

Maharashtra Arogya Mandal's

# Sumatibhai Shah Ayurved Mahavidyalaya

\* An ISO 9001:2015 Certified Mahavidyalaya  
\* NABH Accredited & ISO 9001:2015 Certified Hospital

Malwadi, Hadapsar, Pune - 411028

**Recognized by :** Government of India, Ministry of Health & Family Welfare,  
(Department of AYUSH) N.C.I.S.M, Ministry of AYUSH, Government of India New Delhi &  
Government of Maharashtra. Affiliated to Maharashtra University of Health Sciences, Nashik.



॥अभ्यासात् प्राप्यते दृष्टिः  
कर्मसिद्धिप्रकाशिनी ॥

## 2.6.3 PROGRAM SPECIFIC LEARNING OUTCOMES

Program specific learning outcomes for MD/ MS/ DIPLOMA in various subjects-

### Ayurved Samhita Siddhant-

The student should be able to:

1. Describe and relate the concepts and basic principles of Ayurveda.
2. Correlate the contributions of ancient and new authors and commentators to utilize the knowledge in practice.
3. Infer classical literature for proper diagnosis and planning treatments for complex and chronic diseases.
4. Analyze and implement the basic principles of Ayurveda in treatment.
5. Undertake research in the field of Ayurvedic literature and clinical research.
6. Develop vision so as to serve as best teacher & practitioner for the benefit of mankind.
7. Conduct research on various topics in Ayurvedic compendia.
8. Express knowledge in Ayurvedic Compendia (Bruhatrayi, Laghutrayi, Shad Darshanas & various Kosha Granthas.) with the help of Samskruta Commentories
9. Give advice for health and lifestyle management through Dinacharya, Rutucharya, Sadvrutta etc.
10. Demonstrate practical & clinical utility of Ayurvedic fundamentals.
11. Advocate chikitsa siddhantas for Appropriate treatment of diseases and Panchakrma procedures in healthy and diseased conditions

### Kriya Sharir-

Institute offers M.D. /M.S./ Diploma (Ayu) Programmes affiliated to Maharashtra University of health Sciences, Nashik at wide range. A total number of 13 Post graduate Degree and one Post graduate Diploma courses are going n institute level. Dept. of KriyaSharir offers M.D. (Ayu) Course in KriyaSharir since 2000.

1) The Programme in M.D. (Ayurved) KriyaSharir will bring out a definite contribution to advancement of knowledge in the candidate's specific field i.e. clinical / academic.

2) This course in PG KriyaSharir aims that PG student to think, understand and learn the philosophy and the ethos of KriyaSharir .He/ She will be able to think and explain basic principles in KriyaSharir i.e. Doshadhatu Mala vidnyan Also, they shall be able to elaborate Samprapti of each disease with the help of different samhitas and to undertake a detailed comparative study of Ayurved and modern concepts of KriyaSharir.



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College No.: 020-29522505, 29522506 Hospital No.: 020 - 29522502

3) They should study and elaborate the Ayurvedic concepts of Tridosh Theory, DhatuSnehaparampara etc. scattered in different Samhitas. PG student will be able to analyze and record the fundamental parameters like DehaPrakriti, DhatuSarata, and Mala Parikhan in healthy individuals to acquire good skills in written and applied physiology by developing their skills of Ayurveda and make them competent to apply in clinical practice and research.

4) One of the unique approaches of Ayurveda is the individualized treatment of the disease which recognizes every individual with a specific constitution known as Prakriti. The determination of Prakriti has significant importance in the healthy/unhealthy states of an individual. This information can be successfully applied clinically in diagnosis, treatment for deciding appropriate drug, dose, duration, diet and lifestyle, and prognosis of the disease. So Post graduate student of KriyaSharir should get complete knowledge about PrakritiParikshan.

