



Vishnu Waman Thakur Charitable Trust's  
**VIVA Institute of Technology**

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra  
Affiliated to the University of Mumbai  
Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

**ACTION TAKEN 2021-22 (Mechanical)**

**Action Taken:**

| Sr. No. | Suggestion                       | Action Taken  | Date & Time               |
|---------|----------------------------------|---|---------------------------|
| 01      | Introduction to New Technologies | Expert Talk on "Electric Vehicle: Steps towards Green Revolution" by Aditya Talele from Aditya Motors                                   | 25/03/2022<br>1.30-3.30pm |
| 02      |                                  | Expert Talk on "Industry 4.0 and its implementation In Indian small scale Manufacturing Industries." By Bhaveshkumar Pasi, Phd Scholar. | 24/03/2022<br>10.00-12.00 |

|    |  |  |                            |
|----|--|--|----------------------------|
| 03 | More Focus on Application Oriented Learning.             | Industrial Visit to "Ice Factory , Pachubandar, Vasai"                                       | 11/04/2022 &<br>12/04/2022 |
| 04 | More Focus on Application Oriented Learning.             | Industrial Visit for SE Mechanical to "VDA Technologies, Vasai-East"                         | 19/04/2022                 |
| 05 | Curriculum Should be scope up with Industry Need.        | Faculty Industrial Visit to " Mauli Associates, Virar-East"                                  | 3/03/2022                  |
| 06 |  | Students are asked to read Research paper related to application based topics of the course. | Every semester             |
| 07 |  | Real life Problem statements are choose for Major Project                                    | Every Year                 |
| 08 | More practical knowledge should be given with curriculum | Project Based Learning For SE & TE   | Every Year                 |





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**ANALYSIS REPORT**

| Sr. No. | Question   | Excellent | %  | Good | %  | Satisfactory | %  | Fair | % | Poor | % |
|---------|--|-----------|----|------|----|--------------|----|------|---|------|---|
| 1       | How do you rate the availability of the Text and reference books in the Market?                                      | 11        | 9  | 39   | 32 | 50           | 41 | 11   | 9 | 10   | 8 |
| 2       | Does curriculum helps in developing personality?   | 20        | 17 | 45   | 37 | 45           | 37 | 7    | 6 | 4    | 3 |
| 3       | How do you rate the courses(subjects) in terms of their relevance to the latest technologies or future technologies? | 25        | 21 | 49   | 40 | 33           | 27 | 11   | 9 | 3    | 2 |
| 4       | How do you rate the outcomes that has achieved from the different projects/mini projects?                            | 29        | 24 | 53   | 44 | 37           | 31 | 2    | 2 | 0    | 0 |
| 5       | How do you rate the overall curriculum ?   | 24        | 20 | 58   | 48 | 29           | 24 | 7    | 6 | 3    | 2 |





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| Sr. No. | Question   | Excellent | %  | Good | %  | Satisfactory | %  | Fair | %  | Poor | % |
|---------|--|-----------|----|------|----|--------------|----|------|----|------|---|
| 1       | How do you rate the availability of the Text and reference books in the Market?                                      | 6         | 38 | 7    | 44 | 2            | 13 | 1    | 6  | 0    | 0 |
| 2       | Does curriculum helps in developing personality?   | 2         | 13 | 7    | 44 | 5            | 31 | 2    | 13 | 0    | 0 |
| 3       | How do you rate the courses(subjects) in terms of their relevance to the latest technologies or future technologies? | 3         | 19 | 5    | 31 | 6            | 38 | 2    | 13 | 0    | 0 |
| 4       | How do you rate the outcomes that has achieved from the different projects/mini projects?                            | 6         | 38 | 6    | 38 | 2            | 13 | 2    | 13 | 0    | 0 |
| 5       | How do you rate the overall curriculum ?   | 3         | 19 | 8    | 50 | 4            | 25 | 1    | 6  | 0    | 0 |





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| Sr. No. | Question   | Excellent | %  | Good | %  | Satisfactory | %  | Fair | %  | Poor | % |
|---------|--|-----------|----|------|----|--------------|----|------|----|------|---|
| 1       | How do you rate the availability of the Text and reference books in the Market?                                      | 5         | 20 | 10   | 40 | 8            | 32 | 2    | 8  | 0    | 0 |
| 2       | Does curriculum helps in developing personality?   | 6         | 24 | 8    | 32 | 7            | 28 | 2    | 8  | 2    | 8 |
| 3       | How do you rate the courses(subjects) in terms of their relevance to the latest technologies or future technologies? | 5         | 20 | 8    | 32 | 6            | 24 | 4    | 16 | 2    | 8 |
| 4       | How do you rate the outcomes that has achieved from the different projects/mini projects?                            | 4         | 16 | 13   | 52 | 6            | 24 | 1    | 4  | 1    | 4 |
| 5       | How do you rate the overall curriculum ?   | 5         | 20 | 10   | 40 | 7            | 28 | 2    | 8  | 1    | 4 |





