



**SURESH GYAN VIHAR UNIVERSITY, ACCREDITED BY NAAC WITH “A” GRADE**

## **1.UNIVERSITY INTRODUCTION**

Suresh Gyan Vihar University is located at Mahal, Jagatpura, Jaipur. It has been integrated by Government of Rajasthan vide Suresh Gyan Vihar University, Jaipur Act 2008 (Act no. 16 of 2008) and was established through an Extraordinary Gazette Notification on 21 April 2008.

The University has been authorized to conduct multifaceted courses at UG, PG and Doctorate level in the disciplines characterized in schedule II of the Act. Suresh Gyan Vihar University, subsequently ranked among the top Universities of the country, houses comprising of eight schools of education viz; Engineering, Management, Pharmacy, Hotel Management, Agriculture & Research, Applied & Biosciences, Education and Interdisciplinary & Liberal Studies.

Each School in particular offers Programs varying from Suresh Gyan Vihar University, ranked among the pool of top Universities of the country, houses eight schools of education viz; Engineering, Management, Pharmacy, Hotel Management, Agriculture & Research, Applied & Biosciences, Education and Interdisciplinary & Liberal Studies. Each exclusive School offers a variety of Programs varying from Undergraduate to Postgraduate & Doctoral level. Every respective program has been designed and contrived keeping in mind the industry demand and future challenges. The impact and influence of the quality education is quite visible on the alumni and industry. The perception of leadership in this contemporary era of Globalization envisages that the eyes of the leader should be focused on the target to be achieved with perfection and that too on time. Leadership signify and integrates the capacity and capability of ensuring the trust and co-operation of the entire integration of work force. A cohesive and united approach and assisted efforts helps to attain this goal provided the leader has the wherewithal to motivate his work force to perform. SGVU shapes the personality of its students to become dynamic and time-oriented, prepared to fight the ever growing competition in this advancing technological world. Spread across 108 acres and three campuses, Gyan Vihar University has been the pioneer of education in Rajasthan since 1936.

### **Jagatpura Campus**

A world class infrastructure that hosts and consist the largest world class library in the state and the only agriculture research centre with poly-house, hydroponics farm and fisheries in the country. Established a conventional Google's Learning centre of excellence, Bosch's automation solutions research laboratory and Amazon's centre of cloud computing takes it leagues way ahead of every other research focused institution in India.

### **North Campus**

The proposed and well planned campus is to house Gyan Vihar Hospital and Medical College. Combining Gyan Vihar's research ambitions and the industrial tie-ups, the college would focus on finding solutions to completely eradicated India's healthcare problems.

## Sambhar Research Campus

Established on the banks of the prevalent inland Salt Lake in the country, the research centre is unique in its focus on Climate Change study and renewable energy solutions.

## 2. NAAC ACCREDITATION

Gyan Vihar's ambitions were given a big exhalation when we became the only state private university in Rajasthan to be awarded NAAC 'A' grade status. Through the years Gyan Vihar has focused all its resources towards developing world class infrastructure for research activities and incubating original ideas. Integrity, diligence and true ambitions do take time to be recognized, but always differentiate leaders from the herd. Established in 1994, National Assessment and Accreditation Council (NAAC), UGC was established by Government of India as a new standard of quality mark in Higher Education Institutions in India. It has accredited Suresh Gyan Vihar University with "A" Grade and CGPA of 3.10 on a four-point scale in its first cycle of assessment, which was based on University's performance against seven different criteria to assess quality of education. It has come in as recognition of nine years of hard work and commitment of SGVU to set the highest standards in knowledge dissemination and creation. It is the only private university having NAAC 'A' Grade in the state of Rajasthan, India.



### **Ranked 34<sup>th</sup> amongst 700 Universities across the country.**

The Spanish National Research Council (Spanish: Consejo Superior de Investigaciones Cient, CSIC) declared International Transparent Ranking – 2017 Universities based on Google Scholar Citation, SGVU stands at 59<sup>th</sup> Rank in India and 1545<sup>th</sup> rank at international level. It is pertinent to mention that more than a Lac institutions have been considered globally. Again in the year 2018, as per CSIC rank, the university improved its rank and stood 34<sup>th</sup> at national level and 1159<sup>th</sup> at international level, the improvement in rank was due to the high quality of research by the faculty members. This ranking puts us ahead of various IITs/IITs/IISERs and other research driven institutions in India.



The graphic features a gold medal on the left with the text "Ranked 34<sup>th</sup>" and five stars. Below the medal, it says "Got Rank 34<sup>th</sup> in India in Transparent Ranking conducted by CSIC, a Public Research Body of Spain". On the right, a white box titled "RANKING WEB OF UNIVERSITIES" contains a list of universities. The university "Suresh Gyan Vihar University" is highlighted at rank 1159.

RANKING WEB OF UNIVERSITIES	
1153.	University of Hyderabad
1154.	Sejong University / 세종대학교
1155.	University of Nebraska Omaha
1156.	Universidad Nacional de San Martín Argentina
1157.	Quaid-I-Azam University Islamabad
1158.	Universidade Estadual de Londrina
1159.	Suresh Gyan Vihar University
1160.	Adelphi University
1161.	Trent University
1162.	Nihon University / 日本大学
1163.	Anna University

### **UGC Status**

University Grant Commission has released the approval for the establishment of the University and empowered to award degrees as specified by the UGC U/S 22 of UGC Act 1956 through its notification no. F.9-38/2008(CPP-I) dated 1 April 2009. Under the guidelines for private University regulation program 2003, UGC in its 467<sup>th</sup> meeting approved the report of UGC expert committee in respect of the University. (F.No. 9-38/2008 (CPP-I/PU) dated 17<sup>th</sup> February 2010).

**UGC-DEB**

Suresh Gyan Vihar University's distance learning program is duly recognized by Distance Education Bureau (A Bureau of University Grants Commission).

**AICTE STATUS**

Suresh Gyan Vihar University is running several degree programs approved by AICTE, regardless of the fact that for conducting technical courses/programs, approval of AICTE is not necessary. However, Universities have an obligation to conform to the standards and norms laid down by the AICTE.

**PCI STATUS**

The B. Pharmacy program at the University has been approved by Pharmacy Council of India (PCI).

**AIU MEMBER**

Suresh Gyan Vihar University is a member of the Association of Indian Universities, New Delhi.

**3.DYNAMIC CURRICULUM**

Suresh Gyan Vihar University has adopted the cutting edge curriculum which incorporates the global latest developments in the respective fields. Curriculum as per Credit Base Choice System has been adopted for all academic programs. A Personal Tutor is assigned to each student which helps them in identifying the subjects based on program requirement, course prerequisites, student's ability and interest in various academic disciplines. The Industrial Mentoring from industries to each student, Internship and Summer Placements, Project Oriented Lab Projects, Graded assignments, Professional Software Training etc. are some hallmarks of SGVUC curriculum. One of the primary objectives of Suresh Gyan Vihar University is to have a dynamic curriculum that caters to the needs of the industry, keeps pace with the ever-changing academic environment and to produce graduates who have the ability to think and work innovatively and creatively. It is our endeavor to design our curriculum in such a fashion that we live up to our promises and attain the goals that we have set for ourselves to make SGVU one of the foremost institutes of not just the country but that of the world. In recent years, SGVU has proved its worth and has emerged out to be the finest educational hub in the country offering state-of-the-art Infrastructure and World class education to a multi ethnic and multi cultural group of Indian and foreign students. At SGVU, education is designed to empower students to earn a profession, a career, and the edge, besides nurturing them into professionals having concern for the Society and respect for values and ethics. With this pledge, SGVU strives to make studying an enriching

experience for its students. SGVU is a confluence of competent faculty eager to deliver, innovative pedagogy, industry oriented curricula, world-class infrastructure and high-tech environment.

