

# Enhancing Quality & Excellence in Select Autonomous Colleges (RUSA)



Seva Mandal Education Society's

## **DR. BHANUBEN MAHENDRA NANAVATI COLLEGE OF HOME SCIENCE (Autonomous)**

NAAC Re-Accredited 'A+' grade with CGPA 3.69/4

UGC Status: College with Potential for Excellence

Best College Award 2016-17 adjudged by SNTD Women's University



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# **Dr. BhanubenMahendraNanavati College of Home Science**

## **Vision**

Empowerment of Women through Quality in Education

## **Mission**

To impart quality education to women and enable them to become independent and competent, thereby benefiting our society and country at large

## **Objectives**

- To Foster a Healthy Learning Environment
- To Make Teaching and Research Relevant to Social Needs
- To inculcate a Humanist Outlook in Students by Means of Value Based Education and Community Outreach Programs
- To Focus on Vocationalization of Courses

# PROGRAMMES OFFERED by Dr. BMN College of Home Science

## DEGREE PROGRAMMES (UG Level)

### B.Sc.: (Aided)

#### Specializations:

- ✦ Human Development (HD)
- ✦ Resource Management (RM)
- ✦ Food Science and Nutrition (FSN)
- ✦ Textile Science & Apparel Design (TSAD)

#### Self-Financing : (Unaided)

- ✦ B.Sc. in Nutrition and Dietetics (ND)
- ✦ Bachelor of Computer Applications (B.C.A.)

## DEGREE PROGRAMMES

### Self-Financing: (Unaided)

- ✦ M.Sc. in Clinical Nutrition and Dietetics

### Indira Gandhi National Open

#### University - Study Centres

- ✦ Masters in Computer Applications – M.C.A.(Centre No. 49033P)
- ✦ M.Sc. in Dietetics and Food Service Management (Centre No. 49045P)

## CERTIFICATE/ DIPLOMA / ADVANCED DIPLOMA PROGRAMMES (UG Level)

- ✦ Diploma in Beauty Culture and Hair Dressing (Recognized by Maharashtra State Board of Technical Education)
- ✦ Landscape Designing

### Career Oriented Programmes (Recognized by the UGC)

- ✦ Physical Fitness and Weight Management
- ✦ Event Management
- ✦ Beauty Culture & Hair Dressing

### Value Added Certificate Courses:

- ✦ Personality Development Program
- ✦ Life Skills program based on Gandhian Values
- ✦ Soft Skills Development program
- ✦ Basic Computers
- ✦ Computer Aided Design (CAD)
- ✦ Foreign Languages (German)
- ✦ Fancy Cookery
- ✦ Cook N Dine
- ✦ Catering Management

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## DEGREE PROGRAMMES (PG Level)

- ✦ Post Graduate Diploma in Sports Science Fitness and Nutrition
- ✦ Post Graduate Diploma in Early Childhood Education

## **COLLABORATIVE VENTURES WITH UNIVERSITIES, INDUSTRIES AND NGOS FOR LAST 30 YEARS**

- Intergenerational Interaction between Youth & Senior Citizens - A Project with NGO Thread (Trust for Human Research Enrichment & Development) & HD, TSAD, RM & BCA Department.
- CSR project with SAS institute (India) Pvt. Ltd for enhancing SMART technology (under SevaMandal Education Society)
- Seminar on Pre-marital Counselling in Collaboration with Rotary Club of Bombay Uptown & Dept. of Human Development
- Krushjan - An Entrepreneurial program with NeotricInformatique Ltd. & Dept. of R.M.
- Projects in food development with Marico Industries in collaboration with the Department of M.Sc. in Clinical Nutrition and Dietetics. .
- Projects in food development with Pepsico Ltd. in collaboration with the Department of M.Sc. in Clinical Nutrition and Dietetics.
- Projects in collaboration with the Rural Development Centre at Talasari (under All India Women's Conference), conducted with Human Development Department.
- Ongoing social outreach projects with the Rotary Club of Bombay Uptown, and Lion's Club of Sion, in collaboration with the NSS Unit
- Inter-Collegiate competitions for students to showcase their research work with Association of Food Scientists and Technologists (AFST(I)) in collaboration with Department of Food Science and Nutrition
- Project with Rossari Bio-Tech in collaboration with Department of Textile Science & Apparel Design
- Project on Garment Designing for 'Grasims' in collaboration with Department of Textile Science & Apparel Design
- Youth fellowship Programme of P.U.K.A.R (Partners for Urban Knowledge Action and Research), in collaboration with English Department
- Balwadi teachers training programme in collaboration with StreeMuktiSanghatana, Mumbai & Department of Human Development
- Collaborative ventures to promote gender sensitization by Aadipath Foundation and Research Centre
- Health Project ("Haath Mein Sehat") with University of California (Berkley) USA, in collaboration with N.S.S Unit
- Online Cultural Studies Programme with the Universities of Magdeburg & Potsdam (Germany) in collaboration with English Department
- Income Generating Project with Welspun factory at Vapi in collaboration with Department of Human Development
- Collaborative industrial project of Textile Science and Apparel Design with VISSCO Rehabilitation Aids Private Ltd for testing medical textile products

