

Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Computer Engineering**  
Academic Year 2020-21 (First Half 2020)

Sem – VI

Subject/ Course – SOFTWARE ENGINEERING CSC 601

**Course Outcomes**

| CO Number | Course Outcome (CO)                                                                   |
|-----------|---------------------------------------------------------------------------------------|
| CO1       | Identify requirements, analyze and prepare models.                                    |
| CO2       | Plan, schedule and track the progress of the projects.                                |
| CO3       | Design & develop the software projects.                                               |
| CO4       | Identify risks, manage the change to assure quality in software projects.             |
| CO5       | Apply testing principles on software project and understand the maintenance concepts. |



**Shri. Gopinath Mahadeo Vedak Pratishthan's**  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**  
 Department of Computer Engineering  
 Academic Year 2020-21 (First Half 2021)

Year / Sem - II / V CDECS  
 Subject/ Course - Software Engineering (CSC301)

**Evaluation of Internal Assessment**

| Roll No.                            | Name of Student                   | IA-1 |      |      |      |      |      |      |     | Total Marks 20 | IA-2  |       |       |       |       |      |      |    | Total Marks 20 |  |
|-------------------------------------|-----------------------------------|------|------|------|------|------|------|------|-----|----------------|-------|-------|-------|-------|-------|------|------|----|----------------|--|
|                                     |                                   | Q.1  |      |      |      |      | Q.2  |      |     |                | Q.1   |       |       |       |       | Q.2  |      |    |                |  |
|                                     |                                   | 1    | 2    | 3    | 4    | 5    | 1    | 2    | 3   |                | 4     | 5     | 1     | 2     | 3     | 4    | 5    |    |                |  |
|                                     |                                   | CO1  | CO2  | CO3  | CO4  | CO5  | CO1  | CO2  | CO3 |                | CO4   | CO5   | CO1   | CO2   | CO3   | CO4  | CO5  |    |                |  |
|                                     |                                   | 2    | 2    | 2    | 2    | 2    | 10   | 10   |     |                | 2     | 2     | 2     | 2     | 2     | 10   | 10   |    |                |  |
| 1                                   | BHAGAT OM MAHESH                  | 2    | 2    | 2    | 2    | 2    | 8    | 8    | 18  |                | 2     | 2     | 2     | 2     | 2     | 8    | 8    | 17 |                |  |
| 2                                   | BHAGAT SHREYASH RAVINDRA          | 2    | 2    | 0    | 2    | 2    | 9    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 3                                   | BHINTEKAR AMOL AJAY               | 2    | 2    | 2    | 2    | 2    | 10   | 0    | 20  |                | 2     | 2     | 2     | 2     | 2     | 8    | 0    | 18 |                |  |
| 4                                   | CHANDHOKAR NIDHI ARUN             | 2    | 2    | 2    | 2    | 2    | 0    | 10   | 20  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 5                                   | CHOKKLE JAYJEN AKIL               | 2    | 2    | 2    | 2    | 2    | 0    | 9    | 19  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 6                                   | DANDHAKAR DHANSHIRI VINOD KAMDHAR | 2    | 2    | 2    | 2    | 2    | 7    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 7                                   | DHIMIPANDE SATYEN SUNIL           | 2    | 2    | 0    | 2    | 2    | 9    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 8                                   | DHURAKT NARODI PRADHAKAR          | 2    | 0    | 2    | 2    | 2    | 9    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 9                                   | DODAS BHUBHAN YASHODKAR           | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 7    | 0    | 17 |                |  |
| 10                                  | DODAS RAVI RAUTANI                | 2    | 2    | 2    | 2    | 0    | 0    | 8    | 16  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 11                                  | DANANMATA ANAMI INTERKHARVA       | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 12                                  | DHODALE ABHINAV KESH              | 2    | 2    | 2    | 0    | 0    | 0    | 6    | 12  |                | 2     | 2     | 2     | 2     | 2     | 8    | 0    | 18 |                |  |
| 13                                  | DODNE KISHOR PRADKASHI            | 2    | 2    | 2    | 2    | 2    | 0    | 10   | 20  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 14                                  | GOHIL SHAILESH SHASHIKANT         | 2    | 2    | 2    | 2    | 0    | 7    | 0    | 15  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 15                                  | JADHAV PRANAV ARVIND              | 2    | 2    | 2    | 0    | 2    | 8    | 0    | 16  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 16                                  | JADHAV ROHIT RAJENDRA             | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 8    | 18 |                |  |
| 17                                  | KADANE OMKAR SANTOSH              | 2    | 2    | 2    | 0    | 2    | 8    | 0    | 16  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| 18                                  | KATOK KRUNAL JYOTIRAM             | 2    | 2    | 2    | 2    | 2    | 0    | 9    | 19  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 19                                  | KHOPKAR DIKSHA ANI                | 2    | 2    | 2    | 2    | 2    | 5    | 0    | 15  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 20                                  | KODH AMOL GANESH                  | 2    | 2    | 2    | 0    | 2    | 10   | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| 21                                  | MHATRE RAJAVINASH                 | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 22                                  | MODUGUNSHI KAILASH                | 2    | 2    | 2    | 0    | 2    | 7    | 0    | 15  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 23                                  | NAKTI NIDHIRANT DHILIP            | 2    | 2    | 2    | 2    | 2    | 7    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 0    | 8    | 18 |                |  |
