



ज्ञान-विज्ञान विमुक्तये

**UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI – 110 002**

Filled in Proforma of information on the performance and academic outcomes of institutions Deemed to be Universities

The information should also be placed on the website of the institution Deemed to be University on home page

I. Information about Institution Deemed to be University

S.No	Particular	Information to be provided
1.	Name and address of the Institution Deemed to be University (Phone Nos, Fax, e-mail and website address)	VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES(VISTAS) , Velan Nagar, P.V.Vaithialingam Road, Pallavaram, Chennai – 600 117, Tamilnadu, India Phone : +91 44 22662501 / 02 / 03 Fax No .:+91 44 22662513 E.mail : vistas@velsuniv.ac.in Website : www.velsuniv.ac.in .
2.	Main campus of the Institution Deemed to be University	VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES(VISTAS) , Velan Nagar, P.V.Vaithialingam Road, Pallavaram, Chennai – 600 117, Tamilnadu, India
3.	Notification No. and Date of declaration as Institution Deemed to be University	Ministry of Human Resource Development, Govt. of India through its' Notification No.F.9-56/2004-U.3 dated 04.06.2008 and by University Grants Commission in its Notification No.F.6-4/2005(CPP-I) dated 30th July 2008
4.	Declaration permanent or subject to review. If subject to review, what is the duration of status?	Subject to review once in five years. UGC Inspection held on 16-17 th May 2019 and UGC Expert Committee has recommended for continuation of Deemed to be University status to VISTAS.

5.	Constituent Units of the Institution Deemed to be University as approved by the University Grants Commission / MHRD along with Notification / Office Memorandum No. and date	UGC Notification No.F.6-4/2005(CPP-I) dated 30th July 2008 1. Vels College of Science 2. Vels College of Pharmacy 3. Vels College of Physiotherapy
6.	Off-campus(es) approved by the Government of India (Notification No. and date for all including part-campuses)	No Off-campus have been started.
7.	Off-shore campus(es) approved by the Government of India (Notification No. and date)	No Off-shore campus have been started.
8.	Name of the Vice-Chancellor and Registrar along with Phone Nos, Fax Nos, e-mail, etc.	VICE-CHANCELLOR Dr.P.Swaminathan Phone : 044-2266 2504 Fax No.: 044-2266 2513 Mobile : 9445419271 E.Mail : vc@velsuniv.ac.in REGISTRAR Dr.P.Saravanan Phone : 044-2266 2501 Fax No.: 044-2266 2513 Mobile : 99625 06245 E.Mail : registrar@vesluniv.ac.in
9.	Accreditations (NAAC/NBA/others)	NAAC : Accredited by NAAC with "A" Grade NBA : M.B.A, B.E., Mechanical Engineering & B.E., Computer Science & Engineering programmes accredited by NBA & B.Pharmacy & B.E., Marine Engineering – Awaiting for approval. Others : School of Maritime Studies Awarded ISO 9001 : 2015 Certification.

II. Performance and academic outcomes (last three years)

S.No	Particular																																			
1.	<p>Graduate Outcomes across Constituent Units / Faculties or Schools / Departments</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>2016-17</th> <th>2017-18</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>(i)</td> <td>Employed</td> <td>1196</td> <td>1412</td> <td>1614</td> </tr> <tr> <td>(ii)</td> <td>Self-employed</td> <td>147</td> <td>87</td> <td>201</td> </tr> <tr> <td>(iii)</td> <td>Higher Education</td> <td>245</td> <td>290</td> <td>377</td> </tr> <tr> <td>(iv)</td> <td>Others</td> <td>167</td> <td>183</td> <td>306</td> </tr> </tbody> </table> <p style="text-align: center;">Department wise details enclosed : ANNEXURE - 1</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>2016-17</th> <th>2017-18</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>(i)</td> <td>Total number of graduates in the relevant year</td> <td>1755</td> <td>1972</td> <td>2498</td> </tr> </tbody> </table>			2016-17	2017-18	2018-19	(i)	Employed	1196	1412	1614	(ii)	Self-employed	147	87	201	(iii)	Higher Education	245	290	377	(iv)	Others	167	183	306			2016-17	2017-18	2018-19	(i)	Total number of graduates in the relevant year	1755	1972	2498
		2016-17	2017-18	2018-19																																
(i)	Employed	1196	1412	1614																																
(ii)	Self-employed	147	87	201																																
(iii)	Higher Education	245	290	377																																
(iv)	Others	167	183	306																																
		2016-17	2017-18	2018-19																																
(i)	Total number of graduates in the relevant year	1755	1972	2498																																
2.	<p>Linkage of the students with the Society (engagement of students in socially productive activities during their period of study)</p> <p>Please provide number of students engaged in such activities along with their mode of engagement & duration as under:</p> <ul style="list-style-type: none"> NSS The Govt. of Tamil Nadu has sanctioned Four Units to VISTAS and there are 400 NSS Volunteers under 4 N.S.S. Officers <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Year</th> <th>No. of Students</th> </tr> </thead> <tbody> <tr> <td>2018 – 2019</td> <td>400</td> </tr> <tr> <td>2017 – 2018</td> <td>400</td> </tr> <tr> <td>2016 – 2017</td> <td>400</td> </tr> </tbody> </table> <p style="text-align: right;">Activities details enclosed – ANNEXURE - 2</p> NCC : Approval obtained from 2019-20 	Year	No. of Students	2018 – 2019	400	2017 – 2018	400	2016 – 2017	400																											
Year	No. of Students																																			
2018 – 2019	400																																			
2017 – 2018	400																																			
2016 – 2017	400																																			

- Legal/Medical Aid Camps

Year	Date of program	Activities	No. of students participated
2018-2019	05/10/2018	Blood donation camp	120
	11/02/2019	Blood donation camp	500
2017-2018	17/07/2017	AIDS Awareness program	50
	10/08/2018	Distribution of deworm tablets	50
	14/09/2017	Health and Hygiene contest	35
	06/10/2017	Blood donation camp	200
	06/02/2018	Blood donation camp	30
	28/03/2018	Eye camp	200
2016-2017	06/10/2016	Blood donation camp	225
	24/03/2017	Eye camp	200
	25/03/2017	AIDS Awareness programme	200

- Social Internships

Year	Date of program	Activities	No. of students participated
2018-2019	15/05/2018	Awareness for 12 th students regarding choice of course	100
2017-2018	15/05/2017	Awareness for 12 th students regarding choice of course	100
2016-2017	04/09/2016	Awareness for 12 th students regarding choice of course	50

- National Mission Projects like SWACHCH BHARAT, etc.

