

## NAAC DOCUMENTS



Quality Indicator Frame Work

## Criterion - 2

Teaching-Learning and Evaluation
Submitted by
IQAC

## Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai) Kaikkurichi, Pudukkottai, Tamil Nadu - 622 303, India

## Criteria 2 Teaching-Learning and Evaluation

Key Indicator- 2.6. Student Performance and Learning Outcome (90)
2.6.2 Attainment of POs and COs are evaluated (20)

## 2018-2019

## ATTAINMENT EVALUATION OF POs \& COs

 CIVIL ENGINEERING
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai) Kaikkurichi, Pudukkottai-622-303.

Department of Civil Engineering
Academic year: (2018-2019)
PO-PSO ATTAINMENT

| PO/PSO | STATEMENT | TARGET | $\begin{aligned} & \text { ATTAINED } \\ & \text { VALUE } \end{aligned}$ | ATTAINMENT $\%$ |
| :---: | :---: | :---: | :---: | :---: |
| PO1 | Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems. | 2.53 | 1.76 | 69.69\% |
| PO2 | Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, natural sciences, and engineering sciences. | 1.88 | 1.28 | 67.94\% |
| PO3 | Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. | 1.55 | 1.07 | 68.60\% |
| PO4 | Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. | 1.28 | 0.86 | 67.16\% |
| PO5 | Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. | 1.06 | 0.79 | 74.73\% |
| P06 | Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. | 1.39 | 1.03 | 73.93\% |
| PO7 | Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development. |  | ~ | $69.74 \%$ |
| PO8 | Apply ethical principles and confieqd professional ethics and responsibilities |  | $\text { M. } 18 \text { Ph }$ | 87.06 |

$\left.\begin{array}{|c|l|l|l|l|}\hline & \text { and norms of the engineering practice. } & & & \\ \hline \text { PO9 } & \begin{array}{l}\text { Function effectively as an individual, } \\ \text { and as a member or leader in diverse } \\ \text { teams, and in multidisciplinary settings. }\end{array} & 1.35 & 1.02 & 75.84 \% \\ \hline & \begin{array}{l}\text { Communicate effectively on complex } \\ \text { engineering activities with the } \\ \text { engineering community and with }\end{array} & 1.31 & 0.92 & 70.10 \% \\ \hline \text { Pociety at large, such as, being able to } \\ \text { somprehend and write effective reports } \\ \text { and design documentation, make } \\ \text { effective presentations, and give and } \\ \text { receive clear instructions. }\end{array}\right)$


## CIVIL DEPARTMENT

ACADEMIC YEAR 2018-2019

## CO-PO-PSO TARGET AND ATTAINMENT


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## SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Department of Civil Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

 ACADEMIC YEAR : 2018-2019 (ODD SEM)YEAR/SEM: III /V
Batch:2016-2020
SUBJECT : CE6504 Highway Engineering
CO Attainment Level: 1 - (UPTO 60\%)
2- ( $61 \%-79 \%$ )
3-(80\% and Above) TOTAL STRENGTH


| CO | CO-Attainment Internal (COINT) <br> (Avg. Attainment of All section) (\%) | CO-Attainment <br> University <br> (CO-UNI) <br> (Avg. <br> Attainment of All section) (\%) | Direct CO Attainment $(0.20 \times \mathrm{CO}-\mathrm{INT}+$ $0.80 \times \mathrm{xCO}-\mathrm{UNI})$ $(\%)$ | CO <br> Attainment Level |
| :---: | :---: | :---: | :---: | :---: |
| C304.1 | 100.0 | 41.67 | 53.3 | 1 |
| C304.2 | 100.0 | 41.67 | 53.3 | 1 |
| C304.3 | 100.0 | 41.67 | 53.3 | 1 |
| C304.4 | 100.0 | 41.67 | 53.3 | 1 |
| C304:5 | 100.0 | 41.67 | 53.3 | 1 |
| C304.6 | 100.0 | 41.67 | 53.3 | 1 |