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## FILLED FORM

### Feedback on Curriculum

tejaschaudhari@viva-technology.org [Switch account](#)

\* Required

Email \*

Your email \_\_\_\_\_

Your Name \*

Your answer \_\_\_\_\_

Your Surname \*

Your answer \_\_\_\_\_

Choose

- Management
- Faculty
- Alumni
- Industry / Guest





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## Feedback on Curriculum

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\* Required

### Questions

1 (POOR) , 2 (FAIR), 3 (SATISFACTORY), 4 (GOOD), 5 (EXCELLENT)

How do you rate the availability of the Text and reference books in the Market? \*

1 2 3 4 5  
POOR      EXCELLENT

Does curriculum helps in developing personality? \*

1 2 3 4 5  
POOR      EXCELLENT

How do you rate the courses(subjects) in terms of their relevance to the latest technologies or future technologies? \*

1 2 3 4 5  
POOR      EXCELLENT





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How do you rate the courses(subjects) in terms of their relevance to the latest technologies or future technologies? \*

1 2 3 4 5

POOR      EXCELLENT

How do you rate the outcomes that has achieved from the different projects/mini projects? \*

1 2 3 4 5

POOR      EXCELLENT

How do you rate the overall curriculum ? \*

1 2 3 4 5

POOR      EXCELLENT

Suggestions:

Your answer

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Feedback on Curriculum (Responses)

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| Sr | A                                 | B         | C            | D              | E        | F  | G   | H   | I   | J   | K   |
|----|-----------------------------------|-----------|--------------|----------------|----------|--|---|---|---|---|---|
| 1  | Email Address                     | Your Name | Your Surname | Contact Number | Category | Ytly of the feed and its help in developer | ity of the feed and its help in developer | ity of the feed and its help in developer | ity of the feed and its help in developer | ity of the feed and its help in developer | ity of the feed and its help in developer |
| 26 | 191021toprak@viva-technology.org  | Pratik    | Vathe        | 962325733      | Alumni   | 4  | 4   | 3   | 4   | 3   | 3   |
| 27 | 1910214kshani@viva-technology.org | Ahansa    | Vatuk        | 869149448      | Alumni   | 3  | 3   | 4   | 4   | 4   | 4   |
| 28 | 1910711bhavap@viva-technology.org | Pratik    | SHITAL       | 705132661      | Alumni   | 3  | 3   | 3   | 3   | 4   | 4   |
| 29 | 1910230nayan@viva-technology.org  | Ashay     | Queta        | 879325233      | Alumni   | 3  | 3   | 1   | 1   | 2   | 1   |
| 30 | 1716913toprak@viva-technology.org | Pratik    | Khite        | 952719303      | Alumni   | 2  | 2   | 2   | 2   | 4   | 3   |
| 31 | 1910214kshani@viva-technology.org | Hitesh    | Sakal        | 444825748      | Alumni   | 4  | 5   | 4   | 4   | 4   | 4   |
| 32 | 1810333anant@viva-technology.org  | Vansh     | Singh        | 973448437      | Alumni   | 4  | 4   | 4   | 4   | 4   | 4   |
| 33 | 1910214kshani@viva-technology.org | Pratik    | SHITAL       | 705132661      | Alumni   | 4  | 4   | 4   | 4   | 4   | 4   |
| 34 | 1910214kshani@viva-technology.org | Vish      | Sankha       | 866741717      | Alumni   | 2  | 2   | 2   | 2   | 2   | 2   |
| 35 | 1910214kshani@viva-technology.org | Vish      | Joshi        | 866988731      | Alumni   | 4  | 4   | 4   | 4   | 4   | 4   |
| 36 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 869167936      | Alumni   | 3  | 3   | 3   | 3   | 3   | 3   |
| 37 | 191179pratik@viva-technology.org  | Pratik    | Kucan        | 887548453      | Alumni   | 3  | 4   | 3   | 4   | 3   | 3   |
| 38 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 887548453      | Alumni   | 5  | 5   | 5   | 5   | 5   | 5   |
| 39 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 887548453      | Alumni   | 3  | 4   | 2   | 3   | 3   | 3   |
| 40 | 1716556suraj@viva-technology.org  | Suraj     | Gradi        | 951846751      | Alumni   | 5  | 5   | 5   | 5   | 4   | 5   |
| 41 | 1910711bhavap@viva-technology.org | Pratik    | Vish         | 968110231      | Alumni   | 4  | 4   | 4   | 4   | 4   | 4   |
| 42 | 1818291sharan@viva-technology.org | Sharan    | Kucan        | 829142238      | Alumni   | 4  | 4   | 1   | 1   | 3   | 2   |
| 43 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 887548453      | Alumni   | 3  | 3   | 4   | 2   | 4   | 3   |
| 44 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 887548453      | Alumni   | 3  | 3   | 3   | 3   | 3   | 3   |
| 45 | 1910214kshani@viva-technology.org | Pratik    | Prati        | 887548453      | Alumni   | 3  | 3   | 3   | 3   | 3   | 3   |
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Curriculum should be in reference to projects and course