Year	Date of program	Activities	No. of students participated
2018-2019	13/04/2018	Defense expo 2018	120
	12/02/2019	Voters machine awareness	100
	13/02/2019	Road safety awareness	100
2017-2018	10/07/2017	Voter awareness	200
	20/08/2017	Swatch bharath – Railway station cleaning	80
	25/01/2018	Rally for voters day	50
	25/03/2018	Voter awareness programme	200
2016-2017	06/05/2016	Voter awareness programme	150
	16/07/2016	Road cleaning programme	50
	25/01/2017	National voters day rally	400
	21/03/2017	Road cleaning programme	200

- Others

Year	Date of program	Activities	No. of students participated
2018-2019	02/12/2018	Distribution of Gaja cyclone relief funds	100
2017-2018	07/08/2017	Distribution of Nilavembu kashayam	50
	01/09/2017	Tree plantation programme	100
	09/09/2017	Slum area awareness	50
	10/09/2017	Rally for river	300
	05/11/2017	Helping adopted village - Kovilambakkam	100
	23/03/2018	Road and Temple Cleaning	200
	24/03/2018	Tree plantation	200

2016-2017	26/08/2016	Tree plantation	50
	07/10/2016	Tree plantation	50
	31/10/2016	National Unity day celebration	200
	14/02/2016	Helping to relief from Vardha cyclone damages	200
	23/02/2017	Tree plantation	200

Rotaract Club :

The Rotaract Club of Institution undertakes projects like blood donation camps, visit to orphanages and old age homes. Thus the Rotaract Club fulfils its motto of “Service to Humanity is Service to God.” This sustainable development and the environment protection have become the cry of the hour. The VISTAS has taken a number of steps to protect the environment to assure sustainable development.

- The volunteers have effectively campaign for the Conservation of Biodiversity, Street cleaning, Temple cleaning have been taken frequent dates to maintain cleanliness in the area.
- Environment protection awareness campaign has also been done by the volunteers of VISTAS through short films and pamphlets.
- Short-films on Cancer and its awareness have been screened in and around Pallavaram.
- Planting of trees play a prominent role in maintenance of environment. A minimum of 300 to 500 trees have been planted in the vicinity of VISTAS over the five years.

	<p>Unnat Bharat Abhiyan Programme :</p> <p>National Service Scheme (NSS), both faculty and students of VISTAS are conducting Medical Camp, Dental Camp, Eye Camp, Aids Awareness Programme, Voters Awareness Programme and Computer Awareness Programme at the following adopted villages of St. Thomas Mount, Kancheepuram District.</p> <table border="0" style="margin-left: 40px;"> <tr> <td style="vertical-align: middle;"> <ul style="list-style-type: none"> 1) Kovilambakkam 2) Pozhichallur 3) Nanmangalam 4) Vengaivasal 5) Thiruneermalai </td> <td style="font-size: 3em; vertical-align: middle; padding: 0 10px;">}</td> <td style="vertical-align: middle;"> <p>As per the approval of the District Collector vide letter No.RC.No.1367/2018/A12 dated 15.05.2018</p> </td> </tr> </table> <p>Self-Help Group :</p> <p>Every year VISTAS has arranged one day market for Self-Help Group products and a training on Marketing, Finance and new product development where given to the Self-Help Groups. They were trained in marketing skill and helped in mobilizing funds through banks. Nearly, 150 self-help groups participated in every such event.</p>	<ul style="list-style-type: none"> 1) Kovilambakkam 2) Pozhichallur 3) Nanmangalam 4) Vengaivasal 5) Thiruneermalai 	}	<p>As per the approval of the District Collector vide letter No.RC.No.1367/2018/A12 dated 15.05.2018</p>									
<ul style="list-style-type: none"> 1) Kovilambakkam 2) Pozhichallur 3) Nanmangalam 4) Vengaivasal 5) Thiruneermalai 	}	<p>As per the approval of the District Collector vide letter No.RC.No.1367/2018/A12 dated 15.05.2018</p>											
3.	<p>Linkage of the students with the industry (Annexures 3 to 7) (please also provide number of students along with mode of engagement across Constituent Units / Faculties or Schools / Departments) as under:</p> <table border="0" style="margin-left: 40px;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Industry designed course </td> <td style="vertical-align: top; padding-left: 20px;"> <p>Details enclosed - ANNEXURE - 3</p> </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Industry offered course </td> <td style="vertical-align: top; padding-left: 20px;"> <p>Details enclosed - ANNEXURE - 4</p> </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Industry Internship </td> <td style="vertical-align: top; padding-left: 20px;"> <p>Details enclosed - ANNEXURE - 5</p> </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Industry Sponsored Thesis </td> <td style="vertical-align: top; padding-left: 20px;"> <p>Details enclosed - ANNEXURE - 6</p> </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Industry Visits </td> <td style="vertical-align: top; padding-left: 20px;"> <p>Details enclosed - ANNEXURE - 7</p> </td> </tr> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Others, please specify </td> <td></td> </tr> </table>	<ul style="list-style-type: none"> • Industry designed course 	<p>Details enclosed - ANNEXURE - 3</p>	<ul style="list-style-type: none"> • Industry offered course 	<p>Details enclosed - ANNEXURE - 4</p>	<ul style="list-style-type: none"> • Industry Internship 	<p>Details enclosed - ANNEXURE - 5</p>	<ul style="list-style-type: none"> • Industry Sponsored Thesis 	<p>Details enclosed - ANNEXURE - 6</p>	<ul style="list-style-type: none"> • Industry Visits 	<p>Details enclosed - ANNEXURE - 7</p>	<ul style="list-style-type: none"> • Others, please specify 	
<ul style="list-style-type: none"> • Industry designed course 	<p>Details enclosed - ANNEXURE - 3</p>												
<ul style="list-style-type: none"> • Industry offered course 	<p>Details enclosed - ANNEXURE - 4</p>												
<ul style="list-style-type: none"> • Industry Internship 	<p>Details enclosed - ANNEXURE - 5</p>												
<ul style="list-style-type: none"> • Industry Sponsored Thesis 	<p>Details enclosed - ANNEXURE - 6</p>												
<ul style="list-style-type: none"> • Industry Visits 	<p>Details enclosed - ANNEXURE - 7</p>												
<ul style="list-style-type: none"> • Others, please specify 													