We are constantly evolving our pedagogy and curricula to meet the needs of the industry. The new academic system FCS is one such example. Our Strategic Objectives include: Learning with understanding. Establishing accountable excellence in all fields of academics and research. Retaining a distinguished faculty with high academic credentials and talent. Offering students world-class education and research opportunities at affordable cost that enhances their knowledge and skills. Developing the holistic personality of students to hone their employability skills. Forging academic and research alliances nationally and internationally. Ensuring a flexible and sustainable environment that fosters life-long learning for faculty, staff and students.

**Flexible Choice Based Credit System of Learning** One of the prized learning practices at SGVU will be its Flexible Choice based Credit System of Learning

(FCS). Unlike the traditional teaching centered system of learning, this gives students a number of distinctive advantages, such as Freedom to students to choose from a plethora of courses to suit their own competencies and liberty to progress in the program at their own pace. Credit system based on guided choice to the students. The Academic Counselor/ Personal Tutor helps the student in identifying the courses based on program requirement, course prerequisites, student's ability and interest in various academic disciplines. Meritorious students can have exposure to Research Experience, tutoring assignments, thus getting academic distinctions and financial assistance during their study. Earn while you learn. Nurturing & rewarding student's innovative capabilities through awarding suitable credits.

Innovation center and Community club amenities being used extensively by the students to pursue their interests besides academics.

**FDP:** Faculty Development Program, main motive is to develop the next generation of professors. As with the rapid progress of Indian Higher Education System, as we are progressing in terms of enrollments in more and more institutions the relations directly proportional to the quality of professors with the quality of students. Hence, also linked with our global generation of skilled man power.

Suresh Gyan Vihar University is one of the best among the country that has talented and skilled number of teachers and faculty members. The unprecedented growth of institution in India in the past few years has been possible because of their own hard work and dedication led to the updated and well trained faculty members and has created a quality challenge for education. Increasing internationalization in teaching is strongly supported by the Indian education sector and is considered vital for our institution in developing India's capacity in research and innovation, driving up India's institutional ranking and increasing the quality of teaching and learning.

Thus, enhancing the academic and intellectual surroundings in the institutions by providing faculty members with plenty of opportunities to pursue research and also to contribute in seminars / conferences / workshops has become vital for developing different



schools in University. Participation in such programs enables faculty members to update their research and pedagogical skills. Our institution has been well adapted and responded nicely to professionals already in employment, mature learners and the demand from students enrolled for skills for employability programs. With the aim of equipping faculty members with required skills and knowledge, Suresh Gyan Vihar University pursues the Faculty Development Program as its primary objective.

#### **4. SCHOOLS & COURSES**

##### **School of Engineering and Technology**



SGVU School of Engineering & Technology came into existence in the year 2000. The School has to it more than 150 faculty members and over 300 students pursuing multifarious programs at UG and PG level. There are a total of eight departments, namely, Computer Engineering & Information Technology, Mechanical, Electronics & Communication, Electrical, Civil, Applied & Bio-

Science, Diploma, Engineering & Computer Application. Three departments to the school are accredited by NBA, whilst, rest are in the process of gaining accreditation from international organizations. A total of 11 UG and 9PG programs are being run by the School of Engineering & Technology.

The primary emphasis of Suresh Gyan Vihar is on innovation, flexibility, relevance, and cost effectiveness in all its programs. The University started identifying the disciplines and subject areas for which the learning programs were to be initiated in the first instance.

The area of Engineering and Technology was identified in the early years, keeping in view the emerging need of continuing education and re-training requirements of those at work.

Thus, the School of Engineering and Technology came into existence in 2008, with a clear mandate to address the issues pertaining to continuing and extension education requirements in the country.

The objectives of the School are:

- To devise and conduct degree programs at the tertiary level.
- To offer opportunities of learning to employed persons.

To conduct extension education programs in engineering and technology areas for disadvantaged and economically weaker sections.

The ambiance at School of Engineering and Technology is inspiring and conducive for acquisition of knowledge and honing of skills. An unfettered spirit of knowledge and exploration, academic integrity and accountability, and promotion of intellectual excellence makes us distinct from other engineering institutes.

- The school welcomes everyone with the ability and ambition to succeed.
- Preparing students for their future careers.
- Our focus is developing students for their chosen field and we have a rich tradition of delivering programs in subject areas such as science, engineering, technologies, mathematics.

After completing this program, graduates of the program are able to:

Apply the basic knowledge of mathematics, science and technology. Identify, formulate and solve engineering problems.



## International School of Business Management



We shape the ISBM community with individuals who possess intellectual and interpersonal strengths. We also provide countless opportunities to further develop these skills. You'll experience this in our unique admissions process and our impressive array of student activities. We integrate experiential learning throughout our program. Students benefit from our approach; recruiters applaud it. Our aim is not only to prepare students for the next job, but to develop enduring real-world leaders. Academic excellence is always a top priority at ISBM. Our faculty is recognized as leaders in their field and their research and ideas shape the world of business. AT ISBM you will get more personalized attention: to help you gain career-specific knowledge, access a network that's right for you, and land your dream career.

- The School of Management Studies, began its academic operations in 2008 with the launch of Management programs of the University, today offers different programs in Management and Commerce.
- Our Management Programs is one of the leading Management Programs in the country and imparts quality flexible education at the doorstep of the learners. It also offers MBA programs to various African countries, as part of Pan-African e-network project.
- The School follows a multimedia approach in programs delivery. It comprises self-instructional printed course material packages sent to the student directly by post, supporting audio-video programs, face to face interaction with academic counselors at study centres, assignment for assessment and feedback, telecast of video programs on Doordarshan, broadcast of audio programs on all India Radio and live teleconferencing along with other learner friendly features.
- It has been the endeavor of the school to develop new courses and programs to address the developments taking place in the Business World and society at large. The programs offered by the School are designed in modular format offering maximum flexibility to the learners including multiple exit points. In recent years the school has collaborated with various apex institutions to develop programs catering to the needs of specific target groups. School has plans to develop programs in various emerging areas to address the country's need of trained and qualified workforce.
- The School of Management Studies has been established to provide developmental avenue for working personnel and professionals for acquiring management qualifications to upgrade and refine their managerial skills, capabilities, and orientation. The School aims to impart lifelong learning opportunities to the learners in the specific domains like leadership, entrepreneurial skills, and professional competence. The Programs offered by the School are useful and geared to fulfill identified gaps in the corporate and business world.

## School of Hotel Management



History and mythology have always landed the Indian culture for its great tradition of hospitality. Entertaining the guest to his or her satisfaction has been a custom of the soil. An Indian host is completely contented only when his guests are satisfied with the hospitality provided. A glance into our past reveals that providing hospitable comforts to guest have been a way of life, and different conventions of hospitality were prevalent in different periods. Tourism is one of the fastest growing industries in the world. And this has led to an exponential growth in the Hospitality sector.

- Indian hospitality sector contributes 8-9 percent of the country's GDP. The sector encompasses travel and tourism and major segments that fall under this category include accommodation and catering (hostels, restaurants), transportation (cruise railway, rentals airline companies), travel agencies and tour operators.
- According to estimates provided by World Travel & Tourism Council (WTTC), contribution of travel and tourism to nation's GDP will grow consistently in the next decade though this growth opportunity will be closely linked to the growth of India's hotel and restaurant business.

