



Gujarat Council of Vocational Training Gandhinagar



1. Name of Course:

Sensors

SC. U. No. for Skills Covered
(Please refer National Classification of Occupations -2004 as available on www.dget.mca.nic.in)

2. Engineering OR Non-engineering: Engineering

3. No. of students per batch: 20

4. Duration in Hours. : 40

5. Duration in Week : 1 (8 Hour/Day)

6. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Including Sessional)	Minimum Marks required for Passing (Including Sessional).	Sessional Marks if any.
Subject-1	Course Theory	10	50	20	
Subject-2	Course Practical	30	100	60	
Subject-3					
Subject-4					
Subject-5					

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	10 th Pass/ Diploma/ B. Tech.
Desirable:	Basic Knowledge (Technical / Non-Technical)

8. Minimum qualification for Trainer:



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2. Syllabus Committee Member:

Sr. No	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1.	Mr. Chetan Rajdev	Bosch Rexroth India Ltd, Sanand	DGM	BE (Mech.)	20	
2.	Nitin Sapre	Bosch Rexroth India Ltd, Sanand	Sr. Manager	M.Tech. PhD(Pursuing)	23	
3.	Dr. J.P.Patel	Ganpat University	HOD (Mkt.)	PhD	17	
4.	D.I.Patel	ITI, Mehsana	SI	Diploma	20	
5.	C.K.Chauhan	ITI, Mehsana	Principal	Diploma	20	



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10. Terminal Skills of trainee: (Should be well defined and having reference to NCO):

The trainee, after successful completion of training, will have following skills...

1. On successful completion of training one should be able to Design a system
Trouble shoot the system in Automation.
2. Technical Skill will help to get recruited in a reputed organization.
3. Using this technical expertise he can become an entrepreneur.
4. Technical Skill will help him her to get job across Globe.
5. Technical competence makes one confident & self-dependent.

(please attach separate sheet, if more space is required)

11. Approximate cost of Tools
/ Equipments / Machinery for
Starting one batch of the course:

Rupees
Rs. 0.66 Crore

Reference Year
2016

12. Area required for practical Workshop for one batch.

50 Sq. Meter

13. Minimum Power connection required

1 KW

14.1 No of items in Standard list of Equipment set:

1

14.1.1. Page NO from 5 to 5.



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Approved by GCVT in Governing Body meeting on : 18.02.2017

Syllabus implemented w.e.f. admission session : next session

Revision History :
1. Revision No..... Revision Date.
2. Revision No..... Revision Date.
3. Revision No..... Revision Date.



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Standard List of Equipment set
For Trade of Sensors

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1.	Sensors Equipment set TS-AS 101- IX-K	Equipment set	1 Nos.		1 Nos.



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Name of Syllabus: Sensors

Sector: Automation Sector

Terminal Competency: On successful completion of training one should be able to Design a system Trouble shoot the system in Automation.

Sr. No.	PRACTICAL	THEORY
1	<p>Practical of Sensors</p> <ul style="list-style-type: none">□ Introduction to Proximity Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Magnetic Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Inductive Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Capacitive Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application	<p>Contents of Sensors</p> <ul style="list-style-type: none">□ Introduction to Proximity Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Magnetic Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Inductive Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Capacitive Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application- Introduction to Strain Guage Sensor.<ul style="list-style-type: none">- Characterstics- Advantages & Disadvantages- Application



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Application	Application
Introduction to Ultrasonic Sensor.	Introduction to Photo Electric Sensor.
Characterstics	Types.
Advantages & Disadvantages	Characterstics
Application	Advantages & Disadvantages
Introduction to Photo Electric Sensor.	Application
Types.	
Characterstics	
Advantages & Disadvantages	
Application	

Signature:

Mr. Chetan Rajdev

Nitin Sapre

Dr. J.P.Patel

D.I.Patel

C.K.Chauhan