4. Details of the training of students in essential professional skills such as:-

- (i) Team-work
- (ii) Communication skills
- (iii) Leadership skills
- (iv) Time-management skills,
- (v) Soft skills
- (vi) Others

Please provide details of the activities along with the number of students involved and mode of engagement as below:

- **Credited Course Work**

Credited Course work	Number of Students		
	2016-17	2017-18	2018-19
Personality Development, Communication Skill, NSS, Value Education, Basic Life Skills, French, German, GST, Yoga, Industrial Safety, Environmental Studies, Professional Skills	3296	3706	4162
Internet Basics, Front office Operations Tourism Management, Introduction to Nano Science and Nano, Environmental Microbiology, Applications in Bioinformatics, Natural resources and Management, Film Appreciation, Communication Skills, Food and Beverages, Food Adulteration, Mushroom Cultivation (B.Pharm)	201	288	297

- **Audited self-study**

Audited self-study	Number of Students		
	2016-17	2017-18	2018-19
Effective business Communication, Business & Academic on writing, Management of Change in Organization, Sales & Distribution Management, Financial Products & Services,	129	137	156
NPTEL	-	323	396
SWAYAM	33	91	475

- **Training & Workshops**

Training & Workshops	Number of Students		
	2016-17	2017-18	2018-19
Face Academy Enrich & Excel	189	151	160
Placement Training	814	954	1083
Bioneemtec India Pvt Ltd - Training	40	40	44
R Programming for Text Mining	-	-	52
Ramco Design Contest, World Water Day 2017 and 2018, Workshop by OSDAG, IIT Bombay, Workshop on Staad Pro by Geeks Lab, New Delhi, Hands on training cum workshop on BIM by DeNovo Software Solutions, Workshop on Construction project management	312	192	197
Technical Training Programs organized by CSE.	1730	880	2149
Technical Training Programs organized by Pharmacy	200	222	264
Workshop & Inplant Training	45	100	120
Clinical Training Programs organized by Physiotherapy	102	118	213

- **Student Clubs**

Student Clubs	Number of Students		
	2016-17	2017-18	2018-19
Entrepreneurship Development Club	189	151	160
Bioradars Club	65	94	111
Technogene Club	200	220	180
Data Mining Club, Web Designing Club	12	22	32
Pharmacology Club	35	68	72
Medicinal Garden Alliance	12	16	29

Women in Chemical Sciences Club	11	15	21
Atoms Club	13	17	20-
Stem Cell Club	11	16	19
Pharmaceutico Fraternity	11	12	13
Alpha, Delta, Zeta Club	12	17	19
Health Club	108	102	100
Team Brastvo/BAJA Motor Sports ROTARY/	18	20	24
Biochem Club - VISTAS	160	146	180
Open source Club, Sports	134	146	164
Mechanical Engineering Association, ASME	346	226	245
JOURNAL CLUBS	24	35	50

- **Student led academic interventions**

Student led academic interventions	Number of Students		
	2016-17	2017-18	2018-19
Class Level Committee Class Representatives	275	299	307
BOS Student Member	42	43	49
Anti-Ragging Committee	2	2	3
Department student coordinator	42	43	49
Bioradards club coordinator	6	6	6
Building Committee	19	21	25
Academic Club (Pharmacology Club) Executive Committee Members (ECM)	17	17	25
Biochem VISTAS Club Member	23	41	56

- Others, please specify

5. **Action taken to inculcate spirit of innovation / entrepreneurship and critical thinking among the students and promote avenues for display of these talents with relevant details under the following options:**

- **Extramurally funded TBIs / EDI / Innovation Cell**

VISTAS Incubation Center

VISTAS has established an Incubation centre. The aim of the centre is to focus on innovation, incubation, entrepreneurship, Start-Ups and commercial success. The centre is facilitated with unlimited internet connectivity, product development consultancy, IP rights & licensing methodology. An exclusive start up Student lounge at 540 sqft and Skill development centre at 1400 sqft was established. An “ATM Autocontroller” machine innovated by the Incubation center has been installed in ATMs of SBI & Indian Bank and extended to save energy in VISTAS campus also. A “cyber security” product development and commercialization has been initiated. Similar activities in developing products for IoT in health care, IoT for Road safety and Agriculture are in pipeline. We have a strong IPR Cell and it has organized several seminars and workshops for the faculty and students to sensitize them to go for patenting of their innovations. The procedures for patenting have been explained to the participants by the experts and IPR attorneys. This has resulted in the filing of 43 patents of which one has been granted. As a part of research VISTAS has 830 Part Time and Full time Research Scholars and Nearly 216 PhD and 316 M Phil completed their research in the past 5 years. Board of Research meets periodically and monitors the process of Research efficiently. We have a strong IPR Cell and it has organized several seminars and workshops for the faculty and students to sensitize them to go for patenting of their innovations. The procedures for patenting have been explained to the participants by the experts and IPR attorneys. This has resulted in the filing of 43 patents of which two has been granted. The names of the start-ups initiated by the students of the VISTAS for the last three years are Chlorophyllin as an anticancer agent from *Morindacitrifolia*, Mobile Controlled Combat Vehicle, Apparatus and method for Welding, Tangential suspension system for Two wheeler Automobiles, Self-Activating Aircraft Disaster Recovery System and Air “O” Spring suspension system etc. Around 600 Entrepreneur ship courses are available in the curriculum.

The following are the startup company doing incubation activities.