| 24                                  | NATALKAR ADITYA PRADIP            | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 8    | 18 |                |  |
| 25                                  | PATEKAR NAGUT DATTARAM            | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 26                                  | PATIL HARSHAL DNYANESHWAR         | 2    | 2    | 2    | 2    | 2    | 0    | 0    | 10  |                | 2     | 2     | 2     | 2     | 2     | 8    | 0    | 18 |                |  |
| 27                                  | PATIL JYOTI KANVIKAS              | 2    | 2    | 2    | 2    | 2    | 10   | 0    | 20  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 28                                  | PAWAR KIRITNA VINODKAS            | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 29                                  | PHADKAR SHRI RAJ PRADIP           | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 6    | 16 |                |  |
| 30                                  | PRASAD POKHA                      | 2    | 2    | 2    | 2    | 2    | 8    | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| 31                                  | RATWADKAR PALLAV PRADIP           | 2    | 2    | 0    | 2    | 2    | 10   | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| 32                                  | SALVI ABHINAV K.                  | 2    | 2    | 0    | 2    | 2    | 7    | 0    | 15  |                | 2     | 2     | 2     | 2     | 2     | 10   | 0    | 20 |                |  |
| 33                                  | SANANSHWARAJ DATTATRAY            | 2    | 2    | 2    | 2    | 2    | 7    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 34                                  | SHETAPURKAR KANTIRI NARANDKI MAR  | 2    | 2    | 2    | 2    | 2    | 0    | 8    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 35                                  | SHIRUR JAYJEN DHIRAJ              | 2    | 2    | 0    | 2    | 2    | 9    | 0    | 17  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 36                                  | SHIRUR MANOJ PHOTTONINGJI         | 2    | 2    | 2    | 2    | 2    | 10   | 0    | 20  |                | 2     | 2     | 2     | 2     | 2     | 0    | 9    | 19 |                |  |
| 37                                  | SHIRUR NARAYAN NETAJI NIVATI      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |                | 2     | 2     | 2     | 2     | 2     | 8    | 0    | 18 |                |  |
| 38                                  | SHIRUR NARTEK MAHENDRA            | 2    | 2    | 2    | 0    | 2    | 10   | 0    | 18  |                | 2     | 2     | 2     | 2     | 2     | 0    | 8    | 18 |                |  |
| 39                                  | THANAJI ABHINAV YASHWANT          | 2    | 2    | 0    | 2    | 2    | 6    | 0    | 14  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 40                                  | WARGE ROHIT SANTOSH               | 2    | 2    | 0    | 2    | 2    | 7    | 0    | 15  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| 41                                  | YADAV NASHIR ARVINDKUMAR          | 2    | 2    | 2    | 2    | 2    | 8    | 8    | 18  |                | 2     | 2     | 2     | 2     | 2     | 9    | 0    | 19 |                |  |
| 42                                  | YELKAR ANANDI RAJENDRA            | 2    | 0    | 0    | 2    | 2    | 0    | 10   | 16  |                | 2     | 2     | 2     | 2     | 2     | 0    | 10   | 20 |                |  |
| Average Marks                       |                                   | 2.0  | 1.0  | 1.0  | 2.0  | 2.0  | 0.0  | 9.0  |     |                | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 4.5  | 5.0  |    |                |  |
| Total No. of students               |                                   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42  |                | 42    | 42    | 42    | 42    | 42    | 42   | 42   |    |                |  |
| No. of students above Average Marks |                                   | 41   | 39   | 33   | 35   | 38   | 31   | 9    | 41  |                | 42    | 42    | 42    | 42    | 42    | 23   | 19   |    |                |  |
| No. of Students above Average Marks |                                   | 97.6 | 92.9 | 78.6 | 83.3 | 90.5 | 73.8 | 21.4 |     |                | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 54.8 | 45.2 |    |                |  |
| Level                               |                                   | 3    | 3    | 3    | 3    | 3    | 2    | 1    |     |                | 3     | 3     | 3     | 3     | 3     | 2    | 2    |    |                |  |

| CO Attainment due to Test | Level |
|---------------------------|-------|
| CO1                       | 1.80  |
| CO2                       | 2.2   |
| CO3                       | 1.8   |
| CO4                       | 2.667 |
| CO5                       | 2.667 |

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| a. Attainment Level 1: 40% students scoring more than the average marks                           |
| b. Attainment Level 2: 50% students scoring more than the average marks                           |
| c. Attainment Level 3: 60% students scoring more than the average marks                           |
| (Note: Faculty can decide the increment in levels considering the complexity of the subject)      |
| Attainment is measured in terms of actual percentage of students getting set percentage of marks. |



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 Academic Year 2020-21 (First Half 2021)

Year / Sem – TE / V CBCGS

Subject/ Course –Software Engineering (CSC601)