5) This course will contribute to transdisciplinary research and development by employing innovative and creative ways in all fields. i.e. clinical/ academic

### **Rachana Sharir-**

- 1 Describe and relate the concepts and basic principles of Ayurveda.
2. Correlate the contributions of ancient and new authors and commentators to utilize the knowledge in practice.
3. Infer classical literature for proper diagnosis and planning treatments for complex and chronic diseases.
4. Undertake research in the field of Ayurvedic literature and clinical research.
5. To understand the normal disposition, clinically relevant inter-relationships, functional and cross sectional anatomy of the various structures in the body.
6. To identify the microscopic structure and correlate elementary ultra structure of various organs and tissues and correlate the structure with the functions as a prerequisite for understanding the altered state in various disease processes
7. Understand the principles of newer imaging techniques like Ultra sound, Computerized Tomography Scan (CTS); Interpretation of Plain and contrast X-rays.
8. Understand clinical basis of some common clinical procedures i.e. intramuscular and intravenous injection, lumbar puncture, etc.
9. Develop vision so as to serve as best teacher & practitioner for the benefit of mankind.
10. Conduct research on various topics in Ayurvedic compendia.
11. Express knowledge in AyurvedaRachanaSharir and Anatomy
12. Demonstrate practical & clinical utility of Ayurvedic fundamentals.

### **Dravyaguna Vidnyan-**

The post graduate course programme is designed to empower post graduate student with thorough knowledge of Dravyaguna subject to apply in clinical practice, pharmaceutical industry so on.

The post graduate student will become critical thinker, sound researcher too.

The post graduate student will learn latest technologies in research, drug development and drug manufacture sectors.

The post graduate student will promote utilization of ancient Vrukshayurved techniques in cultivation in order to produce high quality medicinal plants.



The post graduate student will adopt to recent advances in conservation of medicinal plants, natural flora.

### **Rasashastra Bhaishajya Kalpana-**

The program is designed to empower the PG students with knowledge and skills, and required confidence for the application of knowledge and skills. The PG students develop research skills, acquire the latest theoretical knowledge regarding Rasashastra and Bhaishajya Kalpana, and become critical thinkers. They also have knowledge of fields related to Rasashastra and Bhaishajya Kalpana, study a field of interest, and acquire skills in new technologies and methods related to preparation of Ayurvedic medicines.

### **Rognidan- Vikruti Vidnyan-**

-Our aim is to mould a PG student to be an authority in RognidanavumVikrutivigyan and make him a PG expert in the subject with the “Heart of Modern Medicine but a Brain of Ayurved”

-It is always our endeavour to make the PG student to think, understand and learn the philosophy and the ethos of RognidanAvumVikrutivigyan. Our PG shall be able to think and explain the aetio-pathogenesis (samprapti) of newer disease and also about other unexplained and unnamed disease with the help of sound knowledge of ‘NidanPanchak’ and VyadhiGhatak. Also, they shall be able to elaborate Samprapti of each disease with the help of different samhitas and to undertake a detailed comparative study of Ayurved and modern concepts of disease pathogenesis and clinical features. They should study and elaborate the Ayurvedic concepts of Vyadhikshamatva, dhatvagnimandya etc. scattered in different samhitas.

-We should enable them to carry out a fine balance between modern laboratory techniques for investigations and traditional skills for clinical diagnosis and they should inculcate the fine skills in modern laboratory techniques so as to become expert in the diverse fields of hematology, pathology, biochemistry, microbiology and histo-pathology and parasitology.

-Out PG student also be well versed in learning other investigations viz. X-rays, USG, C.T. scan, MRI, ECG or bedside procedures viz. biopsy, pleural or ascitic tapping. This shall certainly help them achieve our main aim i.e., to enable them to be judicious in their advice regarding carrying out investigations. They shall also learn the required applied knowledge about the importance and significance of all the investigations and diagnostic procedures so as to inculcate in them the ideal clinical methods to examine the patient and to enable them to communicate with the patient in a lucid manner so as to understand both the patient as well as his disease.

-Lastly but not the least to teach PG not only the science but also the art of practicing as a humane professional, a learned PG degree holder, an able clinician and a successful physician is the one who has mastered PG degree in RognidanavumVikrutivigyan.

### **Swastha Vritta-**

#### **• PSOs 1 Cognitive Skill :**

1. Students of M.D. Swasthavritta & Yoga course will have an ability to describe concept of Swasthavritta in socio-cultural, developmental and environmental aspects of health.