S. No	Name of the Start Up	Nature of the Start Up
1	Arcomm Tech Solutions Pvt. Ltd (Faculty Start Up)*	Automations/Child Skills Development
2	Arann Cyber Tek Pvt. Ltd**	Cyber Security and Data Analytics
3	IndiaBizForSale	B2B Platform Intelligence
4	Eezeelyf Devices Pvt. Ltd	Internet of Things
5	SynapsticsEHR Pvt. Ltd***	Artificial Intelligence
6	OMS Infotech Pvt. Ltd	Cloud Computing & App Development
7	K Security	Internet of Things
8	Latentech Pvt. Ltd	Engineering Design
9	Indira Constructions	Civil Design
10	Himesh Reddivari Technologies Pvt. Ltd	Automations
11	PMC Global Systems	Augmented & Virtual Reality
12	Iyris Technologies	App Development

Entrepreneurship Development Cell

The objective of the EDI is to make the students involve in entrepreneurship and learn its significance by various important programmes and workshops, guests and eminent personalities' lectures on creating first generation entrepreneurs. Developing entrepreneurship based on the current market scenario requirement so as to generate self-sustaining employment. Guiding the Government of India agencies / banks/research institutions - supports - PMEGP (Prime Minister Employment Generation Programme), CGTMS (Credit Guarantee Trust Micro small medium Enterprises) in line with Government of India policies. The ED cell provides mentoring and coaching and skill development on request and also provide project guidance. The ED cell also coaches the students about the dilemmas that plague start-ups and how to overcome them. The ED cell also equips against challenges of entrepreneurial journey. The aim of the ED cell is to develop the entrepreneurship ability of the students through self-analysis this thus leads to shaping of creative ideas. It also provides practical training to the students by conducting market surveys to estimate demand and coming up with price strategies for a product. The ED faculty is available with rich experience in the entrepreneurial journey, academic and research to mentor the budding entrepreneurs.

Innovation Cell and activities

VISTAS is one among the pioneering institutes supporting innovation through research in the multidisciplinary approach. VISTAS have created an appropriate ecosystem for Research and Innovation by establishing Center for advanced Research and Development (CARD), Central Instrumentation Facility and Incubation Center. The University can boast of several innovations both by the faculty and students which has led to filing of 43 patents and 8 ToTs. PG students are oriented to research through participation in minor and major projects and Innovation Club. The Schools also have doctoral programs in which we admit full time research scholars for M.Phil., and Ph.D who are involved in quality innovative research. Innovation cell is established in VISTAS in which both faculty and students are taking part regularly. Scholarships are also provided for full time research Scholars University gives a great deal of academic freedom enabling the introduction of new and innovative courses. Our UG/PG /Research programmes provide an interdisciplinary approach to viewing issues and finding solutions. The students are exposed to various real life settings through offering courses that enhance the creative thinking of students and by inviting various experts (researchers) to interact with our students. The university has introduced several innovative programmes / courses like Bio – Computing, Business Analytics, MBA in Logistics & Supply Chain Management, Logistics & Shipping Management, Pharm.D courses and courses on Cloud Computing and Big Data Analysis to name a few. Change in the Pedagogy of teaching, replacing chalk & talk method by ICT enabled teaching, Compulsory communication skills training for all students, Projects for all post graduate students, Semester pattern and CBCS in all courses, Smart Class rooms equipped with Wi-Fi internet, Strengthening of research and journal to disseminate research findings are some innovative practices followed currently. The University has established CARD with a senior academic with a lot of expertise in research and administration, under which an active Innovation Club and Incubation Centre are functioning, which promotes original quality and innovative research. Various committees have also been formed to achieve smooth functioning of the university. The syllabi have been revised by our Board of Studies and updated as and when required to fulfil the industrial needs. Field visits, internships, industrial interface have been introduced wherever required to provide the competencies demanded in the competitive employment market and steps have been taken to improve the teaching learning process to the global level. The campus is green, serene and pleasant. Steps have also been taken to conserve energy and reduce carbon foot print by installing three windmills and solar street lamps. The University has been adhering to Innovative practices such as Herbal Garden, Tobacco Free Campus, Green Campus, Rain Water harvesting, Renewable energy and carbon neutrality. On the whole, the university is committed to excellence in every activity, intelligent planning of each activity and ensuring focused effect on each of them for attaining excellence. **(Refer ANNEXURE -8)**

Institution's Innovation Council (IIC)

A dedicated IIC Council was established at vistas in 2018-19 under MHRD IIC Cell. Through MHRD Innovation Cell the following activities are carried out during 2018-19

1. Guest Lecture on Innovation
2. Three day Workshop on IPR Patents
3. Workshop on Entrepreneurship and Innovation
4. Internship for Engineering students
5. Science Exhibition
6. Social Innovation
7. Product Design Demo

More than **1250 students and 200 staff** are working in the VISTAS IIC Cell.

- **Internally funded Entrepreneurship / Innovation Cell**

Entrepreneurship :

Rupees 250000/- annual budget is allotted by the Management for EDP annual training programme every year. And implemented successfully year after year.

- **Credit course work on Entrepreneurship / Innovation Audited self-study courses**

The Two credit course of Entrepreneurship Development / Entrepreneurship in Practice are offered the following programmes under CBCS mode.

1. M.B.A., (All specializations)
2. B.Com., Accounts & Finance
3. B.Com., General
4. B.Com., Computer Applications
5. B.B.A.,
6. B.A.,
7. B.Sc., (various disciplines)

- **Financial Support**

- **Internally funded ED activities:**

Rupees 250000/- annual budget is allotted by the management for EDP annual training programme every year. And implemented successfully year after year.

- **External funding ED activities:**

NSIC (National Small Industries Corporation) Technical Service Centre, Ministry of Industry, Government of India sponsored Rupees 203250/- for conducting the entrepreneurship orientation programme date 11/12/2016, 17/02/2016, 26/02/16 Cheque number 851089/21/3/16, 157119/11/3/16, 851135/30/03/16.

Other than this, EDI, Government of Tamilnadu, NSIC-TSC Ministry of MSME Government of India, KVIC (Khadi and village Industries Commission) Ministry of MSME Government of India, conducted an entrepreneurship development programme in association with VISTAS at our campus in different years, from 2010 onwards.