- School of Hotel and Management is one of the premier school in the country offering education, training, research and consultancy in sustainable management of tourism, travel and other allied sectors.
- The stakeholders' realization that the country is in need of such professionals who can provide an excellent standard of products and services. It is devoted to the pursuit of higher knowledge in tourism and its dissemination to a diverse audience.
- Over the years, Institute has established its focus in meeting the changing needs of the tourism industry, it has played a pioneering role in the propagation and professionalization of tourism education.
- A cardinal part of hospitality industry, hotel management has wide employment opportunities. Moreover, with globalization gaining acceptance with more and more countries, the hotel management industry is truly becoming global. As hotel chain owners are opening new hotels in various big and small cities, requirement for trained hotel management professionals is huge. Although considered one of the most challenging situations.
- Hotel management can include Hotel & Restaurant management, Cruise Ship Hotel management, Hospital Administration and Catering, Hotel and Tourism Association, Airline Catering and Cabin Services, Club management, Forest Lodges, Guest Houses amongst others. Expansion of global travel industry and aviation industry is expected to boost hotel industry in next couple of years.

### **School of Agriculture Science & Research**



For decades, agriculture has been associated with the production of essential food crops. At present, agriculture above and beyond farming includes forestry, dairy, fruit cultivation, poultry, mushroom, etc. Today, processing, marketing and distribution of crops and livestock products, etc. are all acknowledged as part of agriculture. Agriculture plays a critical role in the entire life of a given economy and is the backbone of economic system of a given country. In addition to providing food and raw material, agriculture also provides employment opportunities to a gargantuan percentage of population. Approximately 70% of the entire world's population relies on agriculture as a mode of living.

SGVU School of Agriculture Science & Research offers multifarious programs in Agriculture at Undergraduate, Postgraduate and Doctoral levels. These programs envelop various dimensions of agricultural science like Agronomy, Plant Breeding and Genetics, Plant Pathology, Soil Science, Horticulture, Forestry, Agriculture Engineering, Entomology, Microbiology, Animal Husbandry, etc.

The School of Agriculture of Suresh Gyan Vihar University established in 2016 at Suresh Gyan Vihar, strives for a flagship role in turning the rural unemployed youth to first rate agricultural entrepreneurs and agri-business managers of tomorrow.

The impact of agricultural education through distance mode will soon be discernible in development of new breeds of entrepreneurs, increased employment opportunities, higher earnings and better work environment.

This will help ensure poverty alleviation and livelihood security and sustainable productivity to change the quality of life, especially rural areas. School of Agriculture has been focusing on academic and extension activities in agriculture at the national and international level with the following mission, vision and objectives:



## School of Applied Sciences



The School of Applied Sciences SGVU is a leading institution of higher learning with a strong tradition of research since its inception and situated in the culturally rich and exotic city of Jaipur. The programs designed in School as a blend of core science and interdisciplinary topics that will serve as a launching pad for pretty good career opportunities in academia and industry.

- Applied Science and Research are recognized as the single most important tool in creating a pool of thinkers and world leaders in Science and Technology. Science and Technology driven economy in the world has sustained an edge in developmental goals in the world.
- In India, applied science and research has gained popularity and relevance in higher education through various governmental initiatives.
- Suresh Gyan Vihar University has an initiative which is in line with the global perspective in Science education. The programs are designed as a blend of core science and interdisciplinary topics that will serve as a launching pad for attractive career opportunities in academia and industry.



- Students of science are being recruited in large numbers in Industry because of their intellect, their problem-solving skills and their understanding of basic concepts.

### **School of Interdisciplinary & Liberal Studies**



The most effective artists and communicators are those whose knowledge is broad and multifaceted. The Interdisciplinary & Liberal Studies program has been specifically tailored to allow students to fashion a course of study that blends their interests, talents and experience. Suresh Gyan Vihar University enables students to examine the world across diverse disciplines and perspectives that add intellectual depth to their studies through Foundation Courses, Major Courses (including Interdisciplinary Majors) and Co-Curricular Courses. In a world where media platforms and communication technologies are in almost constant flux, this program offers permanent lessons and delivers foundation skills and knowledge that will stay with you and enhance your work and career, forever.

- Welcome to the School of Interdisciplinary and Liberal Studies, Suresh Gyan Vihar University. Within a short period of its establishment in 2009, It has emerged as the epicenter of cultural, creative and academic activity at National and International level with students creating a multi-cultural environment and a vibrant network of global students.
- Committed to achieve the five objectives of Higher Education; Pedagogy, Extension, Application, Research and Learning; the school offers Graduate, Post-Graduate and Doctoral Research Programs in English Literature.
- The courses have been designed methodically to provide rigorous knowledge of subjects to students as well as to enhance their critical and analytical abilities. The curriculum offered is credit based and in line with premier educational institutions in the sphere of literature. It is continuously upgraded to incorporate the innovations and best practices from national and international universities.

## School of Education



Declared objectives for promotion of education (general, technical and professional) research, training, social welfare and modern technologies and according to the best and latest emerging trends. The college emphasizes search of high ideals mainly excellence in teaching and learning, high accomplishment levels, all round development of personality, self reliance, innovation and introduction of new technologies, besides ensuring professional growth of future teachers and teacher- educators. We have a long tradition of welcoming students from dissimilar places and we make a special effort to make you feel at home.

School of Education with the purpose to develop the University into a centre of excellence in teaching and research, which is at par with International standards.

## School of Pharmacy



Gyan Vihar School of Pharmacy, established in 2003 is one of the best leading institutions of Pharmaceutical Education and Research in Rajasthan. The School of Pharmacy is running successfully Undergraduate course (B. Pharm) since the year 2003, has post graduate (M.Pharm) programs in Pharmaceutics, Pharmacology, Medicinal chemistry and drug discovery, Pharmacognosy and Quality Assurance since 2008 and Pharmaceutical biotechnology since 2009. The School is also offers Ph.D. programs. We have experienced & qualified faculty members and about 350 students every year make the family of the School.

This premier Institute has completed yet another year preserving its heritage of high standards in teaching and research in the field of Pharmaceutical Sciences. Our main objective is achieving excellence in the field of pharmacy.

Institute has completed yet another year preserving its heritage of high standards in teaching and research in the field of Pharmaceutical Sciences. The primary motives are:

- To develop globally competitive pharmacists / Pharmaceutical Scientists
- Promote scientific research and development
- Catalyze faster lab scale research and development with commercial/ industrial potential

The students of Suresh Gyan Vihar University have the opportunity to work in well-furnished and organized research laboratories equipped with advanced instruments in various potential areas like Novel Drug Delivery Systems, Ocular Pharmacology, Pharmaceutical Chemistry, Genome Research, Pharmacokinetics, Hospital Pharmacy, Antifertility and Infertility, Indian System of Medicine, Herbal Drug Technology, Clinical Research, Cardiovascular Research, Quality Assurance, etc.

Each department possesses its own lab space furnished with highly sophisticated instruments for post graduates and Ph.D. researchers in addition to basic requirements for practical training of undergraduates.

Air-conditioned library enriched with thousands of books, journals and magazines from various disciplines of Pharmacy is accessible. All the buildings have Internet facility at their disposal round the clock through Information Technology Center equipped with more than 100 computers.