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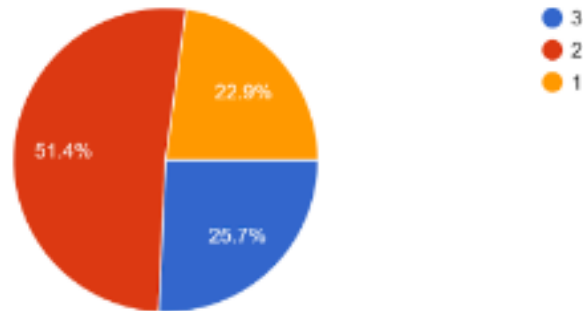
## COURSE EXIT SURVEY

**Subject:** - Engineering Mathematics

**Class:** - SE/ IV

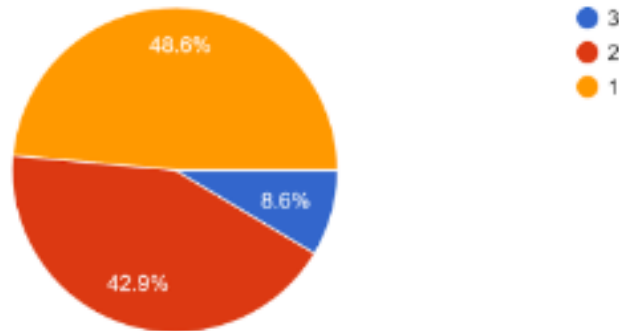
Q1. Can you apply the concept of Vector calculus to evaluate line integrals, surface integrals using Green's theorem, Stoke's theorem & Gauss Divergence theorem.?

35 responses



Q2. Can you use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals ?

35 responses



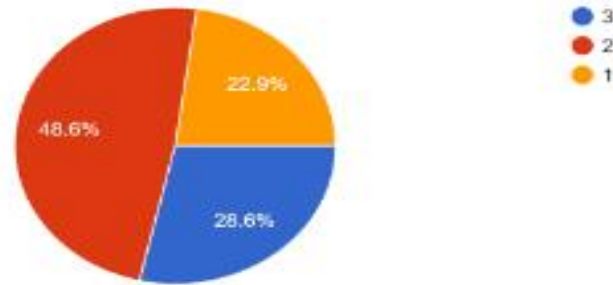


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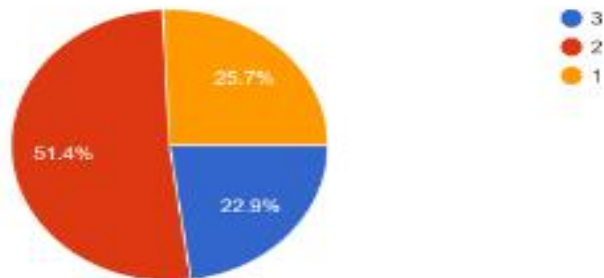
Q3. Can you apply the concept of Correlation, Regression and curve fitting to the engineering problems in data science. ?

35 responses



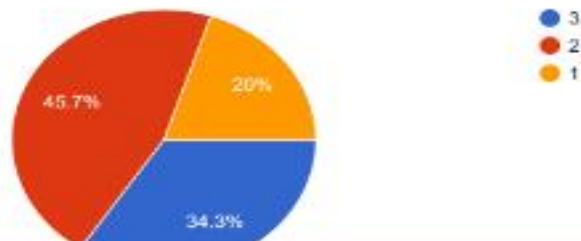
Q4. Can you illustrate understanding of the concepts of probability and expectation for getting the spread of the data and distribution of probabilities.?

35 responses



Q5. Can you apply the concept of probability distribution to engineering problems & testing hypothesis of small samples using sampling theory. ?

35 responses

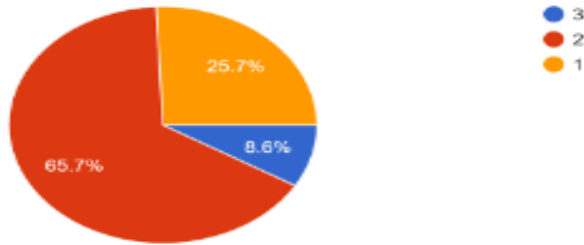




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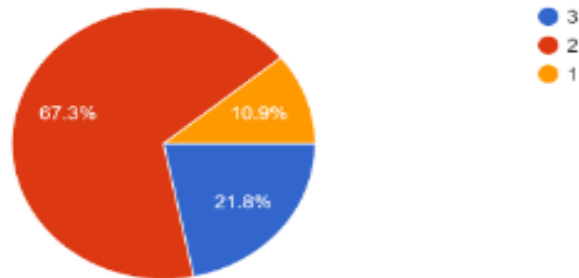
Q6. Can you apply the concepts of parametric and nonparametric tests for analyzing practical problems. ?  
35 responses



