animal husbandry	01
4.	Instructor – Engineering	Degree/Diploma in Engineering discipline – ITI with sufficient practical experience.	01
4.	Instructor – Electrical	Degree/Diploma in Engineering discipline – ITI with sufficient practical experience.	01
5.	Instructor – Food lab	Class 12th Pass – Home science or practical experience in food processing	01
6.	Receptionist cum clerk	Relevant to job	01

S. No.	Tools/Equipments	Req. Qua.
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C.  
size –

Batch

Maximum 25 students in one batch.

1	Screw Driver 12"	4
2	Hacksaw Frame 12"	4
3	Spanners 16/ 17- 20/21	4
4	Spanners 11-14	4
5	Adjustable Spanners 11-21	2
6	Combination Pliers	4
7	Rectangular Files Rough	4
8	Rectangular Files Fine	2
9	Ring Spanner Set	1
10	SS Ruler 12" Scale	4
11	SS Meter Scale	2
12	Bench Vices 4"	1
13	Tread Gauge	3
14	Wire Gauge 55	1
15	Welding Transformer 8 Kva, 1/3 hp	1
16	Screen , Cable , Holder	2
17	Tounge and Gloves	2
18	Oil Can	2
19	Grease Gun	1
20	Round Files 8"	1
21	Triangular Files	4
22	Shearing Machine 10"	1
23	Bench Drill 13mm Single Phase	1
24	Bench Grinder	1
25	RSS Drill Bit Set 4mm - 12mm	1
26	Hammer 1/2 Kg	2
27	Hammer 1Kg	2

28	Hammer 5 Kg	1
29	Tin Shears	5
30	Tap and Dies BSW - 3/4 "	1
32	Drill Bites for above	1
33	Pipe Treading dies	
	1/2",3/4",1",1 1/4",2",2 1/2",3"	1
34	Pipe Wrenches 2and 3	2
35	Calipers , Inside and Outside	1
	<b>Measurement</b>	
1	Max - Min Thermometer	1
2	Wet - Dry Thermometer	1
3	Rain Gauge	1
4	Oil Measure 50ml and 0.5 Lit.	2
5	Milk Measure 250 ml , 500ml and 1Litre	3
6	Measuring Cylinder 100ml	2
7	Measuring Cylinder 500ml	1
8	Grad. Pipettes 0.02 - 1ml	2
9	Student Vernier	2
10	Vernier Caliper Model	1
11	Spring Balance 10 Kg	2
12	Post Office Balance	1
		Total
	<b>Soldering</b>	
1	Soldering Iron	4
2	Blow Lamp	2
3	Electric Soldering Iron 65w	2

		Total
	<b>Carpentry</b>	
1	Panel saws 12"	4
2	Chisels 1/4"	5
3	Chisels 1/2"	5
4	Chisels 1/5"	5
5	Rasp Files	2
6	Claw Hammer	1
7	Jack Plane	4
8	Spirit Level	2
9	Mallets	4
10	Portable Hand Drill Machine	2
11	Auger 1/2', 3/4'	2
12	Cross Axe	1
13	Carborendum Stone	1
	<b>Construction</b>	
1	Ghamelas	4
2	Trowels	4
3	Masonry Chisel	1
4	Masonry Drill Bit 8mm	1
5	Plumb Line	2
		Total
	<b>Energy and Environment</b>	
1	Tester	4
2	Screw Driver 6"	4
3	Measuring Tape 3m	4
4	Pliers	4

5	Switches	20
6	Lamp Holders	20
7	3 Pin Plugs	10
8	3 Pin Sockets	4
9	Transformer 230/155 , 100W	1
10	Digital Multi-meter	1
11	Wiring Folding Boards	10
12	Cutting Pliers	2
13	Nose Plier	2
14	Tube Light	2
15	Voltmeter ,0 - 500V	1
16	Ammeter , 0-200Amp	1
17	Solar Cooker	1
18	Pressure Stove	1
19	Wick Stove	1
20	Biogas Stove	1
21	Smokeless Chula	1
22	Topo Sheets 1: 25000	4
23	Plane Table Survey Kit	2
24	Compass Prismatic	1
25	Cloth Measure Tape 30m	1
26	Pantograph	1
27	Dumpy Level	1
28	Hand Pump Repair Kit	1
29	Pipe Treading dies 1" - 1/4 "	1
30	Rod Treading Dies 13mm	1
31	Rod Treading Dies 1/2"	1



		Total
	<b>Agriculture and Animal Husbandry</b>	
1	Ghamelas	4
2	Khurpi	4
3	Khore	2
4	Tikav	2
5	Vila	4
6	kurhad	2
7	Showels	4
8	Buckets	2
9	10 Kg Balance	1
10	Knapsack Spayer	1
11	Aspi Bolo Sraye	1
12	Hand Rotary Duster	1
13	Budding Knife	2
14	Measuring Cylinders 100ml	2
15	Milk Measure 250 ml ,500ml and 1Litre	3
16	Thermos	1
17	Lactometer	1
		Total
	<b>Home and Health</b>	
1	Heamoglobinometer	1
2	Calorimeter	1
3	Pocket Refractometer	1
4	Clinical Thermometer	1
5	First Aid Kit	1
6	Sewing Machine (Pedal operated)	1

7	Pressure Cooker and	
8	Slicer , Knives , Utensils etc.	1
9	Blood Group Detection Kit	1
10	Knitting Needles 2.5	20