A dedicated Training & Placement Cell with well-furnished hall for pre-placement talks, two group discussion and interview rooms is available catering the need of campus placement of the University.

Our dedicated staff, excellent facilities and committed students have effectively combined to make the School of Pharmacy, Suresh Gyan Vihar University of a name to cherish with.





## 5.INDUSTRIAL & UNIVERSITY TIE UPS




Suresh Gyan Vihar University is always striving to set an example for the new dimension of industrial relationship with university.



S.No .	COLLABORATING INSTITUTE/INDUSTRY/CO RPORATE	LOGO	OBJECTIVE
1	<b>EDCIL</b>	 <b>EdCIL (India) Limited</b> A Mini Ratna Category-I CPSE Company A Government of India Enterprise   ISO 9001:2015 & 14001:2015	To get overseas admission
2	<b>Ayushraj Enterprises Pvt. Ltd.</b>  35, sushilpura (south) Dharam Park, Sushilpura, Jaipur		Both will play an effective role as committed to facilitate Industry-Academia interaction activities by way of joint research projects, consultancy, contract research, testing internship/dissertation work, placement etc. in the areas of their mutual interest and benefits.
3	<b>National Research Development Corporation, NRDC, New Delhi</b>  20- Community Centre Extension, Zamrudpur, Greater Kailash, New Delhi, Delhi		SGVU focuses on identifying key strategic partnerships and disseminating information about opportunities to expand and deepen these partnerships with NRDC.  • NRDC is assisting SGVU in patent filing, technology transfer and commercializing
4	<b>CyberJaya University College of Medical Science, Malaysia</b>  3410, JalanTeknokrat 3, Cyber 4, 63000 Cyberjaya, Selangor, Malaysia		Association with CyberJaya University College of Medical Science, Malaysia with School of Pharmacy will facilitate research in the pharmaceutical industry. The conferences and seminars can be jointly conducted and students can benefit through the various exchange programs which will help in orientation towards research and developing employability skills.



5	<p><b>Satya Wacana Christian University - SWCU , Indonesia</b></p> <p>Jl. Diponegoro No. 52-60, Salatiga, Jawa Tengah, Indonesia</p>		<p>SGVU has agreed to establish this relationship as a framework for cooperative programs.</p> <p>Both have agreed for the student exchange program for one semester in the Faculty of Language and Literature (English Major) and the second is the International Class of Management and Accounting Program (ICMAP) from the Faculty of Economics and Business.</p> <p>Electronics and Computer Engineering Faculty are interested in a collaboration program with SGVU</p>
6	<p><b>Arkansas State University, USA</b></p> <p>2105 Aggie Rd, Jonesboro, AR 72401, United States</p>		<p>Mutual cooperation in the development of curriculum and research.</p>
7	<p><b>Daffodil International University, Bangladesh</b></p> <p>102 Mirpur Rd, Dhaka 1207, Bangladesh</p>		<p>SGVU is committed to increasing study abroad opportunities for students across all schools and departments. The student exchange program has already been offered and process sent.</p> <p>Open for student exchange, Faculty Exchange, Winter/Summer Program, Internship opportunities, research collaboration, online resources sharing and scholarships, etc.</p>

8	<b>NRDC Technology Transfer</b>		NRDC is assisting SGVU in patent filing, technology transfer and commercializing.
9	<b>King's University College at The University of Western Ontario, Canada</b>  266 Epworth Avenue, London Ontario, Canada		SGVU and King's University has agreed to offer fantastic worldwide mobility opportunities to students as well as faculty across the two universities. Therefore both have collaborated for the exchange of: <ul style="list-style-type: none"> <li>• Semester abroad (4 months)</li> <li>• Twinning of degree programs</li> <li>• Faculty and research exchange</li> </ul> Short term – Summer Program has already been offered in management.
10	<b>Kamtech Associates Pvt. Ltd.</b>		Association with Kamtech Associates Pvt. Ltd. will establish Industry-Academia partnership and collaboration and to promote joint research activities and exchange programs/ activities for faculty and students.
11	<b>Mapua Institute of Technology, Philippines</b>  Muralla St, Intramuros, Manila, Metro Manila, Philippines		SGVU and Mapua are exploring possibilities for a: <ul style="list-style-type: none"> <li>• Dual degree in PhD in Environmental Engineering (Mapua) and PhD Renewable and Sustainable Energy and/or PhD Energy Efficiency (SGVU);</li> <li>• Triple degree in MS Mechanical Engineering/MS Environmental Engineering (Mapua) and M. Tech Renewable Energy (SGVU).</li> </ul> In this model, there will be a combination of academic and research activities. Also are they open to

			<ul style="list-style-type: none"> <li>• Research Projects</li> <li>• Student exchange</li> <li>• Faculty Exchange</li> <li>• Summer/ Winter Internships</li> <li>• Joint academic programs.</li> <li>• Joint Conferences/ Seminars and Workshops</li> </ul>
12	<b>University of Almeria, Spain</b> Ctra. Sacramento, s/n, 04120 La Cañada, Almería, Spain		SGVU encourages creating a distinctive international educational experience for the students of both the universities. For this, both have collaborated for the Joint Research, Exchange of information and practices.
13	<b>University Estradual de Londrina</b> Parana, Londrina, brazil		Aims to establish academic, scientific and technical cooperation programs through mobility of students and faculty, proposing joint projects. Foreign Language program will soon be introduces in SGVU as a part of MOU.
14	<b>College Of Agriculture, Baramati</b> Shardanagar Agri Educational Campus Shardanagar, Baramati (MS) India		The objective of MOA is to offer “Student Exchange Programme” between SGVU and College of agriculture which will help in preparing professionals for quality education in field of agriculture with an international exposure.
15	<b>University Of South Wales</b> CF37 1DL Pontypridd, United Kingdom		There will be collaborative programs between both the institutions in the field of Business, Engineering and Health sciences subject areas.
16	<b>University of Wolverhampton, UK</b> Wulfruna St, Wolverhampton WV1 1LY, United Kingdom		SGVU has entered into an agreement with University of Wolverhampton and is focusing on these: <ul style="list-style-type: none"> <li>• Oil &amp; Gas engineering- agreed to establish a New</li> </ul>

			<p>course for academic cooperation</p> <ul style="list-style-type: none"> <li>• PHD options- Students will be accommodated into PHD programs. Distance PHD can also be employed which can significantly bring down the costs. This is open to both students/ teachers.</li> <li>• Direct entry in their UG &amp; PG courses- for UG and PG students who will be given adequate credits for advance entry into our UG courses</li> </ul>
17	<p><b>London Business School, Srilanka</b></p> <p>No 323,, Galle Road, Colombo 04, Colombo, Sri Lanka,</p>		<p>The students at SGVU and LBS will be benefitted not only from our academic strength and fantastic campus facilities but are also given the opportunity to develop new skills and enhance their employability through Student/Faculty exchange, internships and training, conferences, seminars and Research Projects</p>
18	<p><b>Ecohooy LLP</b></p>		<p>This collaboration will give opportunity to students to undergo training and undertake projects in different disciplines. This will give students an industrial exposure beforehand.</p>
19	<p><b>The Global Institute for IT Management</b></p> <p>Greater New York City Area</p>		<p>This alliance will cover the following activities with the ISBM department of SGVU:</p> <ul style="list-style-type: none"> <li>• Joint academic programs.</li> <li>• Research Projects</li> <li>• Student exchange</li> <li>• Faculty Exchange</li> <li>• Summer/ Winter Internships</li> <li>• Joint Conferences/ Seminars and Workshops</li> <li>• Joint cultural program</li> </ul>