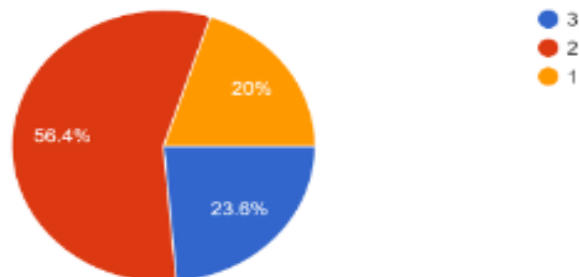
Subject: - Machine Design

Class: - TE/ VI

Q1. Can you use design data book/standard codes to standardize the designed dimensions?  
55 responses



Q2. Can you design Knuckle Joint, cotter joint and Screw Jack?  
55 responses



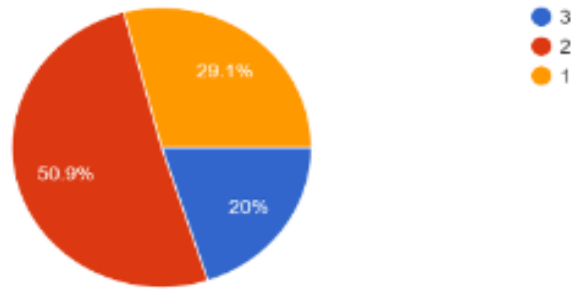


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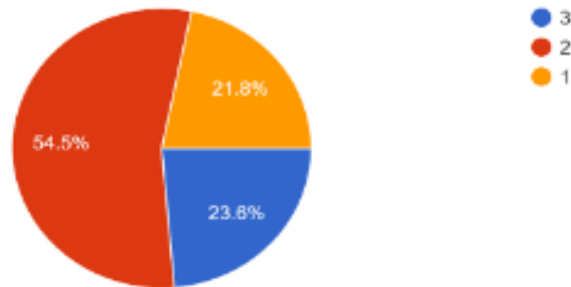
Q3. Can you design shaft under various conditions and couplings?

55 responses



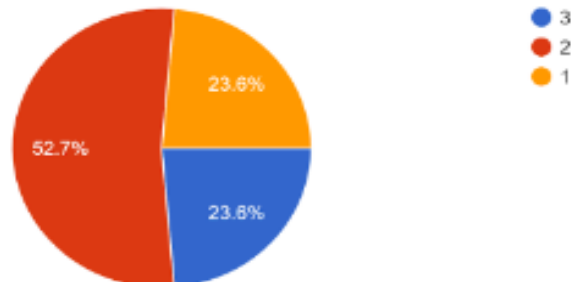
Q4. Can you select bearings for a given applications from the manufacturers catalogue ?

55 responses



Q5. Can you select and/or design belts and flywheel for given applications?

55 responses



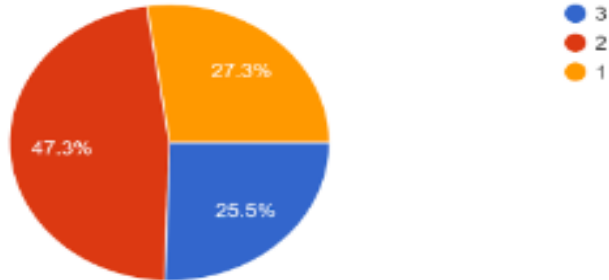


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Q6. Can you design springs, clutches and brakes?

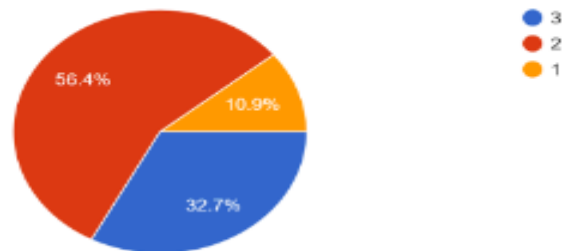
55 responses



Subject: - Heating Ventilation Air Conditioning and Refrigeration Class: - TE/ VI

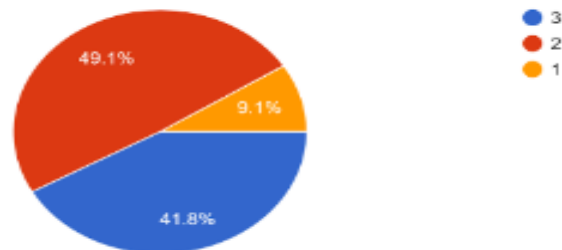
Q1. Can you illustrate the fundamental principles and applications of refrigeration and air conditioning systems?