**Experiment Assessment**

| Roll No.      | Name of student                | Expt No 1 | Expt No 2 | Expt No 3 | Expt No 4 | Expt No 5 | Expt No 6 |
|---------------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|               |                                | CO1       | CO2       | CO2       | CO3       | CO2       | CO1       |
|               |                                | CO2       | CO3       | CO4       | CO5       | CO5       | CO4       |
|               |                                | Out of 10 | Out of 10 | Out of 10 | Out of 10 | Out of 10 | Out of 10 |
| 1             | BELOSE OM MAHESH               | 10        | 10        | 10        | 10        | 10        | 10        |
| 2             | BHAGAT SHREYASH RAVINDRA       | 10        | 10        | 10        | 10        | 10        | 10        |
| 3             | BHOSKAR AMOL AJAY              | 9         | 9         | 9         | 9         | 9         | 9         |
| 4             | CHANDORKAR NIDHI ARUN          | 10        | 10        | 10        | 10        | 10        | 10        |
| 5             | CHOULE TAJEEN AKIL             | 10        | 10        | 10        | 10        | 10        | 10        |
| 6             | DANDEKAR DHANSHIRI VISHWAMHAR  | 10        | 10        | 10        | 10        | 10        | 10        |
| 7             | DESHIMANDE SATYEN SUNIL        | 10        | 10        | 10        | 10        | 10        | 10        |
| 8             | DHARVE SAROJ PRABHAKAR         | 10        | 10        | 10        | 10        | 10        | 10        |
| 9             | DIWAN BURHAN FAROOQUE          | 9         | 9         | 9         | 9         | 9         | 9         |
| 10            | DOLAS RIYA RAJESH              | 10        | 10        | 10        | 10        | 10        | 10        |
| 11            | FANASMIYA AMAL INTEKHABA       | 10        | 10        | 10        | 10        | 10        | 10        |
| 12            | GHOTU ABHISHEKH                | 9         | 9         | 9         | 9         | 9         | 9         |
| 13            | GONJIRIDDHI PRAKASH            | 10        | 10        | 10        | 10        | 10        | 10        |
| 14            | GOTHAL SHAILESH SHASHIKANT     | 10        | 10        | 10        | 10        | 10        | 10        |
| 15            | JADHAV PRANAY ARVIND           | 9         | 9         | 9         | 9         | 9         | 9         |
| 16            | JADHAV ROHIT RAJENDRA          | 10        | 10        | 10        | 10        | 10        | 10        |
| 17            | KADAM OMKAR SANTOSH            | 9         | 9         | 9         | 9         | 9         | 9         |
| 18            | KATOR KRUNALI RAKESH           | 10        | 10        | 10        | 10        | 10        | 10        |
| 19            | KHOPKAR DIKSHA ANI             | 9         | 9         | 9         | 9         | 9         | 9         |
| 20            | KODI AMOL GANESH               | 10        | 10        | 10        | 10        | 10        | 10        |
| 21            | MHATRE RAJ AVINASH             | 9         | 9         | 9         | 9         | 9         | 9         |
| 22            | MODI GITESH KAILASH            | 10        | 10        | 10        | 10        | 10        | 10        |
| 23            | NAKTI SIDDHANT DILIP           | 10        | 10        | 10        | 10        | 10        | 10        |
| 24            | NATALKAR ADITYA PRADEEP        | 9         | 9         | 9         | 9         | 9         | 9         |
| 25            | PATEKAR SAHIT DATTARAM         | 10        | 10        | 10        | 10        | 10        | 10        |
| 26            | PATIL HARSHAL DNAYNESHVAR      | 9         | 9         | 9         | 9         | 9         | 9         |
| 27            | PATIL JIDNYASA VIKAS           | 10        | 10        | 10        | 10        | 10        | 10        |
| 28            | PAWAR REENA VISHWAS            | 9         | 9         | 9         | 9         | 9         | 9         |
| 29            | PHAKADE SURAJ POPAT            | 9         | 9         | 9         | 9         | 9         | 9         |
| 30            | PRASAD POOJA                   | 8         | 8         | 8         | 8         | 8         | 8         |
| 31            | RATWADKAR PALLAVI PRAVIN       | 10        | 10        | 10        | 10        | 10        | 10        |
| 32            | SALVI ABHISHEKH                | 8         | 8         | 8         | 8         | 8         | 8         |
| 33            | SANAS SWARAJ DATTATRAY         | 10        | 10        | 10        | 10        | 10        | 10        |
| 34            | SHAHAPURKAR KASTURI NANDKUMAR  | 9         | 9         | 9         | 9         | 9         | 9         |
| 35            | SHARMA JAYESH DUDHNATHI        | 10        | 10        | 10        | 10        | 10        | 10        |
| 36            | SHARMA MANOJ PHOTOSINGH        | 9         | 9         | 9         | 9         | 9         | 9         |
| 37            | SHESHWARE NIRNAY NETAJI NIYATI | 6         | 6         | 6         | 6         | 6         | 6         |
| 38            | SHINDE SARTILAK MAHENDRA       | 10        | 10        | 10        | 10        | 10        | 10        |
| 39            | THASAL ABHISHEKH YASHWANT      | 10        | 10        | 10        | 10        | 10        | 10        |
| 40            | WARGE ROHIT SANTOSH            | 10        | 10        | 10        | 10        | 10        | 10        |
| 41            | YADAV SANDEEP ARVINDKUMAR      | 9         | 9         | 9         | 9         | 9         | 9         |
| 42            | YELKAR ANJALI RAJENDRA         | 10        | 10        | 10        | 10        | 10        | 10        |
| Average marks |                                | 9.1       | 9.1       | 9.1       | 9.1       | 9.1       | 9.1       |