- **Other support system to nurture innovation**

Details enclosed – ANNEXURE – 8

6. Courses offered across Constituent Units / Faculties or Schools / Departments

S.No.	Dept.	Course	Professional or general	Approval of statutory council(s)	Approval of UGC: Yes / No / Not-applicable	Student intake	Actual no of student enrolled
Details enclosed – ANNEXURE - 9							

7. Total number of teachers across Constituent Units / Faculties or Schools / Departments.

Name of the Department	Faculty required as per the norms of UGC / concerned Statutory Council			Faculty Actually Available		
	Professor	Associate Professor	Assistant Professor	Professor	Associate Professor	Assistant Professor
1. Biochemistry	1	2	7	3	4	3
2. Microbiology	1	2	6	2	1	6
3. Biotechnology	2	4	6	2	5	5
4. Bioinformatics	1	2	3	1	-	5
5. Chemistry	3	6	13	3	4	15
6. Physics	1	2	4	-	1	6
7. Mathematics	2	4	10	4	-	12
8. Business Administration	3	6	11	3	1	16
9. Commerce	6	12	30	9	12	27
10. Economics	1	2	4	3	-	4
11. Management Studies	3	6	14	12	6	5
12. Computer Applications	2	4	5	6	1	4
13. Computer Science	3	6	12	1	8	12
14. Information Technology	4	8	24	4	7	25
15. Visual Communication	2	4	11	-	2	15
16. Hotel & Catering Management	2	4	10	-	-	16
17. Pharmaceutics	2	4	7	3	4	6
18. Pharmacology	1	2	5	1	3	4
19. Pharmaceutical Chemistry & Analysis	2	4	10	4	4	8
20. Pharmacognosy	1	2	3	2	2	2
21. Pharmacy Practice	2	4	5	2-	2	7
22. Physiotherapy	3	6	17	2	1	23

23.	Computer Science Engg.	5	10	25	1	3	36
24.	Electronics & Communication Engg.	2	4	10	1	4	11
25.	Electrical & Electronics Engg.	2	4	6	1	1	10
26.	Mechanical Engineering	4	8	17	6	3	20
27.	Automobile Engineering	1	2	6	1	-	8
28.	Civil Engineering	2	4	12	1	2	15
29.	B.Tech., Biotechnology	1	2	5	1	1	6
30.	Bio-Medical Engineering	1	2	6	1	1	7
31.	Marine Engineering	2	4	11	1	2	15
32.	Nautical Science	2	4	10	1	2	14
33.	Ocean Engineering	2	4	6	1	1	10
34.	Law	3	6	15	1	2	21
35.	Education	3	6	14	3	5	15
36.	English	4	8	24	3	1	32
37.	Music & Fine Arts	1	1	-	1	-	1
38.	Aviation	1	2	1	-	-	4
39.	Tamil				3	4	13
40.	Hindi				-	1	1
41.	French				-	-	2
42.	CARD				-	2	1
Total		84	167	385	92	103	468

8. Constituent Units / Faculties or Schools / Department-wise teacher student ratio

S. No	Department	PG	UG
1	Biochemistry	1: 8	1:25
2	Microbiology	1: 9	1:25
3	Biotechnology	1: 9	1:25
4	Bioinformatics	1: 8	1:25
5	Chemistry	1: 9	1:20
6	Physics	-	1:22
7	Mathematics	-	1:20
8	Business Administration	-	1:29
9	Commerce	-	1:29
10	Economics	-	1:25
11	Management Studies	1:20	-
12	Computer Applications	1:18	1:20
13	Computer Science	1: 9	1:22
14	Information Technology	1:10	1:22
15	Visual Communication	1:10	1:25
16	Hotel & Catering Management	1 : 9	1:15
17	Pharmaceutics	1:12	1:15
18	Pharmacology	-	1:15
19	Pharmaceutical Chemistry & Analysis	1:12	1:15
20	Pharmacognosy	-	1:15

21	Pharmacy Practice	1:12	1:15
22	Physiotherapy	1: 6	1:25
23	Computer Science Engg.	1:10	1:18
24	Electronics & Communication Engg.	1 : 8	1:18
25	Electrical & Electronics Engg.	1: 8	1:18
26	Mechanical Engineering	1:12	1:19
27	Automobile Engineering	-	1:18
28	Civil Engineering	1:12	1:19
29	Biomedical Engineering	-	1:12
30	B.Tech., Biotechnology	-	1:17
31	Marine Engineering	-	1:16
32	Nautical Science	-	1:16
33	Petroleum Engineering	-	1:17
34	Naval Architecture & Offshore Engg.	-	1:17
35	Law	-	1:20
36	Education	-	1:12
37	English	1:10	1:30
38	Music & Fine Arts	1:10	1:25
39	Aviation	-	1:25

9. Details of the induction programmes conducted for students and number of students involved:

- Whether following Statutory Body recommended induction programmes? If so, details

Yes

Organized students' Induction Programme on universal human values in the year 2018-19 as per the instruction of AICTE & **Self designed induction programme** conducted for the academic year 2016-17 & 2017-18

S.No	Year	Number of students involved
1.	2016-17	725
2.	2017-18	832
3.	2018-19	905