55 responses



Q2. Can you identify various HVAC&R components ?

55 responses



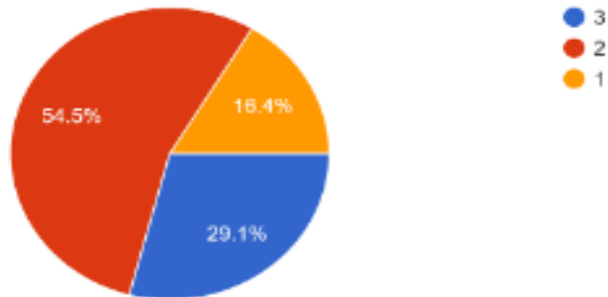


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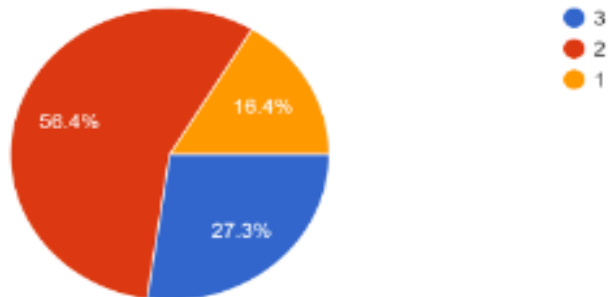
Q3. Can you evaluate performance of various Refrigeration Systems?

55 responses



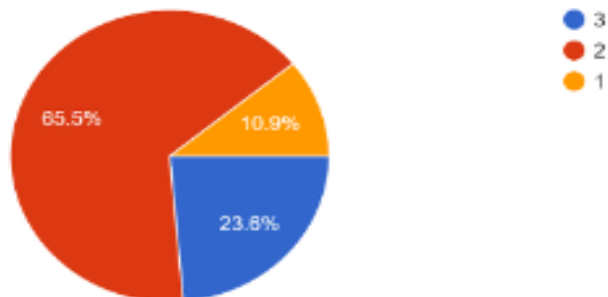
Q4. Can you estimate cooling and heating loads for an air-conditioning system?

55 responses



Q5. Can you select air handling unit & design air distribution Systems?

55 responses



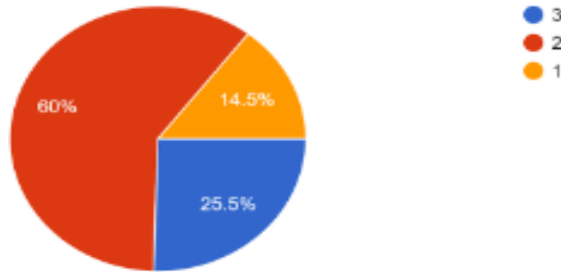


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Q6. Can you apply the knowledge HVAC for sustainable development of refrigeration and air conditioning systems?

55 responses

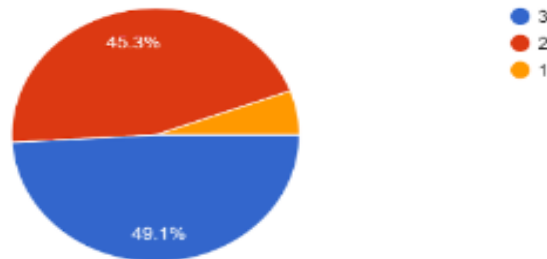


Subject: - Industrial Engineering and Management

Class: - BE/ VIII

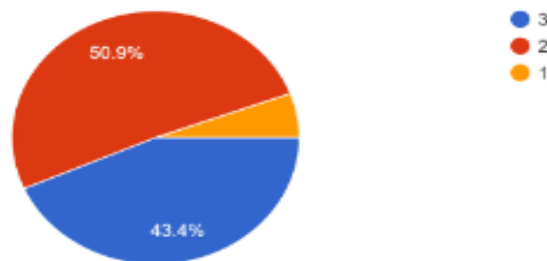
Q1. Can you illustrate the need for optimization of resources and its significance ?

53 responses



Q2. Can you develop ability in integrating knowledge of design along with other aspects of value addition in the conceptualization and manufacturing stage of various products ?