20	<b>PhD Chamber of Commerce And Industry</b>  PHD House, 4/2 Siri Institutional Area August Kranti Marg, New Delhi		PHDCCI will associate with SGVU in organizing and co-hosting of C3W (Convention on climate change and water) once a year. It will also enhance industrial participation for C3W by organizing industrial expo.
21	<b>Navjyoti India Foundation</b>  Khasra No. 99, Majri Karala, Rohini Sector-22, Delhi		SGVU and Navjyoti will act in association for planning, organizing and providing support in the SGVU-C3W initiatives and the final convention of C3W. Navjyoti will also guide students and provide training to them for two weeks every year.
22	<b>Zenvision Pharma LLP.</b>  Navi Mumbai		Both will focus on joint research activities and projects. Emphasis on the submission of joint Research proposals of mutual interest to government and non-government agencies for funding will take place.
23	<b>RSP Hotels Pvt. Ltd.</b>		The hotel has approached the university for following support: <ul style="list-style-type: none"> <li>• Recruitment</li> <li>• Training</li> <li>• Manpower Development</li> <li>• Summer Internship</li> <li>• Projects on Credit transfer basis</li> <li>• Branding and positioning</li> </ul>
24	<b>Virbac Animal Healthcare Pvt. Ltd.</b>		Submission of joint Research proposals Research/collaborative activities like seminar workshops. House research projects based on finding solution to industrial problems.
25	<b>San Carlos School of health care professionals , Philippines</b>		School of Pharmacy and San Carlos School of Health care Professionals are exploring to deliver exciting exchange opportunities, world-class education and internationally important research to SWCU

	Robert Hoeppner Building, Talamban, Cebu City, Philippines 6000		<ul style="list-style-type: none"> <li>• Research Projects</li> <li>• Student exchange</li> <li>• Faculty Exchange</li> <li>• Summer/ Winter Internships</li> <li>• Joint academic programs.</li> <li>• Joint Conferences/ Seminars and Workshops</li> </ul>
26	<b>Agriculture Development Trust (ADT), Baramati, Shardanagar, Malegaon Colony 413115</b>  <b>Van Hall Larenstein University of Applied Sciences (VHL), Velp, The Netherlands</b>	  	To explore developing academic and educational cooperation, to explore establishing collaborative programs on the subjects Land and water management, Engineering, Agriculture, Agribusiness and Animal Husbandry.
27	<b>Bosch Rexroth</b>		They are establishing lab in Suresh Gyan Vihar University campus for research and development purposes.
28	<b>BSE</b>		Main motive is to educate students about Indian Stock Exchange. Implementing its new developments in the curriculum.



29	ACCA & Stratagem Financial School	 	Curriculum development and help students of achieve their and become future CAs
30	Google Asia Pacific Pvt. Ltd		Consultancy with the University to help it design courses for its students
31	Amazon		Consultancies helps in designing the major courses for the students inspired by current trends.

32	University of Cincinnati		Major collaboration in the areas of research and development.
----	--------------------------	--	---

### 3. RESEARCH FOCUS: CENTRE OF RESEARCH

We encourage our faculty members to always have at least one research project support by the industry or the government. Some of the important projects are as follows:

1. Solar Radiation and Weather Station by MNRE, Govt. of India.
2. 240KWA Solar Power Plant under Green Energy and Climate Change by Govt. of India.
3. Hydroponics Agriculture in association with industry.
4. Controls & Automation by Bosh-Rexroth etc.

High quality research of the faculty members have been converted into 28 patent applications and 2 copy rights, till date out of which 4patents have been awarded and 2 technology transfer have been achieved.

### 4. INFORMATION ABOUT ALL CENTRES OF EXCELLENCE

Suresh Gyan Vihar University have 5 Centers of Excellence doing an outstanding task in their own fields.

1. Centre for Climate Change & Water Research.
2. Learning of Excellence with Google.
3. Centre for Cloud Infrastructure and Security.
4. Centre for Agriculture Research.
5. COE for Renewable and Suitable Energy.
6. Ecosystem for Innovation and entrepreneurship (EIE).

7. Centre for Democratic Reforms and Development.
8. COE in training and research in Automation with Bosch Rexroth.
9. COE in Housekeeping and travelling.
10. Centre for skill development an extramural study.

### **1.Centre for Climate Change & Water Research.**

To evolve as a single converging platform for diverse related with climate and water, C3W aim that Climate discussions should not end with political and scientific leaders, but concerned global citizens should have a voice as well. All campaign, program and efforts planned under C3W, are meant to find practical solution for sustainable future. Thus C3W is a working group of professionals driving various student and youth movements focused on climate and water issues.

### **OBJECTIVES OF THE CENTER**

- To generate new data and knowledge on the climate variability (spatial and temporal variations and forcing functions) of the Indian sub-continent and its bearing on global scale
- To impart training for capacity building and manpower development in earth systems and climate studies.
- To develop infrastructural facilities for climate change research related to observational, experimental, analytical and modelling studies.
- To facilitate information, literature and data collection and dissemination related to climate change scenarios in India.
- To make policy makers aware of the key issues related to climate change.

### **THRUST AREAS OF THE CENTRE**

- THRUST AREA I: Global warming climate change research
- THRUST AREA II: Research Centre near Sambhar Lake
- THRUST AREA III: Glaciological study of the Pindari Glacier, Uttarakhand, India
- THRUST AREA IV: Kacholiya village adopted to make it model town

**Convention on Climate Change and Water (C3W) 2012,2013,2014,2015, 2018:**

Suresh Gyan Vihar University's Annual Convention on Climate Change and Water (C3W) is a global consortium to foster local, national and international conversations to create a unified voice that will guide and influence people, institutions and governments on how to best address the issues of climate change, water crisis and sustainability. Climate discussions should not end with political and scientific leaders, but concerned global citizens should have a voice as well which is provided by C3W. For last few years it is successfully bringing together all the communities committed to saving the planet under one roof. Till date the Centre has successfully completed 04 conventions i.e.:

### **International & National Tie-ups (both academics & Industry) in current Year:**

Centre for Climate Change & Water Research have tie-ups with some persons as Industrial Mentor for mentoring our students.

### **PRINT JOURNALS:**

Suresh Gyan Vihar University International Journal of Climate Change and Water, ISSN: 2347-7741 (Annual).

The journal has successfully published 5 volumes with more than 100 research articles published on various area of climate change & sustainable development.

### **FUTURE THRUST AREAS**

- Reclamation of mining area in Kota and Jhalawar District, Rajasthan as they are generally falls under wastelands so planning and proper development of these mining areas.
- Identification & delineation of Rainwater harvesting structures in Rajasthan state
- Smart city technology includes integration of multiple information and communication technology i.e. local departments' information systems, schools, libraries, transport and traffic management, energy, health care, water, innovative urban agriculture and waste management etc.

### **CENTRE OFFERING VARIOUS COURSES:**

1. Ph.D, M. Tech & M. Science Geoinformatics
2. Ph.D, M.Sc in Sustainable Development
3. Ph.D, M.Sc in Disaster Management

## **IIRS-Outreach Programme**

Centre for Climate Change and Water Research signed MOUs with IIRS (Indian Institute of Remote Sensing), Indian Space Research Organization sponsored IIRS-EDUSAT outreach programme. This program will give us a new direction to our study, teaching & learning prospects, as well as a new dimension in our education system. The Certificate Courses will be helpful to aptitude development of skill for Students, faculty and all Staff members of our institutes and our society also

## **LABORATORIES**

The Centre is fully equipped with latest instruments and software's on satellite image processing and modeling like: GPS, Total Station, theodolites, Micro station, Arc GIS, Erdas Imagine, satellite imageries (Hard & soft), Topographical Maps, Laser finder etc.

