

Department of Information Technology  
Faculty of Technology  
Dharmsinh Desai University, Nadiad

**List of Major Research Projects**

<b>Year of Award</b>	<b>Name of Faculty</b>	<b>Project Title</b>	<b>Duration</b>	<b>Status</b>	<b>Funding Agency</b>	<b>Funding Amount in Rs.</b>
2015 <sup>++</sup>	Prof. R. S. Chhajed (Co-PI)	Designing a Reflecting Light Microscope for 3D Imaging of Thick and Irregular Surface	3.5 Years	Completed	TSD Programme (DST)	80,75,000
2014 <sup>**</sup>	Prof. R. S. Chhajed (Co-PI)	Development of Embedded and FPGA Application Modules for space payloads	3 Years	Completed	PLANEX Scheme (PRL)	38,70,000

<sup>++</sup> In Collaboration with R&D Center (DDU), Pharmaceutics Dept. (Faculty of Pharmacy, DDU) and SSCSSN Center (DDU)

<sup>\*\*</sup> In Collaboration with R&D Center (DDU)

**List of Minor Research Projects**

<b>Year of Award</b>	<b>Name of Faculty</b>	<b>Project Title</b>	<b>Duration</b>	<b>Status</b>	<b>Funding Agency</b>	<b>Funding Amount in Rs.</b>
2011	Prof. (Dr.) M. M. Goswami (PI)	Network Device Monitoring and Checking System	1 Year	Completed	IEDC Scheme (DST)	1,00,000
2024-25	Prof. Zankhna V. Dabhi, Prof. Fate ma M. Vhora	Crop Production Prediction Based On SoilType	1 year	Ongoing	Dharmsinh Desai University	1,00,000
2024-25	Prof. Ravindra Vyas	Student Attendance using Voice	1 year	Ongoing	Dharmsinh Desai University	75,000

		Authentication in Classroom Environment				
2024-25	Prof.Sunil K.Vithlani, Prof. Sandeep R. Suthar	Empowering Farmers: A Smart Approach to Early Detection and Management of Crop Diseases	1 year	Ongoing	Dharmsinh Desai University	1,00,000
2024-25	Prof.Archarna N. Vyas, Prof. Tanvi M Dhruv	Identification of Humans in case of Natural calamity like flood.	1 year	Ongoing	Dharmsinh Desai University	1,00,000
2024-25	Prof.Deepak C Vegda	Smoky Vehicle detection in urban area using Machine learning Algorithms	1 year	Ongoing	Dharmsinh Desai University	95,000

#### Abbreviations:

- DST – Director of Science and Technology
- PRL – Physical Research Laboratory
- TSD – Technology and Systems Development Programme
- PLANEX- Planetary Science and Exploration Programme
- IEDC – Innovation and Entrepreneurship Development Cell

#### Consultancy Projects

Year of Award	Name of Faculty	Project Title	Duration	Status	Funding Agency	Funding Amount in Rs.
2022-23	Prof. Dr. V. K. Dabhi, Prof. Dr. H. B. Prajapati, Prof. Dr. M. M. Goswami	AI based solution to Stowage Problem for Shipping Industry	6 Months	Completed	Ridgeant Technologies	3,00,000

## Students Projects

Year of Award	Name of Faculty (Mentor)	Project Title	Duration	Status	Funding Agency	Funding Amount in Rs.
2021	Prof. Sunil K Vithlani	Automated Attendance System using Image Processing	1 Year	Completed	SSIP, Govt of Gujarat	33,850
2021	Prof. Sandeep Suthar	Smart Dustbin	1 Year	Completed	SSIP, Govt of Gujarat	22,000
2021	Prof. Sunil K Vithlani	Newborn Baby Monitoring System	1 Year	Completed	SSIP, Govt of Gujarat	25,000
2021	Prof. Ravindra A. Vyas	Advance Home Automation & Electricity Consumption Monitoring System	1 Year	Completed	SSIP, Govt of Gujarat	15,490
2021	Prof. Viral Shah	Automatic Timer Based Irrigation System	1 Year	Completed	SSIP, Govt of Gujarat	10,000
2022	Prof. Viral Shah	SMART Note:::Book	1 Year	Completed	SSIP, Govt of Gujarat	35,700
2022	Prof. Sandeep Suthar	GeoSafe	1 Year	Completed	SSIP, Govt of Gujarat	19,800
2023	Prof. Viral Shah	Automatic Traffic Management for Emergency Vehicles	1 Year	Completed	SSIP, Govt of Gujarat	17,200
2023	Dr. Harshad Prajapati	Fruits and vegetables quality checker	1 Year	Completed	SSIP, Govt of Gujarat	10,500

2024	Prof. Dr. Vipul K. Dabhi	Personalized government scheme recommendation system	1 Year	Completed	SSIP, Govt of Gujarat	20,000
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