53 responses



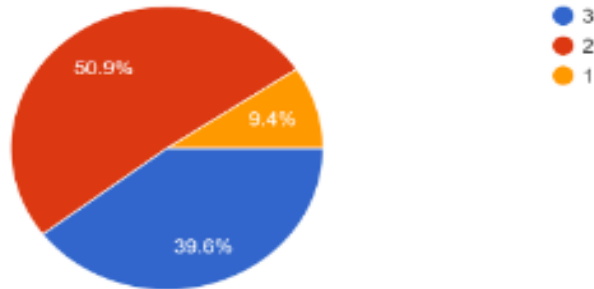


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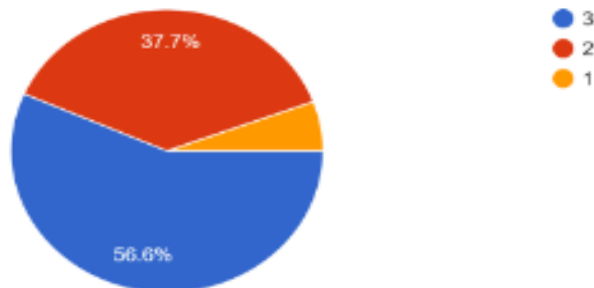
Q3. Can you demonstrate the concept of value analysis and its relevance?

53 responses



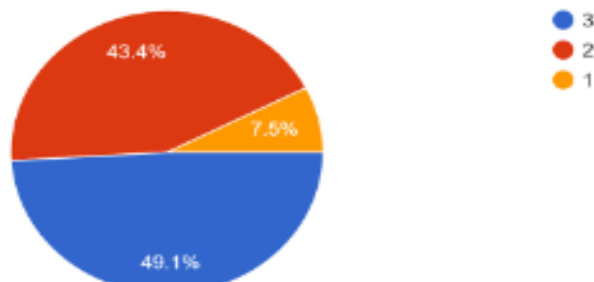
Q4. Can you manage and implement different concepts involved in method study and understanding of workcontent in different situations ?

53 responses



Q5. Can you describe different aspects of work system design and facilities design pertinent to manufacturing industries ?

53 responses





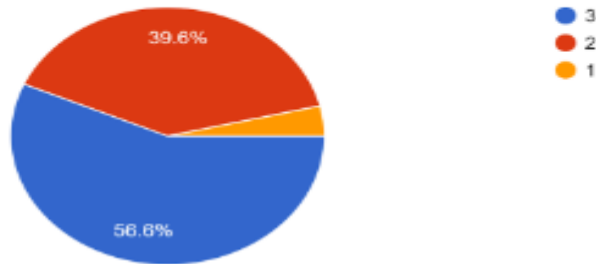


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Q6. Can you illustrate concepts of Agile manufacturing, Lean manufacturing and Flexible manufacturing?

53 responses

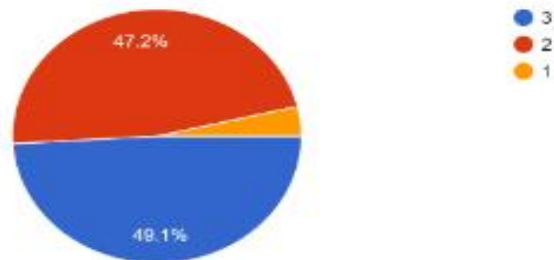


Subject: - Power Plant Engineering

Class: - BE/ VIII

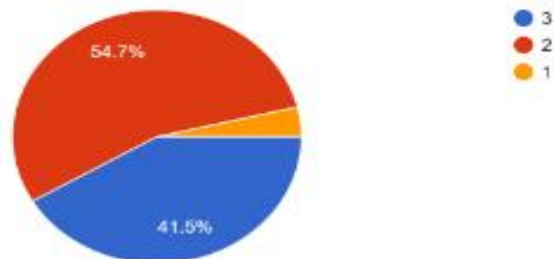
Q1. Can you comprehend various equipment/systems utilized in power plants ?

53 responses



Q2. Can you demonstrate site selection methodology, construction and operation of Hydro Electric Power Plants?

53 responses



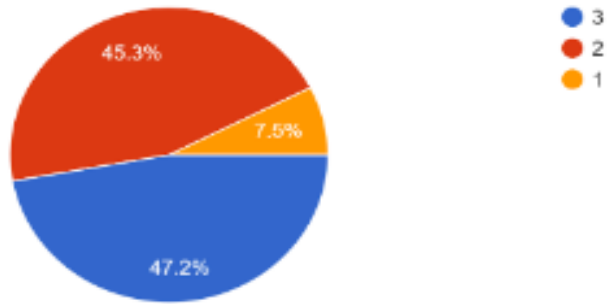


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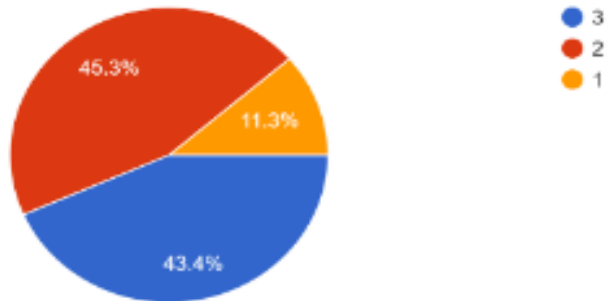
Q3. Can you discuss working, site selection, advantages, disadvantages of steam power plants?

53 responses



Q4. Can you discuss operation of Combined Cycle Power Plants?