2. Students of M.D. Swasthavritta & Yoga course will have an ability to describe Dinacharya and Rutucharya in today's era and probable physiological effect of these procedures.

3. Students of M.D. Swasthavritta & Yoga course will have an ability to develop scientific aptitude and expertise relating to Trayopasthambha of Ayurveda, Yoga and Naturopathy with basic and applied understanding of Ayurveda Principles.

• **PSOs 2 Higher Cognitive Skill:**

1. Students of M.D. Swasthavritta & Yoga will have an ability to plan, execute, manage, maintain and rehabilitate concept of Prevention to maintain Health status of individual and community as a whole.

• **PSOs 3 Psychomotor Skill:**

1. Students of M.D. Swasthavritta & Yoga will have capability to apply Lifestyle Modifications according to Ayurveda with the help of Yoga therapy and Naturopathy.

2. At the end of the course students of M.D. Swasthavritta & Yoga will develop scientific aptitude and expertise as a diet consultant to the community.

• **PSOs 4 Affective Skill:**

1. At the end of the course students of M.D. Swasthavritta & Yoga will be able to apply the principles and components of Primary Health Care and the National Health Policies to achieve the goal of "Health for All".

2. Students of M.D. Swasthavritta & Yoga will provide scientific assistance in Public Health sector and Health Care Administration and health supervision verticals of Healthcare System in India and abroad.

**Kaumarbhritya-**

1. After the completion of PG course student must be fulfilled with good quality academic education and practical training to handle various pediatric emergencies.

2. PG Student must have good in counselling and communication skills.

3. At the end of this PG course students should be able to attend the pediatric patients with good history, clinical examination and differential diagnosis confidently.

4. Student should be efficient in teaching at the end of the PG course.

5. Student should take interest in research like to publish articles, research papers, case studies in national & International peer reviewed journals to make evolution in the subject of pediatrics.

6. Student should be able to perform medical, ethical and legal practices.

7. Student should be confident to serve the society with good quality of medical knowledge and practicing skills.

**Kayachikitsa-**

Students will be able to perform emergency management of critical ill patients & ward procedures.

They will increase the awareness regarding Geriatric care by Rasayan Chikitsa, Vajikaran Chikitsa.



They can educate the Patients regarding importance of Yoga, Exercise, Diet, Pathyapathya, Dinaharya, Rutucharya, in COVID-19

They can explain the patients regarding preventive measures of non communicable diseases such as Diabetes Mellitus, Hypertension, Obesity, Thyroid disease.

They can increase Social awareness regarding communicable disease such as swinflu, Dengue, Chikungunya, TB, Leprosy, HIV Infections, AIDS, Syphillis, Gonorrhoea, Chanchroids, Fungal infections (Candidiasis) .

#### **Panchakarma-**

- The postgraduate student of Panchakarma will be able to interact with patients about different procedures of Panchakarma
- They will be able to diagnose, analyze and prescribe Panchakarma procedures to the patients in different systemic diseases considering the different stages of disease.

They will be able to perform different Panchakarma procedures and will practice the Panchakarma as a special branch in different global health problems and serve the society

#### **Shalya Tantra-**

- Able to understand of Shalyatantra e.g. Vrana, Anushalyakarma, Bhagna etc.
- Application of modern surgical knowledge along with Shalyatantra
- Able to conduct various operations indecently
- Acquire the updated skills in modern surgical procedures such as laparoscopy, colonoscopy, gastroscopy, laser surgery etc
- PG students will be good humane surgeon

#### **Shalakyatantra-**

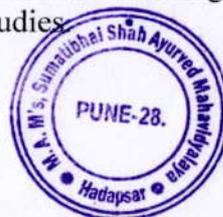
Comprehensive Understanding of Shalakyatantra- Graduates will demonstrate an in-depth understanding of the principles, concepts, theories, and practices of Shalakyatantra, encompassing both classical and contemporary knowledge.

2. Proficiency in Diagnosis and Treatment- Graduates will possess the ability to proficiently diagnose diseases related to eyes, ears, nose, throat, and head using classical Ayurvedic diagnostic techniques along with modern diagnostic tools, and formulate effective treatment strategies based on Ayurvedic principles.