|                                     |    |    |    |    |    |    |
|-------------------------------------|----|----|----|----|----|----|
| Total No. of Students               | 42 | 42 | 42 | 42 | 42 | 42 |
| No. of students above Average Marks | 25 | 25 | 25 | 25 | 25 | 25 |
| % of Students above Average Marks   | 60 | 60 | 60 | 60 | 60 | 60 |
| Level                               | 3  | 3  | 3  | 3  | 3  | 3  |

| CO Attainment due to Experiments |        |
|----------------------------------|--------|
| CO                               | Levels |
| CO1                              | 3.0    |
| CO2                              | 3.0    |
| CO3                              | 3.0    |
| CO4                              | 3.0    |
| CO5                              | 3.0    |



| CO Attainment process:                                                                           |                                                                       |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| a                                                                                                | Attainment Level 1 - 40% students scoring more than the average marks |
| b                                                                                                | Attainment Level 2 - 50% students scoring more than the average marks |
| c                                                                                                | Attainment Level 3 - 60% students scoring more than the average marks |
| (Note: Faculty can decide the increment in levels considering the complexity of the subject)     |                                                                       |
| Attainment is measured in terms of actual percentage of students getting set percentage of marks |                                                                       |

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Year / Sem -TE /V CBCGS

Subject/ Course -Software Engineering (CSC601)

Assesment of Course Project and Internal oral

| Sr NO.                              | Name of student                | Q.1      | Q.2      | Q.3      | Total average marks |
|-------------------------------------|--------------------------------|----------|----------|----------|---------------------|
|                                     |                                | CO1      | CO3      | CO5      |                     |
|                                     |                                | CO2      | CO4      | CO1      |                     |
|                                     |                                | Out of 5 | Out of 5 | Out of 5 |                     |
| 1                                   | BELONE OM MAHESH               | 3        | 4        | 3        | 3                   |
| 2                                   | BHAGAT SHREYASH RAVINDRA       | 3        | 2        | 5        | 3                   |
| 3                                   | BHOSLE KARANJOI AJAY           | 3        | 4        | 3        | 3                   |
| 4                                   | CHANDORKAR NIDHI ARUN          | 4        | 3        | 3        | 3                   |
| 5                                   | CHOULE TAJEEN AKH              | 4        | 3        | 3        | 3                   |
| 6                                   | DANDI KARDHANSHRI VISHWAMBIHAR | 3        | 3        | 4        | 3                   |
| 7                                   | DESHIPANDE SATYEN SUNIL        | 3        | 4        | 4        | 4                   |
| 8                                   | DHARVE SAROT PRAHAKAR          | 3        | 2        | 2        | 2                   |
| 9                                   | DIWAN BURHAN FAROOQUE          | 2        | 3        | 2        | 2                   |
| 10                                  | DOLAS RIYA RAJESH              | 4        | 3        | 3        | 3                   |
| 11                                  | EANASMIYA AMAL INTERHABA       | 3        | 5        | 4        | 4                   |
| 12                                  | GHOTALE ABHISHEKH              | 5        | 3        | 3        | 4                   |
| 13                                  | GONJI RIDDHI PRAKASH           | 3        | 4        | 3        | 3                   |
| 14                                  | GOTHALE SHAILESH SHASHIKANT    | 3        | 4        | 3        | 3                   |
| 15                                  | JADHAV PRANAY ARVIND           | 5        | 4        | 3        | 4                   |
| 16                                  | JADHAV ROHIT RAJENDRA          | 4        | 4        | 5        | 4                   |
| 17                                  | KADAM OMKAR SANTOSH            | 3        | 4        | 3        | 3                   |
| 18                                  | KATOR KRISHNA LAKESH           | 5        | 4        | 3        | 4                   |
| 19                                  | KHOPKAR DIKSHA ANI             | 3        | 3        | 4        | 3                   |
| 20                                  | KODE ANOOL GANESH              | 3        | 3        | 3        | 3                   |
| 21                                  | MHATRE RAJ AVINASH             | 4        | 3        | 3        | 3                   |
| 22                                  | MODI GUNESH KAILASH            | 3        | 3        | 3        | 3                   |
| 23                                  | NAKTI SIDDHANT DHILIP          | 4        | 3        | 3        | 3                   |
| 24                                  | NATAIKAR ADITYA PRADEEP        | 3        | 3        | 4        | 3                   |
| 25                                  | PATEKAR SAJIT DATTARAM         | 4        | 3        | 3        | 3                   |
| 26                                  | PATIL HARSHAL DNAYNESHWAR      | 3        | 5        | 4        | 4                   |
| 27                                  | PATIL JIDNYASA VIKAS           | 3        | 4        | 3        | 3                   |
| 28                                  | PAWAR REENA VISHWAS            | 3        | 4        | 3        | 3                   |
| 29                                  | PHAKADE SURAJ POPAT            | 5        | 5        | 3        | 4                   |
| 30                                  | PRASAD POOJA                   | 3        | 3        | 4        | 3                   |
| 31                                  | RATWADKAR PALLAVI PRAVIN       | 3        | 4        | 3        | 3                   |
| 32                                  | SALVI ABHISHEK                 | 3        | 3        | 4        | 3                   |
| 33                                  | SANAS SWARAJ DATTATRAY         | 5        | 4        | 5        | 5                   |
| 34                                  | SHAHAPURKAR KASTURI NANDKUMAR  | 5        | 4        | 3        | 4                   |
| 35                                  | SHARMA JAYESH DUDHINATH        | 3        | 4        | 3        | 3                   |
| 36                                  | SHARMA MANOJ PHOTOSINGH        | 3        | 3        | 3        | 3                   |
| 37                                  | SHESHWARE NIRNAY NETAJI NIYATI | 3        | 4        | 3        | 3                   |
| 38                                  | SHINDE SARTHAK MAHENDRA        | 5        | 5        | 3        | 4                   |
| 39                                  | THASAL ABHISHEK YASHWANT       | 3        | 3        | 4        | 3                   |
| 40                                  | WARGE ROHIT SANTOSH            | 3        | 4        | 3        | 3                   |
| 41                                  | YADAV SANDEEP ARVINDKUMAR      | 3        | 4        | 3        | 3                   |
| 42                                  | YELKAR ANJALI RAJENDRA         | 4        | 3        | 3        | 3                   |
| Average Marks                       |                                | 3.5      | 3.8      | 3.4      |                     |
| No. of students above Average Marks |                                | 41       | 40       | 40       |                     |
| % of Students above Average Marks   |                                | 97.6     | 95.2     | 95.2     |                     |
| level                               |                                | 3        | 3        | 3        |                     |
| no of students attended             |                                | 42       |          |          |                     |