53 responses





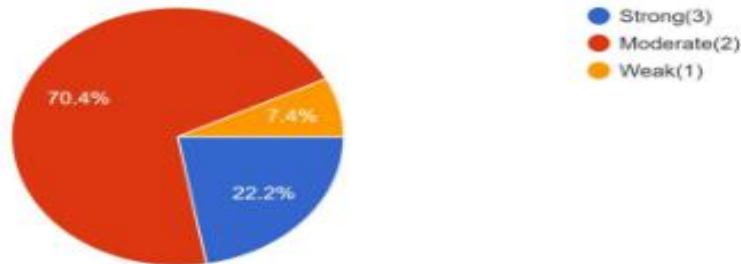
# Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra  
Affiliated to the University of Mumbai  
Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

## PROGRAM EXIT SURVEY

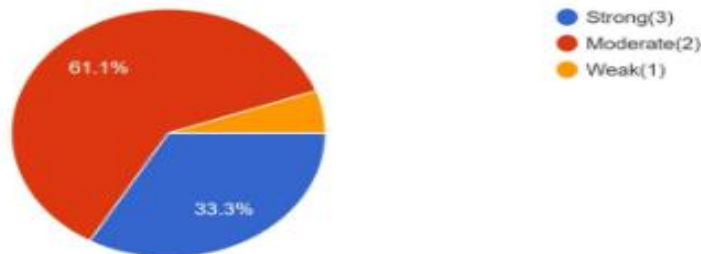
1. Are you able to apply the knowledge of mathematics, science, mechanical engineering fundamentals for solving complex engineering problems ?

108 responses



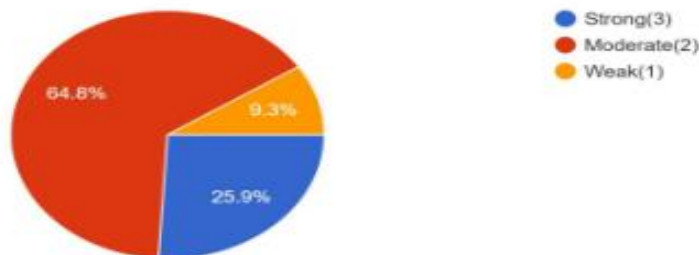
2. Can you identify, formulate, review and analyze complex engineering problems reaching logical conclusions using first principles of mathematics, natural and engineering sciences?

108 responses



3. Can you develop solutions for engineering problems and design system components or processes that meet the specified needs with appropriate, societal, and environmental considerations?

108 responses



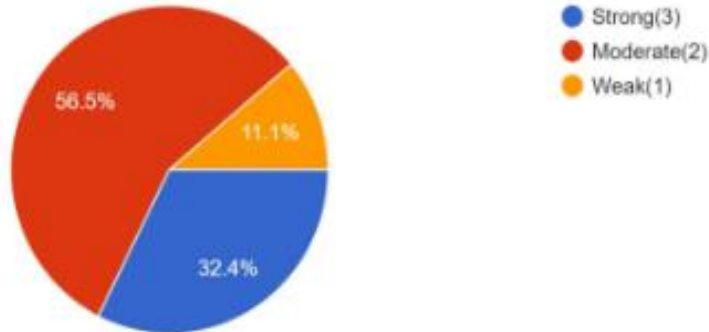


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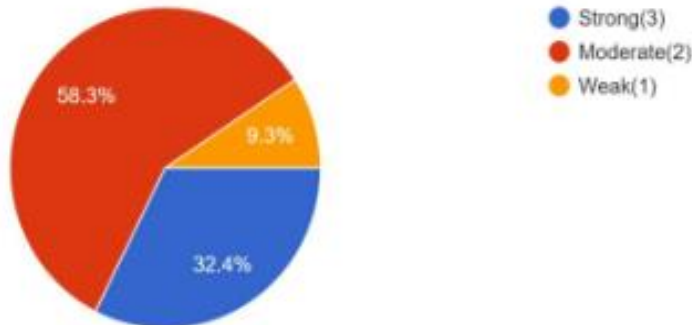
4. Have you ever used research-based knowledge and research methods including design of experiments, analysis and interpretation of data, analysis of the information to provide valid conclusions?

108 responses



5. Can you create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to various activities with an understanding of the limitations?