3. Integration of Traditional and Modern Approaches- Graduates will be able to integrate traditional Ayurvedic principles with modern advancements in medical science for the effective management of diseases in Shalakyatantra, ensuring a holistic approach to healthcare delivery.

4. Research and Critical Analysis Skills- Graduates will demonstrate competency in conducting research related to Shalakyatantra, including critical analysis of existing literature, designing research methodologies, collecting and analyzing data, and interpreting research findings to contribute to the advancement of knowledge in the field.

5. Effective Communication and Teaching Skills- Graduates will be proficient in communicating complex concepts of Shalakyatantra effectively to various stakeholders, including patients, peers, and students, and demonstrate teaching skills to impart knowledge to undergraduate students pursuing Ayurvedic studies.



6. Ethical Practice and Professionalism- Graduates will adhere to ethical principles and professional standards in the practice of Shalakyatantra, demonstrating compassion, integrity, and respect for patients' autonomy, cultural beliefs, and confidentiality.

7. Continuous Learning and Professional Development- Graduates will recognize the importance of lifelong learning and professional development in the field of Shalakyatantra, actively engaging in continuing education, attending conferences, workshops, and seminars, and staying updated with the latest advancements in the field.

Program specific learning outcomes for PHD in various subjects-

### **Ayurved Samhita Siddhant-**

The student should be able to:

1. Inculcate the research acumen in the undergraduate students while teaching the Samhitas.
2. Identify the research areas wherein the new projects can be written, submitted for the fund raising to the appropriate agencies.
3. Bring the own research topic into the social domain for the benefit of the society.

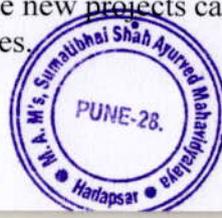
### **Kriya Sharir-**

The institute offers PhD programmes affiliated to Maharashtra university of Health Sciences, Nashik (MUHS) at wide range, a total number of 13 PhD courses are going on at the institute level. Dept. of KriyaSharir offers PhD course in KriyaSharir i.e. PhD (Ayu) KriyaSharir.

- 1) The course in PhD (Ayu) KriyaSharir will bring out a definite contribution to the advancement of knowledge in the candidates specific field i.e. clinical / Academic.
- 2) The Ph.D. scholars shall learn the required applied knowledge about the importance and significance of all the investigations and diagnostic procedures so as to inculcate in them the ideal clinical methods to examine the patient and to enable them to communicate with the patient in a lucid manner so as to understand both the patient as well as his disease.
- 3) The Ph.D. scholars should be an authority in the field of KriyaSharir, applied research and should inculcate in him/her a research oriented scientific approach in both academics as well as clinical fields.
- 4) The Ph.D. scholar should be become an expert in the KriyaSharir subject and be an able teacher, philosopher, and guide to the caring generations.
- 5) This course will contribute to transdisciplinary research and development by employing innovation and creative ways as well as student can independently conduct research, clinical trials and also academic and development activities to tackle practical challenges.

### **Rachana Sharir-**

1. Inculcate the research acumen in the undergraduate students while teaching the RachanaSharir
2. Identify the research areas wherein the new projects can be written, submitted for the fund raising to the appropriate agencies.



3. Bring the own research topic into the social domain for the benefit of the society.

### **Rasashastra Bhaishajya Kalpana-**

The program is designed to empower the Ph. D. students to develop substantive knowledge in their area of specialization in Ayurvedic Pharmaceutics. To become master in the pharmaceutical and analytical skills in the drug research. To develop academic ability in the designing of syllabus and to teach college level courses in Rasashastra & B.K.

### **Rognidan- Vikruti Vidnyan-**

Our aim is to mould a PG degree holder to be a authority in RognidanavumVikrutivigyan and make him an expert in the subject and an expert Ph.D. guide to his students with the "Heart of modern medicine but a Brain of Ayurveda"

-It is our endeavour that our Ph.D. scholar should master the intricacies of our subject along with the concepts of modern medicine.