| CO Attainment due to Internal POE | Level |
|-----------------------------------|-------|
| CO1                               | 3     |
| CO2                               | 3     |
| CO3                               | 3     |
| CO4                               | 3     |
| CO5                               | 3     |



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Year / Sem -TE /V CBCGS  
Subject/ Course -Software Engineering (CSC601)

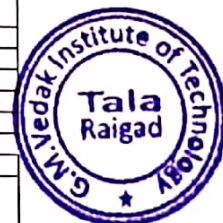
**Assessment of external oral examination**

| Roll No | Name of student                | Marks obtained |
|---------|--------------------------------|----------------|
| 1       | BELOSE OM MAHESHI              | 22             |
| 2       | BHAGAT SHREYASH RAVINDRA       | 22             |
| 3       | BHOSLEKAR AMOL AJAY            | 22             |
| 4       | CHANDORKAR NIDHI ARUN          | 24             |
| 5       | CHOULE FAZEEN AKIL             | 24             |
| 6       | DANDEKAR DHANSHIRI VISHWAMHAR  | 23             |
| 7       | DESHIMANDE SATYEN SUNIL        | 23             |
| 8       | DHARVE SAROJ PRABHAKAR         | 22             |
| 9       | DIWAN BURHAN FAROOQUE          | 22             |
| 10      | DOLAS RIYA RAJESH              | 22             |
| 11      | FANASMIYA AMAL INTEKHAB A      | 24             |
| 12      | GHOTAL ABHISHEKH               | 24             |
| 13      | GONJI RIDDHI PRAKASH           | 22             |
| 14      | GHOTAL SHAILESH SHASHIKANT     | 22             |
| 15      | JADHAV PRANAY ARVIND           | 22             |
| 16      | JADHAV ROHIT RAJENDRA          | 22             |
| 17      | KADAM OMKAR SANTOSH            | 21             |
| 18      | KATOR KRUNALI RAKESH           | 23             |
| 19      | KHOPKAR DIKSHA ANI             | 22             |
| 20      | KODE AMOL GANESH               | 22             |
| 21      | MHATRE RAJ AVINASH             | 22             |
| 22      | MODI GITESH KAILASH            | 22             |
| 23      | NAKTI SIDDHANT DILIP           | 23             |
| 24      | NATALKAR ADITYA PRADEEP        | 19             |
| 25      | PATEKAR SAJIT DATTARAM         | 22             |
| 26      | PATIL HARSHAL DNAYNESHVAR      | 22             |
| 27      | PATIL JIDNYASA VIKAS           | 24             |
| 28      | PAWAR REENA VISHWAS            | 22             |
| 29      | PHAKADE SURAJ POPAT            | 21             |
| 30      | PRASAD POOJA                   | 22             |
| 31      | RATWADKAR PALLAVI PRAVIN       | 23             |
| 32      | SALVI ABHISHEKH                | 19             |
| 33      | SANAS SWARAJ DATTATRAY         | 22             |
| 34      | SHAHAPURKAR KASTURI NANDKUMAR  | 22             |
| 35      | SHARMA JAYESH DUDHINATH        | 22             |
| 36      | SHARMA MANOJ PHOTOSINGH        | 22             |
| 37      | SHESHWARE NIRNAY NETAJI NIYATI | 0              |
| 38      | SHINDE SARTHAK MAHENDRA        | 23             |
| 39      | THASAL ABHISHEKH YASHWANT      | 21             |
| 40      | WARGE ROHIT SANTOSH            | 22             |
| 41      | YADAV SANDEEP ARVINDKUMAR      | 21             |
| 42      | YELKAR ANJALI RAJENDRA         | 23             |