- Whether following Self-designed induction programmes? If so, details

Details enclosed – ANNEXURE - 10

10.	<p>Whether Learning-outcome based curriculum framework (LOCF) Adopted? If yes, details.</p> <p>Yes. VISTAS adopted Learning-outcome based curriculum framework (LOCF). Details are as follows.</p> <p>UGC – UGC LOCF AICTE – AICTE Model Curriculum Framework PCI – Pharmaceutical Council of India Regulations & Syllabus BCI – Bar Council of India Education Rules NCTE – National Curriculum Frame Work for Teacher Education DGS - Directorate General of Shipping</p> <p style="text-align: right;">Details Enclosed – ANNEXURE - 11</p>
11.	<p>Whether curriculum is revised at regular intervals? If yes, period of curriculum revision</p> <p>Yes, It is a continuous process. Last revision for many courses took place during 2018-2019</p> <p style="text-align: right;">Details enclosed. – ANNEXURE - 12</p>
12.	<p>Information Communication Technology (ICT) being used by the Deemed to be University for effective teaching learning.</p> <p>ICT Infrastructure & Adoption</p> <ul style="list-style-type: none"> • Class rooms with ICT facilities like LCD, Wi-Fi, etc. <p>Each department is having ICT facilities like, Laptops, Desktops and LCD Projectors, Internet facilities, Wi-Fi etc., 180 Smart Class Rooms is available out of 325 class rooms.</p> <ul style="list-style-type: none"> • Internet Bandwidth – LAN & Wi-Fi details <p>BSNL -1 Gbps Connectivity with Unlimited data ACT Fibernet (200 Mbps speed with 5TB Data access) Dynamic Host Configuration</p> <p>Wi-Fi Facility : Dlink, CISCO, Netgear, Aruba , Belkin , Ruckus with 100% Secure Wi-Fi Coverage</p> <p style="text-align: right;">Details Enclosed – ANNEXURE - 13</p>

- Studio or other Lecture Capture Systems for Course recording

Yes, Available – **Details enclosed – ANNEXURE - 14**

- Online course delivery module

Yes, Available – **Details enclosed – ANNEXURE - 15**

- Number of online courses developed - SWAYAM or Other MOOC portals

The courses on SWAYAM are produced and delivered by faculties from AICTE for self-paced and international courses, NPTEL for engineering, UGC for non-technical post-graduation education, CEC for under-graduate education, NCERT & NIOS for school education, IGNOU for out of the school students, IIMB for management studies. However, most of the courses are handled by academicians who cater to advanced learners. Since VISTAS caters mainly to the students from the lower and middle strata of the society, most of the students find the video lectures of SWAYAM to be too difficult to follow. To overcome this issue, the IQAC of our Institution, proposed the developing of e-content by our own experienced faculty members. The move was welcomed by all the stakeholders. The Audio-Video capturing module was setup by M/S Edutech. The AV Capturing module captures the lecture of the faculty handling the class. Later, the content is edited and the module is stored in the MOODLE platform. The experienced faculty members of different department have delivered lectures which can be understood by our students and the same has been stored in the moodle platform. The students thereby can access the lectures anywhere anytime in an understandable way. The feedback on the courses developed has a positive feedback and impact.

Details enclosed – ANNEXURE - 16

- Faculty: Computer Ratio : 1 : 1
- Student: Computer Ratio : 5 : 1

13. Whether CBCS adopted? If yes, details.

YES, as per UGC norms

Choice Based Credit System (CBCS)

As per UGC guidelines, Choice Based Credit System (CBCS) has been introduced in the VISTAS from the academic year 2015-2016.

The main feature of CBCS is to make education, student centric rather than system centric or teacher centric.

The CBCS provides the students the flexibility in Education system, so that they can choose, inter-disciplinary, intra-disciplinary and skill based courses of their interest.

Core Courses, Discipline Specific Electives (DSC), Generic Electives(GE), Ability Enhancement Compulsory Courses(AECC) (English, Environmental science) and Skill Enhancement Courses(SEC) form part of curriculum. SEC courses are value based courses and/or skill based and are aimed at providing hands-on-training, competencies, skills etc.

Project work / dissertation is a special course involving application of knowledge in solving/analyzing/exploring a real life situation/difficult problem.

Each course is allotted credits based on number of hours assigned for teaching/tutorial/practical etc. One credit is allotted for one theory period of one hour per week or one tutorial period of one hour per week or one practical period of two hour per week over a semester. Upper limit of credits allotted for a course is six.

Total number of hours for teaching, tutorial and practical will be in the range of 24 to 30 hours per week and total number of credits will be in the range of 22 to 25 per semester.

The system not only offers opportunities and avenues to learn core courses but also to explore the additional avenues of learning beyond the core courses for holistic development of an individual.

Curriculum design of UG programme in Arts/Commerce/Science is such that nearly 50% of total courses will be Core Courses. Nearly 25% of total courses will be the sum of Discipline Specific Electives and Generic Electives. Nearly 25% of total courses will be the sum of Ability Enhancement Compulsory Courses and Skill Enhancement Courses. The total Credits for UG courses range from 130-150 and for PG courses is 90 Credits. **The guidelines of UGC for Curriculum design of all UG and PG programmes are strictly followed.**

Curriculum design of B.E/ B.Tech Programme , as listed below, follows the guidelines of AICTE.

- 1) Humanities and Social Sciences (HS) 5-10% of total courses with 10-20 credits
- 2) Basic Sciences (BS) 15-20% of total courses with 30-40 credits
(Mathematics, Physics, Chemistry)
- 3) Engineering Sciences (ES) 15-20% of total courses with 30-40 credits
(Basics of Civil Engg, Mechanical Engg, EEE, ECE, CSE)
- 4) Core courses 30-40% of total courses with 59-79 credits
- 5) Discipline Specific Electives 10-15% of total courses with 20-30 credits
- 6) Generic Electives 5-10% of total courses with 10-20 credits
- 7) Internship & Project work with 20-30 credits

Total credits: 192

Similarly Curriculum design of MCA & MBA Programmes takes into account the guidelines of AICTE.

Curriculum design of ME/MTech/MSc Programmes consists of core courses as nearly 60% of total courses, elective courses as nearly 20% of total courses and project work with 20 credits.

Evaluation is done following grade system and credit system adopting 10 point scale. This will benefit the students to move across both within India and across the countries.

The performances of students are evaluated by both internal assessment of 40% and external assessment 60% at the end semester examination. A well-structured criterion is followed for the award of formative assessment viz. Continuous Internal Assessment tests, Field visits / Internships for (PG Courses), class seminars / assignments, marks in the model examinations, attendance, aptitude of the students and faculty assessment form part of formative assessment. Grievance redressing mechanism is also in practice for internal assessment marks. The end semester answer papers are evaluated by external examiners and final results are published following the grading system adopting ten point scale. With the introduction of CBCS from 2015-16, students do have the salient features such as mobility across institutions within and across the country.