### **Workshop/ Trainings**

**The Centre has successfully conducted workshop and trainings on** SPSS Software, Social Surfing, International GIS Day, Water conservation and Management.

### **2.Learning of Excellence with Google.....**

In an effort to prepare students for a new era of the digital world, Suresh Gyan Vihar University has launched cutting-edge programs in collaboration with Google. The university is all set to become a highly flexible organization that can deliver extraordinary learning experience for B. Tech and BCA students. The hands-on, flexible approach enabled by Google will empower students for the challenges of the rapidly advancing world.

The aim of this partnership is to create a community of independent thinkers by fostering collaborative learning. The university wants its student to learn the most advanced technologies to be competitive and job ready. With this vision, it has introduced new-age programs to enhance the employment potential of B. Tech and BCA students

## **Features**

- Android Training
- Google apps for work (Deployment Training)
  - Google App Engine (Training on what the entire google platform is based on and the architecture as well as scalability of the platform)
- AdWords/Analytics Training
- Google Apps for Education Training
- Chromebooks Training
- App Engine Training
- Digital Marketing Training

## **Certifications**

- Official Google for Work Certification
- Official Google Cloud Certification
- Official Google Analytics IQ Certification
- Official Google Adwords certification
- Official Google for Education Certification
- Official Android Training from Google
- Beginners
- Nano Degree



### **3. Centre for Cloud Infrastructure and Security.**

Cloud Infrastructure & Security Research Centre (CCIS) has been setup at the Suresh Gyan Vihar University, Jaipur. The primary focus of CCIS is to conduct high quality research in the general areas of cloud computing, security, and performance optimization in Networking, at affordable costs. The Centre provides a platform to defense against other threats such as information warfare. Our mission is to develop information infrastructures into more secure and reliable cloud infrastructures and to enhance the communication networks and protocols of today's best-effort Internet. The goal is to explore allied areas of cloud computing, IOT, Big data networking data protection, with the emphasis on verified designs, implementation, and evaluation of secure network systems, protocols, and applications. University research facilities include campus wide wired and wireless networks as well as a heterogeneous collection of computing systems and some new infrastructure. In effect, Suresh Gyan Vihar University is an extensive test bed with several thousand wireless networked computers and active users.

#### **Key Areas Identified for Research Work by Cloud Infrastructure & Security Research:**

- Storage Options in the Cloud
- Defining Fault Tolerant Applications in the AWS Cloud
- Overview of Amazon Web Services
- Architecting for the AWS Cloud
- Design & developments of Secure Network Protocols & Algorithms
- Network and systems security protocols, Architecture & Performance Measurements & Analysis
- Low Cost Secure Wireless network & Mobile Communication & Converged Access Devices
- Wireless LAN Modeling, Analysis, Deployment & Testing
- Effectively Design technologies such as MANET, 802.11, 3G/4G, Ultra-Wide Band, 802.16 and Bluetooth
- Development and deployment of cost-effective and relevant services in such areas as e-Governance, e-learning, telemedicine.
- Design and development of security administration software
- Network Monitoring, Biometric devices, Surveillance and Forensics through Intelligent Traffic Analysis

**Support from Amazon Web Services:**

- Training the staff members of the research centre
- Delivery of 2-3 Modules during PG Programs of the research centre & other UG
- Programs for University
- Providing Infrastructure for research based on Cloud & Security
- Amazon Elastic Compute Cloud
- Auto Scaling
- Amazon Storage Services
- Amazon cloud watch
- AWS Cloud Credit for Researchers

**Unique Features of Programs offered by CCIS**

- Cloud Architect and Solution Provider
- AWS Cloud Associate
- Big Data Analytics
- Hadoop Framework for Big Data Analytics
- Cloud Security
- Load balancing over Cloud
- Resource Provisioning over cloud
- Machine Learning over Big Data
- Internet of Things
- Open Stack

**Programs offered**

- Dual Degree (B.Tech CSE & M.Tech Cloud Computing & Security)
- M.Tech Cloud Computing & Security
- Ph.D. Engineering & Technology (Cloud Computing)

**R&D Achievements of CCIS**

- 3 Full Patent Published
- 2 Provisional Patents
- Research Proposals of Rs. 1 Crore Submitted to Various Funding Agencies
- More than 15 Publications in SCI/SCOPUS Journal
- 7 Scholars Pursuing Ph.D in Cloud Computing, Infrastructure & Security

- Published 3 Book in International Journals

### **Become Amazon (AWS) Certified:**

Center for Cloud Infrastructure and Security (CCIS) at Suresh Gyan Vihar University offering various programs in collaboration with AWS Academy.

### **3.Centre for Agriculture Research.**

The hydroponic (Soilless) cultivation of horticultural crops is a unique feature of Suresh Gyan Vihar University in Rajasthan. None of any State Agricultural Universities and private universities have this type structure in Rajasthan. The hydroponic unit was setup on the roof of ISBM building in the area of 160 m<sup>2</sup> (16 m x 10 m). This hydroponic unit is fully modernized with provision of misting, thermostat dome, cooling fan pads and timer. There are eleven stands in this hydroponic unit, in which seven stands are vertical and four stands are horizontal. The primary objective to establish this structure to give training to students, rural youths and progressive farmers in hi-tech horticulture. There is requirement of this type structure for feeding of increasing population. In present scenario, major challenges are water scarcity, agriculture land is converting in housing colonies, poor fertility of soil and population is increasing day by day. Due to above facts, only option is to grow quality fruits and vegetables as well as use roof for food production by using minimum water. In this unit our university is providing trainings to agricultural students, entrepreneurs, progressive farmers and amateurs etc. The following activities are included in training program:

1. Setting up of structures for hydroponic system
2. Different materials used for cost effective production
3. Seedling preparation and transplanting of seedling
4. Use inert material as growing media
5. Nutrient solution preparation for hydroponic cultivation
6. How to maintain pH and EC of nutrient solution?
7. Microbial test of nutrient solution at proper interval
8. Intercultural operations for cultivation
9. Precaution in harvesting leafy vegetables and other vegetables and fruits
10. Grading, packing and packaging as well as marketing of produce.

### **PROTECTED CULTIVATION / POLY HOUSE**

The Suresh Gyan Vihar University has a modern poly house at Agricultural Research Farm. This is also a unique feature at our University. This unit was setup in total 2000 sq. meter area with fully equipped including fans, foggers, drippers, etc. The main objective to establish this poly house to develop skills of hi-tech agriculture in students. In present scenario, there is great challenges

of climate change, water scarcity, poor soil quality, threat of insect-pests to produce quality produce. The protected cultivation is the best option to overcome these challenges. The Suresh Gyan Vihar University is preparing our students by developing hi-tech skills like protected cultivation, fertilization, trickle irrigation, etc. The faculty of School of Agriculture is training our students in raised bed preparation in poly house, seedling preparation, transplanting, manuring and fertilization, insect-pest management, training and pruning of vine crops, harvesting, packing & packaging, marketing, etc. We are also preparing our students internationally with complete training of protected cultivation.