| Course | POI | PO2 | PO3 | PO4 | PO5 | P06 | P07 | PO8 | PO9 | P010 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C304.1 | 3 | 2 | 2 | 2 | $\checkmark$ | - | $\checkmark$ | $\checkmark$ | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304.2 | 3 | 2 | 2 | 2 | $\square$ | - | - | - | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304.3 | 3 | 2 | 2 | 2 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304.4 | 3 | 2 | 2 | 2 | $\checkmark$ | 1 | - | $\square$ | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304. | 3 | 2 | 2 | 2 | $\square$ | $\square$ | $\square$ | $\sim$ | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304.6 | 3 | 2 | 2 | 2 | $\cdots$ | - | - | - | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| C304 | 3 | 2 | 2 | 2 | $\cdots$ | 1 | - | - | 1. | 1 | 1 | 1 | 2 | 1 | 1 |


| Course | POI | PO2 | PO3 | PO4 | PO5 | PO6 | P07 | PO8 | P09 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C304.1 | 1 | 0.67 | 0.67 | 0.67 | - | - | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 0.33 |
| C304.2 | 1 | 0.67 | 0.67 | 0.67 | - | $-$ | $\square$ | $-$ | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 0.33 |
| C3043 | 1 | 067 | 0.67 | 067 | $\square$ | $\square$ | $\square$ | $\square$ | 033 | 03.33 | 0.33 | 033 | 0.67 | 0333 | 0333 |
| C304.4 | 1 | 0.67 | 0.67 | 0.67 | - | 0.33 | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 0.33 |
| C304.5 | 1 | 0.67 | 0.67 | 0.67 | $\square$ | - | $\square$ | $\square$ | 0.33 | 0.33 | 0.33 | 0.33 | 0,67 | 0.33 | 0.33 |
| C304.6 | 1 | 0.67 | 0.67 | 0.67 | $-$ | - | - | $-$ | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 0.33 |
| C304 | 1 | 0.67 | 0.67 | 0.67 | - | 0.33 | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 033 |


| Attainment of POs and PSOs: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course Code | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | P07 | P08 | P09 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| C304 | 3 | 2 | 2 | 2 | - | 1 | . | - | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Attainment | 1 | 0.67 | 0.67 | 0.67 | - | 0.33 | - | - | 0.33 | 0.33 | 0.33 | 0.33 | 0.67 | 0.33 | 0.33 |



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DEPARTMENT OF CIVIL ENGINEERING

## ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT

ACADEMIC YEAR 2018-2019

In order to bridge the gap between the attained level with respect to the target level in each POs and PSOs, the following corrective measures were taken.

| S.NO | NAME OF THE ACTIVITY PROPOSED | FOCUSED POS \& PSOS |
| ---: | :--- | :--- |
| 1. | Value Added Course (VAC) - Corrosion of <br> RC structures. | PO1,PO2,PO3,PO4,PO5,PO9,PO10, <br> PO12, PSO1,PSO2,PSO3 |
| 2. | Entrepreneurship \& Development cell <br> (EDC) - The Future of EdTech: Women <br> Entrepreneurs Revolutionizing Education. | PO6,PO7,PO8,PO11 |
| 3. | Intellectual Property Rights (IPR) - IPR <br> Strategies for Research and Development | PO6,PO7,PO8,PO11 |
| 4. | Language and Communication Technology <br> (LCT) - Language for everyday life. | PO9,PO10 |
| 5. | Soft Skill Program - Enhancing soft skills for <br> success and professional excellence. | $\mathrm{PO10}$ |
| 6. | Life Skill Program - Physical and mental <br> health. | PO8 |
| 7. | Information Communication Technology <br> (ICT) tools - Collaborative tools for online <br> teaching and learning. | PO5,PO12 |
| 8. | Research Methodology (RM) - Integrated <br> Water Resources Management. | PO1,PO2,PO3,PO4,PSO1,PSO2,PSO3 |