14.	<p>Details of the academic flexibility adopted for interdisciplinary learning</p> <p>Employability : The curriculum is designed to suit the needs of the various stake holders. The focus of the curriculum is on employability in Central and State Governments, public sector, private sector, corporate sector, major agro-based industries, insurance sector and its related agencies in the national sphere. Employment at international level is also a key focus area. Syllabi are revised based on recent advances in technology and are included in curriculum. The Curriculum emphasizes exposure in Communication Skill, Personality development, Soft Skill development, hands-on training in several laboratory modules which aids them in getting placed.</p> <p>Innovation : PG students are oriented to research through participation in minor and major projects and Innovation Club..</p> <p>The following have been incorporated to make the curriculum more innovative</p> <ul style="list-style-type: none"> • Choice Based Credit System widened to incorporate more choices within the programmes. • Programmes / Courses: registration of courses automated through Campus Management System. • Curriculum enriched through compulsory credits in Value Education, Personality Development programmes, Extension, Environment and aptitude training programmes. • Free electives are offered to students. A student is required to study a minimum of 3 subjects (9 credits) offered by schools other than the school in which he/she enrolled. • Every department has a curriculum development cell (CDC), in which Professors, Associate Professors and Assistant Professors (SG) are members. New syllabi are formed by respective subject teachers and discussed in CDC. • Every department has its own Board of Studies (BoS) which is a statutory body. • The curriculum development process is reviewed and monitored by curriculum development committee for the whole university. • The draft so prepared is sent to the members of Board of Studies well in advance. • The Board of studies meeting is convened by the Registrar to discuss and finalise the curriculum of the concerned department.
-----	--

	<ul style="list-style-type: none"> • The final curriculum is placed before the Academic Council • Finally it is placed before the Board of Management for approval. • The university has introduced several innovative programmes / courses like Bio – Computing, Business Analytics, MBA in Logistics & Supply Chain Management, Logistics & Shipping Management, Pharm.D courses and courses on Cloud Computing and Big Data Analysis to name a few. <p>Details of the academic flexibility and involvement of external experts in curricular designing</p> <p>Credit System used to provide maximum advantage to learners. (System of flexible Credit registration). A curriculum for enhancing social relevance is followed (Credits are given for NSS, NCC, NSO & Rural Development)</p> <p>Core / elective options : The curriculum in all the programmes comprises three components relating to core, elective, and practical courses along with research component in the final year (P.G). The core courses emphasize on fundamental aspects together with design methodologies and throw open avenues for applications. Students are offered elective courses in their own departments and also by other departments of study. In order to encourage interdisciplinary participation, it is mandatory for students to enroll at least for one elective course every semester outside their department. The students have the freedom to choose from a stream of elective courses. The list of elective courses is regularly updated.</p>
15.	<p>Details of Evaluation Reforms Whether UGC Report on Evaluation Reforms & other parameters adopted across the following: YES</p> <p>Objective, Structure and Procedural Guidelines</p> <ul style="list-style-type: none"> • Student Centric – UGC Procedural guidelines are strictly followed. <p>Question Paper Design</p> <ul style="list-style-type: none"> • Uniform Question Paper pattern is followed in line with UGC Guidelines for all UG & PG Courses of Arts, Science & Commerce • For Engineering and MBA as per AICTE guidelines • For Pharmacy as per the guidelines of Pharmacy Council of India. <p>Credit Transfer</p> <ul style="list-style-type: none"> • Credit transfer and mobility of students are adopted as per CBCS (Choice Based Credit System) guidelines. <p>Grading – Relative Absolute or other forms</p> <ul style="list-style-type: none"> • Absolute Grading System (10 points scale) is followed.

On – Demand Examination

- On Demand Examination is not in practice.
- However, for the final year students who have one or two arrear papers, a supplementary examination is conducted in the month of July to enable them to clear the arrear subjects and proceed for higher studies or employment opportunity.

Evaluation Procedure

- Evaluation is done totally (100%) by External Examiners to ensure unbiased valuation.

Security and Exam malpractice prevention

- In each examination hall, three different courses / programme assigned for writing the examination allowing only two students of different subjects in a bench.
- Bar coded and Optical Mark Recognition (OMR) enabled answer papers are used to conceal the identity of the students to the examiners.
- Flying squads and floor managers make surprise visit to the examination hall during the examination hours, besides strict vigilance by the hall invigilators.
- An Examination Disciplinary Committee enquires the students into the alleged malpractice and its decision is final and implemented.

Technology Adoption

- Promotion of students
- Subject allotment for all the programme
- Generation of examination application form
- Fee details
- Hall ticket printing
- Tabulation of marks (Internal and External)
- Processing and publication of results
- All these processes are done through ERP and EAS.

Option for slow and fast learners

- Special attention is given to slow learners by conducting remedial classes clearing their doubts then and there and providing the help / information sought by them.
- They are also guided how to prepare for the examination.
- The fast learners are provided with skill based coaching classes and are trained for employability.

Innovations in assessment design, evaluation and multi- modal options for learners

- The answer papers for the examination held from Monday to Friday are valued on the following Saturdays and Sundays every week, after providing dummy numbers to each answer paper.

Evaluation – objective alignment: Programme / Course

- To avoid erratic valuation and to ensure perfect valuation, each examiner is allotted only 30 answer papers per session to have sufficient time for a thorough valuation.
- Results are published within 23 days from the last date of examinations.

