

**CHARUTAR VIDYA MANDAL**  
*VALLABH VIDYANAGAR*

**ACADEMIC VISION DOCUMENT**  
**OF**  
**HIGHER EDUCATIONAL INSTITUTIONS**  
**FOR**  
**2014-2019**

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## Institute of Science & Technology for Advanced Studies and Research (ISTAR)

**(OO). Presently offered UG/PG courses with intake of students:**

**(OO-A). UG courses: ---**

**(OO-B). PG courses:**

- |  |           |
|--|-----------|
| • M.Sc. Industrial Chemistry (IC)                | intake 60 |
| • M.Sc. Polymer Science & Technology (PST)       | intake 60 |
| • M.Sc. Surface Coating Technology (SCT)         | intake 60 |
| • M.Sc. Organic Chemistry (OC)                   | intake 60 |
| • M.Sc. Instrumentation (INST)                   | intake 60 |
| • M.Sc. Environmental Science & Technology (EST) | intake 60 |
| • M.Sc. Information Technology (IT)              | intake 60 |
| • Master of Industrial Hygiene & Safety (MIHS)   | intake 15 |
| • Master of Valuation - Real Estate (RE)         | intake 30 |
| • Master of Valuation – Plant & Machinery (PM)   | intake 15 |
| • Master of Computer Application (MCA) Regular   | intake 60 |
| • Master of Computer Application (MCA) Lateral   | intake 60 |
| • P.G. Diploma Course in Geo-informatics         | intake 30 |

**1. New Academic Programs to be undertaken during the plan period:**

**1-A. Any additional seats to be created in current program/s**

Name of PG Course	Year in which additional seats are to be created				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
MIHS			5		

**1-B. New Degree programs:**

Name of UG/PG Course	Year in which it is to be implemented				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
M.Sc. Integrated Industrial Chemistry		√			
M.Sc. Space Technology OR Applied Physics			√		
M.Sc. Geo Informatics		√			
M.Sc. Mobile Technology & Application			√		
M.Sc. Web Technology		√			
M.Sc. Database Systems			√		

**1-C. New Diploma courses to be introduced:**

Name of Diploma Course	Year in which it is to be implemented				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
6 Months PG Diploma in Environmental Pollution Management & Safety			√	√	√
One Year PG Diploma in Geo Informatics*	√	√			

\* Program will be discontinued after starting of the regular M.Sc. in Geo-informatics

**1-D. New Certificate/Ad-on courses to be introduced for enrolled students of the Institute:**

Name of Certificate/ ad-on Course	Year in which it is to be implemented				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
2 Months - Programmable Logic Controllers	√				
2 Months – Embedded Systems	√				
2 Months - VLSI Design			√		
3 Months- Environmental Pollution and Disaster Management		√			
3 Months - Mobile Technology & Application*		√			
3 Months- Construction Safety		√			
3 Months-Safety in Medium and Small Scale Industries			√		
1 Month- ASP.NET with C#	√				
3 Months - (Oracle 11g) Database Administrator	√				
3 Months - Data Warehouse and Data Mining	√				
1 Month - Semantic Web		√			

\*Program will be discontinued after starting of the regular M.Sc. in Mobile Technology & Application

**1-E. Certificate courses (if any) to be introduced for school/ college drop outs**

Name of Certificate Course	Year in which it is to be implemented				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
3 Months in Sophisticated Analytical Instruments	√				
3 Months in Working Practices in R&D Laboratories		√			
1 Month in Web Designing	√				

**1-F. Justify the introduction of new programs:**

- Benefit of academic-industry relationship for training, research and placement
- EPDM and EPMS courses will provide knowledge and technical skills in Ecology, Environmental Science & Technology, Environmental Pollution, and Disaster Management Strategies
- Geo-informatics course is useful for e-governance data handling
- Mobile Technology course will help in placements of students in industries

**1-G. Budget requirement for introduction of New programs/addition of student intake:**

Head of Budget	Amount and the Year in which it will be required (Rs.)				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
<b>Infrastructure</b>					
IC,PST,OC,SCT		1,000,000	1,500,000	1,800,000	
INST		100,000			
IT	200,000	100,000			
MCA		200,000			
<b>Faculty</b>					
IC,PST,OC,SCT		240,000	480,000	720,000	
<b>Supporting Staff</b>					
IC,PST,OC,SCT		180,000	180,000	180,000	180,000
Geo-informatics	50,000	50,000	50,000	50,000	100,000
<b>Equipment</b>					
IC,PST,SCT,OC		200,000	200,000	200,000	200,000
INST	50,000	50,000	50,000	50,000	50,000
IT	300,000				
MIHS	250,000	50,000	100,000	100,000	150,000
MCA		600,000			
<b>Misc.</b>	20,000	70,000	85,000	85,000	85,000

**2. Innovation/s in the ongoing program/s:**

**2-A. Reframing the syllabi**

Name of Course	Year in which it is to be implemented				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
IC		√			
PST		√			√
SCT		√			
OC					
INST			√		
EST			√		
IT	√				√
MIHS		√			

**2-B. Academic Materials to be designed/produced/published:**

Name of Material	Year in which it is to be implemented (tick mark the year)				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
<b>Books</b>					
IT	√		√		√
EST	√				
MCA		√	√		
IT	√	√	√	√	√
RE & PM	√	√	√	√	√

**2-C. Budget requirement for creation of Academic Materials:**

Head of Budget	Amount and the Year in which it is will be required (Rs.)				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
<b>Books</b>					
IT	15,000	15,000			
<b>Models</b>					
INST		25000	25000		
MIHS	25000	25000	25000		
MCA		200000	200000		

**3. Research and development projections:**

**3-A. Research Projects to be proposed to various Funding Agencies:**

Funding agencies	Amount and the Year in which proposals will be made (Rs)				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
UGC, AICTE, DST, MoEF, GEC, GUJCOST, INDUSTRIES,	15,000,000	17,500,000	20,000,000	25,000,000	27,500,000

**3-B. Seminars/Conferences/Symposia proposed to be hosted by the Institute:**

Level of event	Number of events, Budget and the Year in which they is will be hosted (Rs)									
	2014-2015		2015-2016		2016-2017		2017-2018		2018-2019	
	No.	Rs	No.	Rs	No.	Rs	No.	Rs	No.	Rs
Local	7	140,000	7	160,000	6	150,000	6	170,000	6	200,000
State	5	175,000	4	175,000	6	210,000	5	210,000	4	210,000
National	1	300,000	2	400,000			3	500,000	2	175,000

**4. New extension programs:**

- Organize activities like Environmental Awareness, Medical Camp ,Blood Donation Camp
- Computer Literacy for High School children
- Distribution of Eco—friendly bags to local people in Anand and VVNagar
- Few more villages to be adopted for improvement of education and socio-economic condition, and ICT - awareness program
- Leadership training, character building, personality development courses

**5. New Extra-curricular activities:**

- To start Eco-Club (Nature Club) to create awareness of natural ecosystem (Forests, Deserts, Grasslands, Wetlands)
- Web Khoj Competition
- Industrial Project Consultancy

**6. New programs for enhancement of Students' performance:**

***6-A. Common programs for all the students:***

- Extra-coaching for failed students for improvement in academic results
- Industrial visit during summer vacation
- Create framework for NET/SLET exams

***6-B. Specific programs for SC/ST/OBC students:***

- Encouragement to socially minor students for financial assistance through Scholarships
- Web designing course for unemployed students
- Providing training for verbal communication and leadership management