## SWOT Analysis

### Strengths

- (i) Active support in all aspects (financial, academic, motivational etc.) from the Management of Seva Mandal Education Society which is our governing body
- (ii) Conducive academic environment and ambience for study
- (iii) Cordial work culture that promotes transparency and accountability
- (iv) Strong leadership and teamwork
- (v) Locational Advantage in central suburb of Mumbai
- (vi) Highly qualified academic staff
- (vii) Enterprising faculty members ready to take initiative and introduce new programs
- (viii) Cooperative administrative staff who handle efficiently the administrative and financial matters
- (ix) Well-equipped Library with e- learning resources/subscription to UGC Inflibnet and other data bases
- (x) Industry-academic Interaction with experts from the field
- (xi) Well - equipped laboratories ‘
- (xii) Well - equipped computer labs with the latest in software and hardware

### Weaknesses:

- (i) The college is located in urban area of Mumbai and therefore due to constraints of space, horizontal growth is next to impossible
- (ii) Limited Sports Infrastructure – due to space constraints
- (iii) No hostel facilities which makes it difficult to attract out of state/ international students
- (iv) MIS yet to be initiated due to high cost involved
- (v) Administrative staff to be trained in latest in computer software and in office automation

### Opportunities:

- (i) Specializations under Home Science faculty have scope to develop entrepreneurship skills
- (ii) Located in metropolitan city of Mumbai, there is ample opportunity to invite resource persons from the Industry and related organisations and make use of their expertise
- (iii) Introduction of skill oriented educational programs such as under the community college scheme
- (iv) Home Science offers several opportunities for community outreach programs

### Threats:

- (i) Mushrooming of institutions offering diploma courses in subjects such as Textile Science/Nutrition etc.
- (ii) Dropout rate of women students
- (iii) Social perception about 'Home Science' nomenclature which dissuades brighter student from opting for the courses offered
- (iv) Social bias about women's college and therefore not at par with co-educational institutions

## **Executive Summary of IDP**

Women comprise half of our nation's population and therefore it is imperative to provide women students with qualitative facilities and opportunities for higher education if our nation is to progress. The recent years, there has been an increasing trend of women students opting for vocation oriented courses with a view to employment. Dr. B.M.N College therefore considers it as a top priority to focus on the employability skills of its students. Our focus under autonomy is therefore skill based capacity building initiatives. In order to ensure outreach of innovative courses and modules that we propose to introduce under autonomy, the college will focus on developing e-content and MOOC courses and disseminating the same to students on campus as well as for our alumina and women from the community who have discontinued college education due to reasons such as marriage and motherhood. Equal focus will be placed on developing entrepreneurial skills.

The faculty of Home Science offers several opportunities for direct interaction with the experts from the industry. The college has signed MOUs for the purpose of food product development and other research related projects. Students are sent for internship to Food product companies, Hospitals, Five star hotels and export unit and Merchandising firms. This allows for a close association between the college and the industry. The college has introduced the best practice of inviting members of the industry to evaluate internship projects, and also to address students during the orientation to the respective specializations. In order to enhance such interaction, seminars, workshops will be organized in collaboration with experts from related fields.

We intend to adopt our two niche area of focus for skill based training, and encourage student led projects on topics such as sports science and nutrition, and community nutrition counseling; aging and intergenerational interaction; computer aided design in textiles science, and developing skills in Indian traditional textiles with the help of new technology. The quality of programs that the college offers is dependent on its infrastructure and related facilities, and under the Institutional Development Plan (IDP), the college proposes to enhance and develop further its infrastructural facilities. The academic growth of teachers is integral to the quality of teaching and research. For the purpose, faculty should be given all facilities for research including exclusive space within the campus. We propose individual workstations within our spacious staff room. For the efficient functioning of the institution it is essential to improve the academic and administrative system by introducing Management Information System which will cover multiple areas such as admissions, examinations, finance, student progress etc.