16. Number of the pass out students appearing for (last three years):-

S.No.	Exam	2016-17		2017-18		2018-19	
		Appeared	Passed	Appeared	Passed	Appeared	Passed
1.	GATE	11	4	16	3	36	5
2.	CAT	64	8	66	11	84	13
3.	UGC-NET	3	1	3	-	5	-
4.	Others(GPAT, TNPSC, UPSC, IELTS, TOFEL, GRE, Postal Exam, Defence Exam, TET, CTET, TRB)	20	12	77	10	117	9

17. Student Progression
(tracking of the student progress after completion of course)
Option of Student progress: Online/Off-line with details

Student Progression details can be viewed in :
<http://velsuniv.ac.in/placement-milestone.asp>

- 80 % of the students get through the programmes in minimum period of time
- 65 % of the registered Students get campus placement
- 10 % of the students pursue higher studies
- 5% become Entrepreneurs
- Nearly 15 professional associations, 8 student chapters, technical clubs and international collaborations

18.	<p>Induction courses organized for teachers during the last three years</p> <ul style="list-style-type: none"> • Whether Statutory Body recommended induction programmes? If so, details • Whether, other induction programme for teachers organized? If so, details: Course name, duration, Constituent Unit/Faculty or Schools or Depts. Number of beneficiaries <p style="text-align: right;">Details enclosed - ANNEXURE - 17</p>
19.	<p>Whether Induction course includes pedagogical aspects?</p> <p>Yes</p> <p>Faculty members are the strength of VISTAS who teach, train, equip and mentor the students so that they acquire knowledge and skills. The teachers continually upgrade themselves on their subject by attending refresher courses and training programs. IQAC in the year 2016, reviewed the teaching learning process and understood the importance of integrating technology into teaching, learning, and research. Enlightening the faculty members with the available tools and technological developments to enhance the pedagogical skills of the teachers was important. Hence, a 3 day FDP was organized by IQAC focusing mainly on developing the teachers to understand the various dimensions involved in teaching and learning. 25 experts from Industries and eminent Institutions like IITM handled various parallel sessions like Psychological resources for effective teaching, Counseling and Guidance for adolescents, Understanding Students and Ourselves for effective Teaching – Learning process, Finding Fulfillment in Education & Life, Creating Self Confidence, Joy of teaching, Towards Academic Excellence, Preparing Lecture Materials, Effective Way of Teaching Computer Courses, etc. The feedback received was exceptional and so IQAC continued to conduct the FDP during subsequent years also. Topics of these FDP's were chosen based on the outcomes expected and based on the inputs received. Topics like Active Learning, New Paradigms in Education, Enhancing Students Learning Skills Effectively, Achieving Academic Excellence and our response as teacher, Cultivating Innovation in Students were addressed which helped the teachers in teaching learning process.</p>

20.	<p>Refresher courses organized during the last three years</p> <ul style="list-style-type: none"> • Whether Statutory Body recommended refresher programmes? If so, details • Whether, other refresher programme for teachers organized? If so, details <p>Course name, duration, Constituent Unit/Faculty or Schools or Depts. Number of beneficiaries</p> <p style="text-align: right;">Details enclosed - ANNEXURE - 18</p>																				
21.	<p>NIRF participation and ranking during the last three years</p> <table border="1" data-bbox="268 640 1422 831"> <thead> <tr> <th>Discipline</th> <th>2017</th> <th>2018</th> <th>2019</th> </tr> </thead> <tbody> <tr> <td>Overall</td> <td>-</td> <td>-</td> <td>Band 151-200</td> </tr> <tr> <td>Pharmacy</td> <td>Band 51-75</td> <td>43</td> <td>52</td> </tr> <tr> <td>Management</td> <td>Band 51-75</td> <td>-</td> <td>-</td> </tr> <tr> <td>Engineering</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Discipline	2017	2018	2019	Overall	-	-	Band 151-200	Pharmacy	Band 51-75	43	52	Management	Band 51-75	-	-	Engineering	-	-	-
Discipline	2017	2018	2019																		
Overall	-	-	Band 151-200																		
Pharmacy	Band 51-75	43	52																		
Management	Band 51-75	-	-																		
Engineering	-	-	-																		
22.	<p>Admission Process (whether national level merit based admission process has been adopted?)</p> <ul style="list-style-type: none"> • Adopted national competitive exams like JEE, GATE, NEET, etc <p>Yes</p> <ul style="list-style-type: none"> • If own-entrance exams, please specify mode of selection in details <p style="text-align: right;">Details Enclosed – ANNEXURE - 19</p> <ul style="list-style-type: none"> • Whether eligibility criteria for admissions as prescribed by Statutory Bodies is fully followed during admission? <p>Yes</p> <p style="text-align: right;">Details Enclosed – ANNEXURE - 20</p>																				
23.	<p>Implementation of measures for quality improvement as per the quality mandate of UGC (available on the UGC website https://www.ugc.ac.in/pdfnews/9470862_letter-to-VCs-reg-Quality-Mandate.pdf)</p> <ul style="list-style-type: none"> • Compliance to UGC's 10-point Quality Mandate with details <p style="text-align: right;">Details Enclosed – ANNEXURE - 21</p> <ul style="list-style-type: none"> • IQAC meeting details – Last 3 Meetings <p>The last three IQAC Meetings were held on 28.05.2018, 30.11.2018 & 26.03.2019</p> <p>The IQAC Meeting details can be found in our website</p> <p>http://www.velsuniv.ac.in/internal-quality-assurance-cell.asp</p>																				

24.	Whether approval (wherever necessary) of UGC/concerned Statutory Council(s) has been taken to introduce new courses? Details with Statutory Body Name, Approval notification & intake				
	Yes				
	<u>2019-2020</u>				
	S.No.	Name of the Course	UGC / Statutory Councils	Approval notification	Intake
	1.	B.Sc., Game Designing	UGC	Letter No.1-3/2018(CPP-I/DU) dated 23.08.2019	60
	2.	B.Sc., Media Arts	UGC		60
	3.	B.Sc., Visual Arts	UGC		60
	4.	B.Sc., Digital Design & Game Arts	UGC		60
	5.	M.Sc., Visual Communication	UGC		25
	6.	BCA Cloud Technology & Information Security	UGC		120
	7.	BCA Data Science	UGC		120
	8.	LL.M.	UGC		60
	9	BBA. LL.B., (Hons.)	Bar Council of India	Letter No.BCI:D:304/2019 (LE-F/Std.20/21.04.2019 Dated 21.05.2019	120
	10	B.Com., LL.B., (Hons.)	Bar Council of India	Letter No.BCI:D:707/2019 (LE-/Std.12/13.07.2019 Dated 01.08.2019	120

Certificate

This is to certify that all the information provided above is correct, to the best of my knowledge and belief. The Institution Deemed to be University shall adhere to the rules, regulations and guidelines of the UGC and Central Government issued from time to time.

Signed by the Registrar & Seal of Institute