#### **4.COE for Renewable and Suitable Energy**

The Center of Excellence “Renewable and Sustainable Energy Studies” (COE-RSES), SGVU University, Jaipur engages in academic programs, research, professional training and consultancy in the fields of renewable energy, energy efficiency and energy management for the sustainability.

#### **VISION**

- To be a leading, high-impact center of excellence in **energy education, energy management and thought leadership** to support the transition to a sustainable world.

#### **OBJECTIVES**

- To be a dedicated expert knowledge center on Renewable and Sustainable Energy.
- To provide trained manpower for Renewable Power Systems design, installations and testing to industry, consultants and turnkey project organizations.
- Energy conservation, Energy efficiency and Energy audit to industries/Consultants
- Testing of Renewable Energy Systems.
- To trained manpower for operation and maintenance of Renewable Energy Plants.

#### **Academic programs**

- Ph. D,
- M. Tech,
- B.Tech DD + M.Tech

## WEATHER STATION



- The Suresh Gyan Vihar University feels proud to be a part of the “national project on the net work of the solar radiation resource assessment (SRRA)” for developing solar atlas of the country. this nation-wide project has been launched by the ministry of new & renewable energy (govt. of India).
- The precise knowledge of the solar radiation quite accurately measured from this weather station will help to the B.tech, M.Tech, Ph.D students for their dissertation/thesis work and as well scientists for designing the better and efficient solar systems for the society.



## **SOLAR POWER PLANT (110 kW)**



The PV solar panels will cover about 1200m<sup>2</sup> area on the roof tops of Library buildings. The key features of this solar power plant are as follows:

1. It will meet 40% electricity requirement of the University.
2. It will save about electricity 1.5 lakh units/year.
3. The life-term of the solar power plant is expected to be more than 25 years.
4. The expected pay-back period is about 4 to 5 years.
5. Power station will be grid connected with import and export of power meters.
6. The solar power plant will be functional and operational all the days for the generation of electricity.
7. The surplus power generation during close days/partially close days of the University will be fed to grid.
8. The investment cost will be recovered in a period of 5 years.



## **NATIONAL AND INTERNATIONAL COLLABORATIONS**

- National Project on Solar Radiation Resource Assessment (SRRA) Installed and maintained by MNRE
- The Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)
- Scope Through the present MOU, ENEA - UTTRI and SGVU aim at fostering mutual relations and promoting scientific cooperation between researchers of ENEA - UTTRI and faculty & students of SGVU.

### **11. Ecosystem for Innovation and entrepreneurship (EIE).**

Centre has been stated in association with Welspun Energy Noida, Ministry of New and Renewable Energy and First Green Energy, Gurgaon.

Suresh Gyan Vihar University has identified the exemplary problems faced by the different organizations, presenting a global solution towards the problem by the different countries in common.

Innovation and entrepreneurship are vital sources of growth inculcating personal growth for entrepreneurs as well as the market growth for that develop new product and services. Further, the growth for municipalities, regions and countries in the form of increased employment and sustainable output such as food, healthcare and energy.

In our centre of excellence we believe Innovation and entrepreneurship both simultaneously cannot exist in a vacuum. Rather, they are “business ecosystems”, the result of multiple actors jointly creating something new local communities, small and medium enterprises, large corporations, non-governmental organizations, knowledge institutes, and governments. Within these ecosystems actors are increasingly interdependent. And so innovation and entrepreneurship need to be understood in their social, institutional, economic and geographical context.

The research group Innovation and Entrepreneurship in Business Ecosystems aims to provide knowledge for entrepreneurs, and policy makers about how innovative ecosystems should be designed, supported and managed to create value for the actors involved and society at large.

It is the mission of Suresh Gyan Vihar University to carry out state of the art research into complex problems of governance and management, with the aim of explaining the causes of these problems, and using that knowledge to create potential solutions. The complexity of the problems being studied calls for the combination of knowledge and expertise from multiple disciplines, and for collaboration with the societal relevant parties. Our mission is to combine excellence with societal relevance.

## **12. Centre for Democratic Reforms and Development.**

Started with the help of United Nations Democracy Fund.

As it has been keenly observed by the United Nations Democracy Wing that economic failures and social distress drive an intensification towards entrepreneurship enhancing the public interest. Suresh Gyan Vihar University looks forward to provide guidance and pathways towards the right set of entrepreneurship skills.

A constructive ecosystem of entrepreneurship stages the crucial role for successful development of small and medium enterprises that supports the economy and ensure the sustainability. One of pre conditions of encouraging business environment is its' stability, and trust in long-term stability.

Meanwhile the global economic crisis has created a state of economic and political instability, consequently affected trust of business entities, and therefore contributed to increase of social and economic risks.

Suresh Gyan Vihar University ensures the trust of new generation in the entrepreneurship of India, which also examines the causes and consequences of calculated risks required for the growth of an important institutional resource.

## **13. COE in training and research in Automation with Bosch Rexroth.**

Initiated with the partnership and mutual support of Bosch Rexroth.

Suresh Gyan Vihar University, Jaipur has established the Bosh Rexroth automation laboratory as Centre of Excellence in Automation Technologies in collaboration with Bosch Rexroth AG, Germany. The main objective of the centre is to bridge the technological gap and focus on training and research programs which will help in catering to the growing demand from engineering and manufacturing industries in India.

This Centre is an initiative to prepare young engineering graduates to meet the requirements of current industrial demand for the global challenges in manufacturing sector. The Centre consists of a world class infrastructure with state of the art technologies, equipments, training kits, hardware, software and teaching aids with excellent faculty trained by Rexroth Germany.

The center has laboratory as par with international standard on Hydraulics, Pneumatics, Sensorics, Drives & Control and Mechatronics. The centre aims to provide training to under graduate and post graduate students as well as industry professionals to meet industry requirements. These trainings will enhance the competency levels of the students for better employability.

Last two decades has witnessed a tremendous surge in the application of Automation Technology in Indian Industries partly as a means to reduce the cost of production and partly to improve the quality of their products so that they become competitive in the international market. This has become necessary after opening up our economy to the global market. Automation requires knowledge in drives and controls, which in turn requires insight in Sensorics and Mechatronics. Full benefit of automation can only be realized when fundamental principles governing these areas of study are properly understood.

#### **14. COE in Housekeeping and travelling.**

Started with association of Karcher, Germany.

The family-owned company Karcher is today the world's leading provider of efficient, resource-conserving cleaning systems.

Suresh Gyan Vihar University has achieved remarkable progress in terms of honing new technologies and patents, hence the synergy with such a technologically advance organization has proven to be valuable. Kärcher makes a difference through top performance, innovation and quality.

Kärcher cleaning machines combine functionality, user-friendliness and sophisticated design. Kärcher's innovation and drive to achieve better solutions set the company apart and have been proven again and again by patents and awards from renowned institutions.

Kärcher is constantly striving to achieve the best solution to every cleaning task. This is why we develop powerful systems made up of perfectly matched cleaning machines, accessories and cleaning agents.

In order to best meet the needs and preferences of our customers, we are in constant discussion with both private and professional operators. The insights that we gain from this have a direct influence on the development of new products. This means that we can ensure that each new innovation not only meets the requirements of increasingly complex cleaning tasks, but that it makes work as easy and straightforward as possible for operators.

### **15. Centre for skill development an extramural studies**

Initiated with the association with National Skill Development Agency, GOI. Suresh Gyan Vihar University has achieved its primary objective of taking education to even the remotest parts of the Country, now looks forward to building a sustainable society. Vocational Education plays a key role in the upgrading of the bulk of our rural and semi-urban population by providing them with newer and promising employment opportunities.