## **LONG TERM OBJECTIVES**

- To make Dr. BMN College of Home Science a lead institution for professional courses for women students, by focusing on skill based/ capacity building initiatives
- To develop a culture of institutional social responsibility wherein women students will contribute from classroom to community

## **OUTCOME**

- Smart Technology enabled classrooms leading to enhanced teaching-learning processes
- MIS system leading to reforms in conduct of exams and evaluation processes
- Employability & Entrepreneurship Career Hub to promote entrepreneurial ventures
- Faculty led research projects
- Student led research projects
- Research monographs published by the institution
- Introduction of e-learning/online MOOC courses for women students on and off campus
- Skill based training in niche areas of Nutrition/Textiles/Human Development/Hospitality Management and Computer Applications which will enable students to acquire employment in a highly competitive job market .
- Training in transferable skills in areas such as data analysis, organization, problem solving and project management
- Training in independent critical thinking skills along with oral and written communication skills
- Sensitization programs on awareness of Gender equity and how to work towards the same
- Secure Campus for women faculty and students
- Increased self-esteem and confidence levels among women students

# TIME FRAME

## **YEAR ONE**

- ✓ Setting up infrastructure and procuring equipment
- ✓ Identifying human resources and expertise
- ✓ Inviting subject experts and mentors
- ✓ Enrolling students into skill based courses
- ✓ Setting up Employability & Entrepreneurship Career Hub.
- ✓ Selection of student and faculty for research projects through college ethical committee
- ✓ Developing content for online courses

## **YEAR TWO**

- ✓ Sustaining and enhancing the programs .
- ✓ Exploring linkages and MOUs to sustain the programs
- ✓ Hosting online courses for student participation
- ✓ Introducing next level of skill based training
- ✓ Organising a Student led national level conference

# FUNDING PRIORITIES

## Hard Component

Sr. No	Details	Funds sought from RUSA
1	Laboratories and equipment required for research work in area such as Food Science and Nutrition, Textile Science, Hospitality Management etc.	Rs. 10Lakhs
2	Library- including 1) creation of an exclusive student workstation with individual carrels and creation of a reference corner  2) Books & Journals	Rs. 7Lakhs  Rs . 3 Lakhs
4	Common room for women students Refurbishing and provision of facilities for activities and ergonomically friendly seating arrangements in the students' common room, as well as storage/locker facilities.	Rs. 5 Lakhs
5	Computers with latest Software to enable learning in the specializations of Food Science and Nutrition, Textile Science, Hospitality Management and Human Development (30 computers x 50,000)	Rs. 20 Lakhs
6	Staff Room Refurbishing of staff room so as to provide individual workstations for staff members.	Rs. 5 Lakhs
7	Audio-Visual Lab for Creating MOOC courses and other audio visual learning resources including fittings and requirements for sound proofing	Rs. 15 Lakhs
8	MIS (To bring in reforms in administration and examination by working on a comprehensive MIS system which will include academic records, accounts, attendance examination, biometric inputs, automated integration with College website so as to allow for faster access to data like attendance records, examination results, payment of fees, communication portal, alumina data base etc.) <b>(Hardware and Software)</b>	Rs. 70 Lakhs
	<b>Total</b>	<b>Rs. 1.35 Cr</b>

## Soft Component

Sr. No	Details	Funds sought from RUSA
1	Minor research projects for Faculty (4x15)	Rs. 60 Lakhs
2	Major research projects for Faculty led/Industry led Interdisciplinary projects	Rs. 60 Lakhs
3	Community Outreach Interventions	Rs. 15 Lakhs
4	Training of faculty and creation of online courses	Rs. 15 Lakhs
5	International Interdisciplinary Conference on Gender related theme National Level Symposium	Rs. 30 Lakhs Rs 20 Lakhs
6	Student Exchange	Rs. 5 Lakhs
7	Field visits and Exposure visits	Rs. 10 Lakhs
8	Capacity building workshops for faculty (Research methodology, ICT Skill, Innovative Curriculum Development, Audit Mechanism)	Rs. 25 Lakhs
9	Capacity building workshops for Students (Gender equity, Disaster management, Life Skills, Capacity Management etc.)	Rs. 35 Lakhs
10	Mentoring other Institutions	Rs.5 Lakhs
11	Introduction of New Courses under Autonomy	Rs. 35 Lakhs
	<b>Total</b>	<b>Rs. 3.15 Cr</b>