-The Ph.D. scholars shall learn the required applied knowledge about the importance and significance of all the investigations and diagnostic procedures so as to inculcate in them the ideal clinical methods to examine the patient and to enable them to communicate with the patient in a lucid manner so as to understand both the patient as well as his disease.

-The Ph.D. scholars should be an authority in the field of applied research and should inculcate in him/her a research oriented scientific approach in both academics as well as clinical fields.

-The Ph.D. scholar should be become an expert in the subject and be an able teacher, philosopher, and guide to the caring generations.

-Lastly but not the least to teach Ph.D. scholars not only the science but also the art of practicing as a humane professional a learned Ph.D. holder, an able clinician and a successful physician is the one who has a Ph.D. degree in RognidanavumVikrutivigyan.

### **Swastha Vritta-**

#### **PSOs 1 Cognitive Skill :**

Students of **Ph.D.** Swasthavritta course will have Planning and problem solving abilities in the field of preventive Health Care.

#### **PSOs 2 Higher Cognitive Skill:**

Students of **Ph.D.**Swasthavritta will have an ability to plan, execute, manage, maintain and rehabilitate concept of Prevention to maintain Health status of individual and community as a whole.

#### **PSOs 3 Psychomotor Skill:**

Students of **Ph.D.**Swasthavritta will have capability of Professionalism and acquired the advanced skills of teaching.

#### **PSOs 4 Affective Skill:**



At the end of the course students of **Ph.D.** Swasthavritta will have the ability to Incorporate their skills for Environment and Sustainability with lifelong learner aptitude

### **Kayachikitsa-**

Students will be equipped with a deep understanding of Ayurvedic concepts related to diagnosis, treatment, and management of diseases.

Students can develop research skills and methodologies, enabling them to undertake original research projects, contribute novel insights to the field, and advance the evidence base for Ayurvedic interventions in internal medicine.

### **Panchakarma-**

- The PhD student of Panchakarma will be able to interact with patients about different procedures of Panchakarma
- They will be able to diagnose, analyze and prescribe Panchakarma procedures to the patients in different systemic diseases considering the different stages of disease through research point of view.
- They will be able to perform different Panchakarma procedures and will practice the Panchakarma as a special branch in different global health problems and serve the society through advance research.

### **Shalya Tantra-**

- Transform the PG students into an authorities in Shalyatantra
- Ph. D. student will acquire the finer details of Shalyatantra which will help in management of difficult surgical disease
- They should be able to devise innovative methods and techniques to treat
- They will be able to impart in depth knowledge of Shalyatantra and modern surgical practice to future students
- They will acquire the research mindset while working in the institute

### **Shalakyatantra-**

Comprehensive Understanding- Students should demonstrate a comprehensive understanding of the theoretical foundations, principles, and concepts of Shalakyatantra, including its historical development, classical texts, and contemporary advancements.

-Critical Analysis and Evaluation- Students should be able to critically analyze classical Ayurvedic texts, research articles, and case studies related to Shalakyatantra, and evaluate their relevance and applicability in contemporary clinical practice.

-Research Skills- Students should acquire advanced research skills, including the ability to design and conduct independent research projects in Shalakyatantra, apply appropriate research methodologies, analyze data, and interpret results.

- Clinical Competence- Students should demonstrate proficiency in diagnosing, treating, and managing diseases of the eye, ear, nose, and throat using Ayurvedic principles and therapies, integrating traditional knowledge with modern diagnostic tools and techniques.

-Ethical Practice- Students should adhere to ethical principles and professional standards in the practice of Shalakyatantra, including respect for patient autonomy, confidentiality, and cultural sensitivity.



-Interdisciplinary Collaboration- Students should be able to collaborate effectively with professionals from other disciplines, such as modern medicine, ophthalmology, otolaryngology, and allied health sciences, to provide holistic healthcare solutions.

-Communication and Teaching Skills- Students should possess effective communication skills to interact with patients, colleagues, and the community, as well as teaching skills to impart knowledge and train future professionals in Shalakyatantra.

-Continuous Learning and Professional Development- Students should demonstrate a commitment to lifelong learning and professional development, staying updated with the latest research, advancements, and best practices in Shalakyatantra and related fields.



*Prashant*

**PRINCIPAL**

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