These new avenues of income generation, provided through vocational education, help in skills development of an individual as well as aids in uplifting the living standard of the entire family. Thus, making its contribution in the development of a literate and Self-sufficient Society. Making a country develop and more independent.

The Centre for skill development has tuned in with these objectives, further started several new programs which have been made keeping in mind the market requirements.

Centre for skill development an extramural studies offer to provide knowledge enhancement, skills development and help in preparing an individual for job placements in the market.

At our Skill development Centre, we are enabling self reliance is the belief that permeates everything we do. Our aim is to impart education and training to children, youth and women so that they can live a self-reliant life of dignity and respect. With this mind, we have set up several vocational training programs across all our projects. These programs provide marketable skills to the beneficiaries that can help them get competitive jobs.



## Social Responsibilities

Students along with the faculty members work together, in a passionate and responsible manner for the development of rural life at Kacholia village. They make the rural development assessment time to time, hence we create awareness among our participating students and faculties in order to encourage them to find the solution of their different problems.

**Kacholia Village:** Kacholia is a Village situated in Malpura Tehsil in Tonk District of Rajasthan State, India. It belongs to Ajmer Division. It is located 57 KM towards west from District Headquarters Tonk. 93 KM from State capital Jaipur. Kacholia is surrounded by Arain Tehsil towards west, Todaraisingh Tehsil towards South, Phagi Tehsil towards North, Tonk Tehsil towards East. Malpura, Todaraisingh, Tonk, Niwai are the nearby Cities to Kacholia.

**Suresh Gyan Vihar University has undertaken the four major tasks to improve the lifestyle of the people:**

### Energy Solution

Electricity creates opportunities for people to lift themselves out of poverty. Real global development cannot happen without energy particularly in rural areas, where more than 80 percent of the world's energy poor reside. Smart Power for Rural Development for the village named Kacholia fills the energy gap by bringing together electricity from solar cells and hence these technology experts a boom towards local businesses and making the life of the people easy in order to build viable partnerships around renewable energy

solutions for the rural population. Suresh Gyan Vihar University proves the solutions, such as mini-grids, are fast to build and produce sufficient capacity to power entire villages. They are also based on solar power or biomass, providing clean energy. Smart Power goes beyond electricity for households. Our focus is to ensure the provision of high quality, reliable energy that drives economic opportunity.

We do this by:

- Creating the right incentives for energy providers to enter and succeed in rural markets,
- Stimulating local economies through energy-enabled micro-enterprise development,
- Encouraging technology innovations developed by students to support the villages.
- Coordinating with national and local governments to facilitate more open policy
- Environments for the development of such rural areas.

### **Advanced Agriculture**

India is a global agricultural powerhouse. It is the world's largest producer of milk, pulses, and spices, and has the world's largest cattle herd (buffaloes), as well as the largest area under wheat, rice and cotton. It is the second largest producer of rice, wheat, cotton, sugarcane, farmed fish, sheep & goat meat, fruit, vegetables and tea.

But story of rural farming is full of challenges all over as large tracts of fertile land suffer from soil erosion by wind and water. This area must be properly treated and restored to its original fertility.

Two advanced agriculture challenges are important to Kacholia's overall development and the improved welfare of its rural poor:

1. Raising agricultural productivity per unit of land: Raising productivity per unit of land will need to be the main engine of agricultural growth as virtually all cultivable land is farmed. Immensely helped by the basic soil testing procedures along with the support system of the hydroponic lab in order to improve the farming standards. Water resources are also limited and water for irrigation must contend with increasing industrial and urban needs. All measures to increase productivity will need exploiting, amongst them: increasing yields, diversification to higher value crops, and developing value chains to reduce marketing costs.
2. Reducing rural poverty through a socially inclusive strategy that comprises both agriculture as well as non-farm employment: Rural development must also benefit the poor, landless and women. Moreover, there are strong regional disparities: the majority of India's poor are in rain-fed areas or poor soil quality. Reaching such groups and encouraging them for the adoption and development of shade and green houses and soil treatments for the increment in the soil fertility.



### **Awareness programs linked with the healthcare, sanitation and women empowerment.**

Rural Health care is one of biggest challenges facing the Health Ministry of India. With more than 70 percent population living in rural areas and low level of health facilities, mortality rates due to diseases are on a high. To control the spread of diseases and reduce the growing rates of mortality due to lack of adequate health facilities, special attention needs to be given to the health care in rural areas. The key challenges in the healthcare sector are low quality of care, poor accountability, lack of awareness, and limited access to facilities.

Various organizations are coming together for improvements in health care and technology plays a crucial role to facilitate this.

Social campaigns conducted on different platform of Suresh Gyan Vihar University are an initiative to identify, understand and get solutions for public problems and social issues. The campaigns are active discussions where the community members are engaged to contribute their views about various issues, and our team helps coordinate these discussions into manageable threads. We have done campaigns on various issues and received tremendous response on our voice based medium on mobile phone, much higher than simple broadcast of information on radio or television. The results for information dissemination and call-to-action through these campaigns have been phenomenal.

A comprehensive strategy for promoting sanitation in rural areas of Kacholia village was first developed by the centralized work of students and faculty members with a view to provide the population with protected water supply and basic sanitation facilities over a period of time.

It was envisaged that an of rural population would be provided with sanitation facilities by the end of one plan period. Rural Sanitation Programme of Suresh Gyan Vihar University specialized in rural development. Rural sanitation was made a component of 20 point programme and was also included under the Minimum Needs Programme of student projects.

Empowerment is a multi-faceted, multi-dimensional and multi-layered concept. Women's empowerment is a process in which women gain greater share of control over resources - material, human and intellectual like knowledge, information, ideas and financial resources like money - and access to money and control over decision-making in the home, community, society and nation, and to gain 'power'.

According to the women of Kacholia village, "Empowerment means moving from a position of enforced powerlessness to one of power". The process by which people, organizations or groups who are powerless become aware of the power dynamics at work in

their life context to develop the skills and capacity for gaining some reasonable control over their lives and exercise this control without infringing on the rights of others and support the empowerment of others in the community

## **Education**

Kacholia Local Language is Hindi. Kacholiya Village Total population is 1798 and number of houses are 335. Female Population is 48.9%. Village literacy rate is 52.5% and the Female Literacy rate is 19.5%.

An amazing transformation has occurred in the course of a generation. Young men and women in rural areas of Kacholia are far surpassing their parents' levels of education. Two generations ago, people in remote villages were largely unlettered: there were hardly any schools in remote areas. And it is still common to find low educational levels among village residents who are 40 years old and older. But the students of Suresh Gyan Vihar University have worked really hard organizing different programs in the school and meeting to educate the small kids and village elders about the new system of education.

A wide gulf exists between education provisions in cities and villages of India. The cities, which have undergone major changes since independence, have great resources and infrastructure that is required for quality education to be delivered to the citizens. Compared to cities and the developed townships, the villages still have poorly developed infrastructure and meager resources and Suresh Gyan Vihar University is working hard to bridge this gap. As is apparent from the existing situation, the extension of services to rural areas is very difficult. One of the major obstacles in this regard is the big difference in the socio-economic conditions.

the local population cannot afford such a price and therefore compromise on the quality of education, hence Suresh Gyan Vihar University offers scholarships and in some cases free education to the rural area students in order to encourage them to study. Equality in education is one of the basic rights, which has to be guaranteed to all the citizens. Many villages on the extreme do not have any means of educating the local populace and remain outside the education circle in the country.