|                                     |       |
|-------------------------------------|-------|
| Average Marks                       | 21.64 |
| Students Attempted                  | 42    |
| No. of students above Average Marks | 35    |
| Percentage Attainment               | 83.33 |
| Attainment level                    | 3     |

| CO Attainment due to External POE | Level |
|-----------------------------------|-------|
| CO1                               | 3     |
| CO2                               | 3     |
| CO3                               | 3     |
| CO4                               | 3     |
| CO5                               | 3     |

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| <b>CO Attainment process:</b>                                                                     |
| a. Attainment Level 1: 40% students scoring more than the average marks                           |
| b. Attainment Level 2: 50% students scoring more than the average marks                           |
| c. Attainment Level 3: 60% students scoring more than the average marks                           |
| (Note: Faculty can decide the increment in levels considering the complexity of the subject)      |
| Attainment is measured in terms of actual percentage of students getting set percentage of marks. |



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**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**  
**Department of Computer Engineering**  
**Academic Year 2020-21 (First Half 2021)**

Year / Sem –TE /VI CBCGS  
 Subject/ Course –Software Engineering (CSC601)

**Assessment of University Theory examination**

| Sr. No | Student Name                   | Marks obtained |
|--------|--------------------------------|----------------|
| 1      | BELOSE OM MAHESH               | 54             |
| 2      | BHAGAT SHREYASH RAVINDRA       | 59             |
| 3      | BHOSTEKAR AMOL AJAY            | 63             |
| 4      | CHANDORKAR NIDHI ARUN          | 70             |
| 5      | CHOGLE TAZEEN AKIL             | 61             |
| 6      | DANDEKAR DHANSHRI VISHWAMBHAR  | 62             |
| 7      | DESHIPANDE SATYEN SUNIL        | 59             |
| 8      | DHARVE SAROJ PRABHAKAR         | 59             |
| 9      | DIWAN BURIHAN FAROOQUE         | 46             |
| 10     | DOLAS RIYA RAJESH              | 53             |
| 11     | FANASMIYA AMAL INTEKHAB A      | 55             |
| 12     | GHOTAL ABHISHEKH               | 56             |
| 13     | GONJI RIDDHI PRAKASHI          | 60             |
| 14     | GOTHAL SHAILESH SHASHIKANT     | 58             |
| 15     | JADHAV PRANAY ARVIND           | 62             |
| 16     | JADHAV ROHIT RAJENDRA          | 62             |
| 17     | KADAM ONIKAR SANTOSH           | 61             |
| 18     | KATOR KRUNALI RAKESH           | 65             |
| 19     | KHOPKAR DIKSHA ANI             | 54             |
| 20     | KODE AMOL GANESH               | 57             |
| 21     | MILATRE RAJ AVINASH            | 62             |
| 22     | MODI GITESH KAILASH            | 58             |
| 23     | NAKTI SIDDHANT DILIP           | 54             |
| 24     | NATALKAR ADITYA PRADEEP        | 53             |
| 25     | PATEKAR SAHIT DATTARAM         | 54             |
| 26     | PATIL HARSHAL DNAYNESHVAR      | 53             |
| 27     | PATIL JIDNYASA VIKAS           | 57             |
| 28     | PAWAR REENA VISHWAS            | 58             |
| 29     | PHAKADE SURAJ POPAT            | 56             |
| 30     | PRASAD POOJA                   | 61             |
| 31     | RATWADKAR PALLAVI PRAVIN       | 52             |
| 32     | SALVI ABHISHEK                 | 47             |
| 33     | SANAS SWARAJ DATTATRAY         | 58             |
| 34     | SHAHAPURKAR KASTURI NANDKUMAR  | 69             |
| 35     | SHARMA JAYESH DUDHINATH        | 60             |
| 36     | SHARMA MANOJ PHOTOSINGH        | 61             |
| 37     | SHESHWARE NIRNAY NETAJI NIYATI | 61             |
| 38     | SHINDE SARTILAK MAHENDRA       | 58             |
| 39     | THASAL ABHISHEK YASHWANT       | 63             |
| 40     | WARGE ROHIT SANTOSH            | 65             |
| 41     | YADAV SANDEEP ARVINDKUMAR      | 53             |
| 42     | YELKAR ANJALI RAJENDRA         | 69             |

|                                        |       |
|----------------------------------------|-------|
| Students Attempted                     | 42.00 |
| Average marks                          | 58.52 |
| Number of students above average marks | 5.00  |
| Percentage                             | 11.90 |
| attainment level                       | 1.00  |