# EMPLOYABILITY & ENTREPRENEURSHIP CAREER HUB

## Hard Component

Sr. No	Details	Funds sought from RUSA
1	Computers and Printer	Rs. 2 Lakhs
2	Creation of office space with furniture and fixture	Rs. 10 Lakhs
3	e-server for exclusive learning portal	Rs. 3 Lakhs
	<b>Total</b>	<b>Rs. 15 Lakhs</b>

## Soft Component

Sr. No	Details	Funds sought from RUSA
1	Entrepreneurship Skill Development (Training session / workshops and seed money)	Rs. 15 Lakhs
2	Soft Skills (Workshops and Learning resources)	Rs. 10Lakhs
3	Skill Based Value Added Courses	Rs. 10Lakhs
	<b>Total</b>	<b>Rs. 35 Lakhs</b>

# Implementation Timeline

## Hard Component

Sr. No	Details	June 2019- August 2019	September 2019- November 2019	December 2019- March 2020
1	<b>Laboratories-</b> Creation of New facilities for research work in area such as Food Science and Nutrition, Textile Science, Hospitality Management	Food Science and Nutrition Lab	Textile Science Lab	Hospitality Management Lab
2	<b>Library</b> - including creation of an exclusive student workstation with individual carrels and creation of a reference corner	Student Workstation		reference corner
4	<b>Common room for women students-</b> seating arrangements in the students' common room, as well as storage/locker facilities.	seating arrangements	storage/locker facilities	
5	Computers with latest Software to enable learning in the specializations of Food Science and Nutrition, Textile Science, Hospitality Management, Human Development and Computer Applications	Phase 1- Purchase	Phase 2- Purchase	Phase 3- Purchase
6	MIS (To bring in reforms in administration and examination by working on a comprehensive MIS system)	biometric inputs	attendance examination	academic records, accounts,
7	<b>Staff Room-</b> Refurbishing of staff room so as to provide individual workstations for staff members.		Refurbishing of staff room	individual workstations
8	<b>Audio-Visual Lab-</b> for Creating MOOC courses and other audio visual learning resources including fittings and requirements for sound proofing		fittings and requirements for sound proofing	Creating MOOC courses and other audio visual learning resources

## Soft Component

Sr. No	Details	June 2019- August 2019	September 2019- November 2019	December 2019- March 2020
1	Minor and Major research projects for Faculty led/ Industry led Interdisciplinary projects	Sanction of 1 <sup>st</sup> installment	Sanction of 2 <sup>nd</sup> installment	Sanction of 3 <sup>rd</sup> installment and submission of report
2	Training for Community Outreach and Initiatives (nutrition counseling)	Workshops and training sessions		Community based activities
3	e-content and MOOC Courses (Training of faculty and creation of online courses)	Training of faculty	creation of online courses	Online hosting
4	a. International interdisciplinary conference			Hosting Conference
	b. National Symposium		Hosting Symposium	
5	Student exchange		Exchange programmes	Exchange programmes
6	Field visits & Exposure visits	Phase 1	Phase 2	Phase 3
7	Capacity building workshops for faculty	2 workshops	2 workshops	2 workshops
8	Capacity building workshops for Students	5 workshops	5 workshops	5 workshops
9	Mentoring other institutions	Networking	Training Programs	Training Programs
10	Introduction of New Courses under Autonomy	Coordination & Honorarium with Experts	Implementation of Courses	Implementation of Courses

# EMPLOYABILITY & ENTREPRENEURSHIP CAREER HUB

## Hard Component

Sr. No	Details	June 2019- August 2019	September 2019- November 2019	December 2019- March 2020
1	Computers and Printer	Purchase of Computers and Printer		
2	Creation of office space with furniture and fixture	Creation of office space		
3	e-server for exclusive learning portal		learning portal	