108 responses



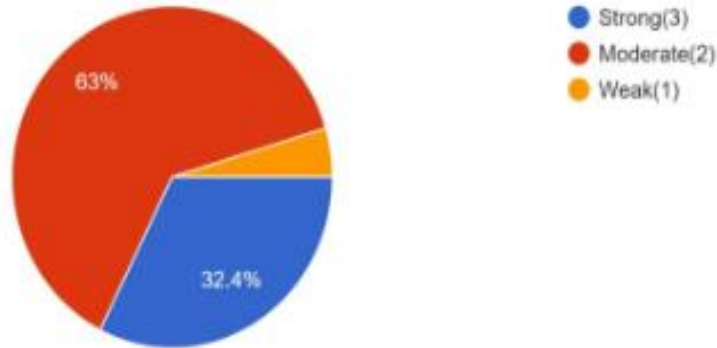


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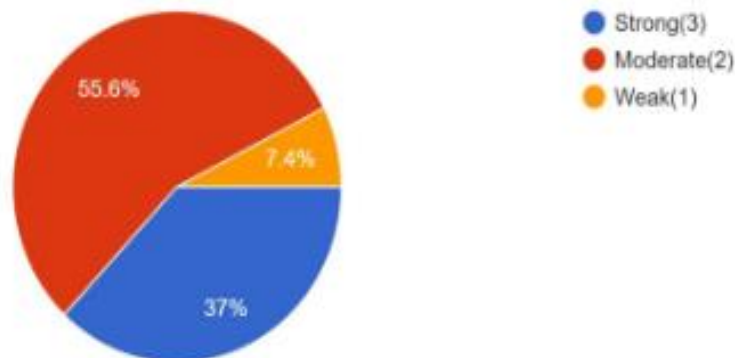
6. Can you Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent... relevant to the professional engineering practice?

108 responses



7. Do you understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development?

108 responses



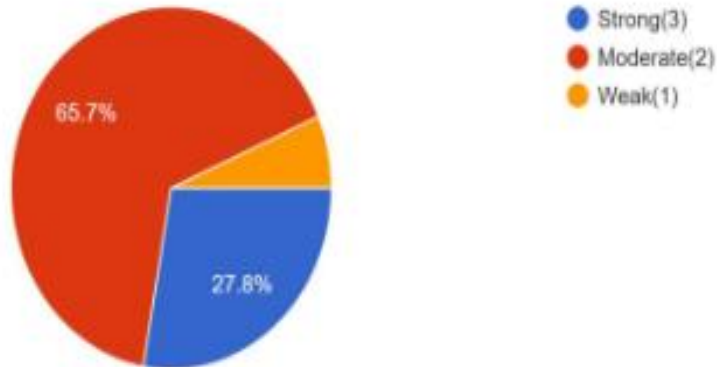


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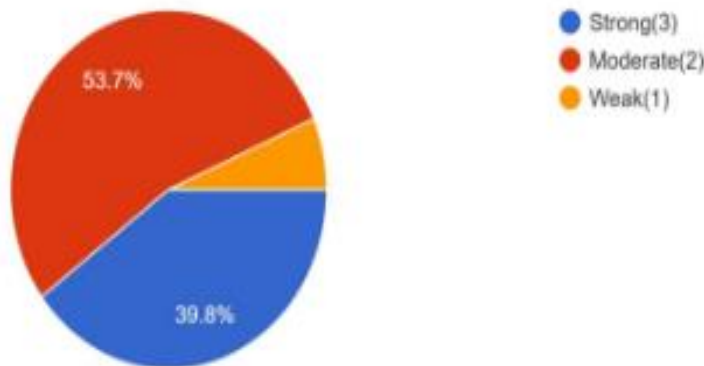
8. Will you apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice?

108 responses



9. Can you function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings ?

108 responses



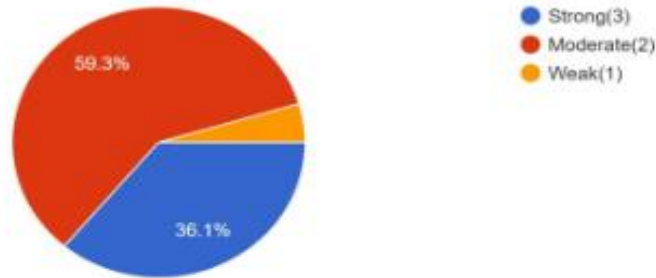


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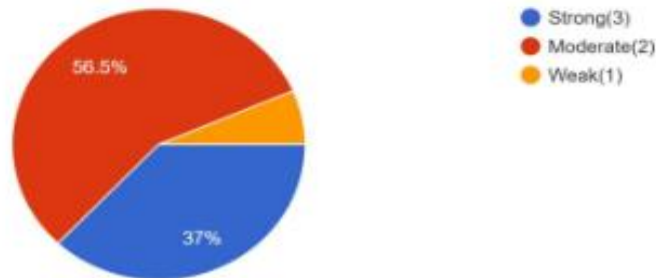
10. Can you communicate effectively on engineering activities with the engineering community and with society at large, such as, being able to compre...sentations, and give and receive clear instruction?

108 responses



11. Are you able to demonstrate knowledge and understanding of the engineering and management principles and apply these to one's ow...ge projects and in multidisciplinary environment?

108 responses



12. Do you recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change?

108 responses