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| <b>CO Attainment process:</b>                                                                     |
| a. Attainment Level 1: 40% students scoring more than the average marks                           |
| b. Attainment Level 2: 50% students scoring more than the average marks                           |
| c. Attainment Level 3: 60% students' scoring more than the average marks                          |
| (Note: Faculty can decide the increment in levels considering the complexity of the subject)      |
| Attainment is measured in terms of actual percentage of students getting set percentage of marks. |



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Year / Sem – TE / VICBCGS  
Subject/ Course – Software Engineering (CSC601)

**Course Exit Survey Form**

| Sr. No | Question                                                                                  | CO  | Level of Agreement |               |          |             |          |             |
|--------|-------------------------------------------------------------------------------------------|-----|--------------------|---------------|----------|-------------|----------|-------------|
|        |                                                                                           |     | Excellent(5)       | Very good (4) | Good (3) | Average (2) | Fair (1) | Neutral (0) |
| 1      | Are you able to Identify requirements & assess the process models.                        | CO1 |                    |               |          |             |          |             |
| 2      | Are you able to Plan, schedule and track the progress of the projects.                    | CO2 |                    |               |          |             |          |             |
| 3      | Are you able to Design the software projects.                                             | CO3 |                    |               |          |             |          |             |
| 4      | Are you able to Do testing of software project.                                           | CO4 |                    |               |          |             |          |             |
| 5      | Are you able to Identify risks, manage the change to assure quality in software projects. | CO5 |                    |               |          |             |          |             |



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Year / Sem –TE /VICBCGS  
Subject/ Course –Software Engineering (CSC601)

**Course Exit Survey Form**

| Sr. No | Question                                                                                  | CO  | Level of Agreement |               |          |             |          |             |
|--------|-------------------------------------------------------------------------------------------|-----|--------------------|---------------|----------|-------------|----------|-------------|
|        |                                                                                           |     | Excellent(5)       | Very good (4) | Good (3) | Average (2) | Fair (1) | Neutral (0) |
| 1      | Are you able to Identify requirements & assess the process models.                        | CO1 |                    |               |          |             |          |             |
| 2      | Are you able to Plan, schedule and track the progress of the projects.                    | CO2 |                    |               |          |             |          |             |
| 3      | Are you able to Design the software projects.                                             | CO3 |                    |               |          |             |          |             |
| 4      | Are you able to Do testing of software project.                                           | CO4 |                    |               |          |             |          |             |
| 5      | Are you able to Identify risks, manage the change to assure quality in software projects. | CO5 |                    |               |          |             |          |             |



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Year / Sem – TE / VI CHCGS  
 Subject/ Course – Software Engineering (CSC601)