## Soft Component

Sr. No	Details	June 2019- August 2019	September 2019- November 2019	December 2019- March 2020
1	Entrepreneurship Skill Development (Training session / workshops and seed money)	Identification of students/ ideas to be incubated through orientation process	Training sessions and Workshops	One to one mentoring by experts
2	Soft Skills (Workshops and Learning resources)	6 workshops	6 workshops	6 workshops
3	Skill Based Value Added Courses	6 workshops per skill based value added course	6 workshops per skill based value added course	6 workshops per skill based value added course



**Proposed three year strategic Plan (2019-2022)**

Sr. No	Outcome
1	<p><b>Academic plan for pursuit of excellence</b></p> <p>The college will focus on promoting a research culture among undergraduate students wherein students are encouraged to access high quality e- resources. The availability of e-resources will also promote research initiatives among faculty and students. This will result in increased qualitative research publications by faculty and students</p>
2	<p><b>Plan to develop research laboratories</b></p> <p>The college proposes to initiate a Microbiology and Food analysis lab which will cater to food entrepreneurs and the food industry. Students will conduct food shelf life studies and also work on nutrition labeling, quality analysis etc. The institution will explore collaborative projects with the industry and will also expand upon existing collaborative ventures in food product development with Marico India Ltd, Pepsi Co and Chinni-cum</p>
3	<p><b>Networking plan for collaborations and partnerships</b></p> <p>It is very important that students gain an understanding of the industry and job requirements of their respective specializations. Therefore at least one annual industrial visit will be organized per specialization so that students gain exposure to the latest developments in their respective specializations as well as quality standards</p>
4	<p><b>Initiatives To Scale Up Industry-Academia Partnership</b></p> <p>The college wishes to introduce innovative initiatives to promote industry academia partnership. Funding will be required to support collaborative workshops and group projects.</p>
5	<p><b>Promotion Of Entrepreneurial Skills</b></p> <p>The college will introduce training programs in entrepreneurship specially designed for young women graduates as well as establish a startup cell to provide assistance to outgoing students as well as alumnae. The college is exploring a tie up with the industry to establish this cell.</p>
6	<p><b>Outreach And Public Engagement Facility</b></p> <p>The institution will initiate a public health cell which will focus on extending nutrition counseling to the local community. Students will be trained in community awareness programs and in skills such as conducting surveys, analysis of data and dissemination of information on community nutrition with specific focus on women and children.</p> <p>The department will conceptualize, design and commercially execute various nutritional aids and models for nutrition related teaching and extension Services. These aids and models will be used for promotion of Public Health projects and to</p>

	train students in community outreach programs. There will be a teaching component in that students will be trained in how to conceptualize and design the aids
<b>7</b>	<p><b>Improving employability of graduates</b></p> <ul style="list-style-type: none"> <li>• Devising curriculum for soft skills and personality development modules according to needs of the industry</li> <li>• Enhancing institute – industry interaction by conducting workshops, technical sessions by experts, and conducting industry and field visits</li> <li>• Organizing sessions to prepare students for competitive exams</li> <li>• Introducing unique certificate program in entrepreneurial development</li> <li>• Setting up of a laboratory for training students in aspects of hospitality for students of B.Sc. in Hospitality Management</li> <li>• Improving infrastructure and introducing the latest equipment/ instruments in order to train students in the technical skills required by the industry</li> <li>• Enhance competencies in working with computers including software such as MS office, Excel, power point, as well as subject related software. Training of use of technology for making presentations and projects</li> <li>• Remedial teaching to improve communication skills in English</li> </ul>
<b>8</b>	<p><b>Increased Learning Outcome of Students</b></p> <ul style="list-style-type: none"> <li>• Improve teaching learning outcomes by focusing on a student centric approach for learning with the support of well-equipped laboratories and qualified faculty.</li> <li>• Enhance existing courses by introducing workshops and training in skills required in the market place today</li> <li>• Facilitating learning outcomes by introducing latest technology</li> <li>• Introducing remedial teaching in order to give additional assistance given to weak students in terms of remedial teaching</li> <li>• Focus on increasing the performance of individual students by introducing contemporary teaching learning and evaluation strategies</li> <li>• Enhance equipment/ instruments which will provide students with practical knowledge and skills leading to better learning outcomes.</li> <li>• Introducing value added courses so that focus will be on practical knowledge which will lead to better learning outcomes.</li> <li>• Introducing mechanism for feedback on teaching-evaluation methods so as to assist in faculty development programs</li> <li>• Conducting faculty development programs in ICT and pedagogy in respective subjects</li> </ul>