**Course Exit Survey**

| SR NO | ROLL NUMBER | NAME OF STUDENT                | 1   | 2   | 3   | 4   | 5   |
|-------|-------------|--------------------------------|-----|-----|-----|-----|-----|
|       |             |                                | CO1 | CO2 | CO3 | CO4 | CO5 |
| 1     | 1           | BELOSE OM MAHESH               | 4   | 4   | 4   | 4   | 4   |
| 2     | 2           | BHAGAT SHRIYASH RAVINDRA       | 4   | 4   | 4   | 4   | 4   |
| 3     | 3           | BHOSLE KAR AMOL AJAY           | 5   | 5   | 5   | 5   | 5   |
| 4     | 4           | CHANDORKAR NIDHI ARUN          | 4   | 2   | 3   | 3   | 3   |
| 5     | 5           | CHOGLE FAZEN AKIL              | 4   | 4   | 5   | 3   | 3   |
| 6     | 6           | DANDEKAR DHANSHRI VISHWANIBHAR | 4   | 5   | 3   | 3   | 3   |
| 7     | 7           | DESHIMANDE SAIVEN SUNIL        | 5   | 5   | 5   | 5   | 5   |
| 8     | 8           | DHARVA SAROF PRABHAKAR         | 3   | 3   | 3   | 3   | 3   |
| 9     | 9           | DIWAN BURHAN FAROOQUE          | 4   | 5   | 4   | 4   | 4   |
| 10    | 10          | DOLAN RIVA RAJESH              | 5   | 5   | 5   | 5   | 5   |
| 11    | 11          | FANASHIVA AMAL INTERHABA       | 5   | 5   | 5   | 5   | 5   |
| 12    | 12          | GHOTALE ABHISHEK KIL           | 5   | 5   | 5   | 5   | 5   |
| 13    | 13          | GONJI RIDDHI PRAKASH           | 3   | 3   | 4   | 4   | 2   |
| 14    | 14          | GOTHAL SHAHESH SHASHIKANT      | 4   | 4   | 5   | 4   | 4   |
| 15    | 15          | JADHAV PRANAY ARVIND           | 4   | 4   | 4   | 4   | 4   |
| 16    | 16          | JADHAV ROHIT RAJENDRA          | 4   | 4   | 4   | 4   | 4   |
| 17    | 17          | KADAM OMKAR SANTOSH            | 5   | 5   | 5   | 5   | 5   |
| 18    | 18          | KATOR KRUNAL RAKESH            | 4   | 2   | 3   | 3   | 3   |
| 19    | 19          | KHOPKAR DIKSHA ANI             | 4   | 4   | 5   | 3   | 3   |
| 20    | 20          | KODE AMOL GANESH               | 4   | 5   | 3   | 3   | 3   |
| 21    | 21          | MHATRE RAJAVINASH              | 5   | 5   | 5   | 5   | 5   |
| 22    | 22          | MODIGITESH KAILASH             | 3   | 3   | 3   | 3   | 3   |
| 23    | 23          | NAKTI SIDDHANT DILIP           | 4   | 5   | 4   | 4   | 4   |
| 24    | 24          | NATAI KAR ADITYA PRADEEP       | 5   | 5   | 5   | 5   | 5   |
| 25    | 25          | PATEKAR SAHIT DATARAM          | 5   | 5   | 5   | 5   | 5   |
| 26    | 26          | PATIL HARSHAL DNAYNESHVAR      | 5   | 5   | 5   | 5   | 5   |
| 27    | 27          | PATIL JIDNYASA VIKAS           | 3   | 3   | 4   | 4   | 2   |
| 28    | 28          | PAWAR REENA VISHWAS            | 4   | 4   | 5   | 4   | 4   |
| 29    | 29          | PHAKADE SURAJ POPAT            | 4   | 4   | 4   | 4   | 4   |
| 30    | 30          | PRASAD POOLJA                  | 4   | 4   | 4   | 4   | 4   |
| 31    | 31          | RAIWADEKAR PALLAVI PRAVIN      | 5   | 5   | 5   | 5   | 5   |
| 32    | 32          | SALVI ABHISHEK                 | 4   | 2   | 3   | 3   | 3   |
| 33    | 33          | SANASWARAJ DATTATRAY           | 4   | 4   | 5   | 3   | 3   |
| 34    | 34          | SHAHAPURKAR KASTURI NANDKUMAR  | 4   | 5   | 3   | 3   | 3   |
| 35    | 35          | SHARMA JAYESH DUDHNATH         | 5   | 5   | 5   | 5   | 5   |
| 36    | 36          | SHARMA MANOJ PHOTOSINGH        | 3   | 3   | 3   | 3   | 3   |
| 37    | 37          | SHESHWARE NIRNAY NETAJI NIYATI | 4   | 5   | 4   | 4   | 4   |
| 38    | 38          | SHINDE SARTHAK MAHENDRA        | 5   | 5   | 5   | 5   | 5   |
| 39    | 39          | THASAL ABHISHEK YASHWANT       | 5   | 5   | 5   | 5   | 5   |
| 40    | 40          | WARGE ROHIT SANTOSH            | 5   | 5   | 5   | 5   | 5   |
| 41    | 41          | YADAV SANDEEP ARVINDKUMAR      | 3   | 3   | 4   | 4   | 2   |
| 42    | 42          | YELKAR ANJALI RAJENDRA         | 4   | 4   | 5   | 4   | 4   |

|                                     |       |       |       |       |       |
|-------------------------------------|-------|-------|-------|-------|-------|
| Avg.                                | 4.21  | 4.21  | 4.29  | 4.07  | 3.93  |
| Total No. of Students               | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 |
| No. of students above Average Marks | 36    | 33    | 33    | 30    | 27    |
| % of Students above Average Marks   | 85.71 | 78.57 | 78.57 | 71.43 | 64.29 |
| level                               | 3     | 3     | 3     | 3     | 3     |

| CO Attainment from CES | Level |
|------------------------|-------|
| CO1                    | 3     |
| CO2                    | 3     |
| CO3                    | 3     |
| CO4                    | 3     |
| CO5                    | 3     |

|                                                                                                   |                                                                      |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CO Attainment process:                                                                            |                                                                      |
| a.                                                                                                | Attainment Level 1: 40% students scoring more than the average marks |
| b.                                                                                                | Attainment Level 2: 50% students scoring more than the average marks |
| c.                                                                                                | Attainment Level 3: 60% students scoring more than the average marks |
| Attainment is measured in terms of actual percentage of students getting set percentage of marks. |                                                                      |



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| %CO Attainment for Course HMI          |                                    |      |      |      |      |      |
|----------------------------------------|------------------------------------|------|------|------|------|------|
| Sr. no.                                | CO→                                | CO1  | CO2  | CO3  | CO4  | CO5  |
|                                        | Assesment Method↓                  |      |      |      |      |      |
|                                        | Direct methods (80%)               |      |      |      |      |      |
|                                        | Internal Assesment (20% of Direct) |      |      |      |      |      |
| 1                                      | Test                               | 1.8  | 2.7  | 1.8  | 2.7  | 2.7  |
| 2                                      | Experiment (Journal)               | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| 3                                      | Assignment                         | NA   | NA   | NA   | NA   | NA   |
| 4                                      | Internal oral exam                 | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
|                                        | Avarage of Internal Assessment (A) | 2.60 | 2.90 | 2.60 | 2.89 | 2.89 |
|                                        | External Assesment (80% of Direct) |      |      |      |      |      |
| 1                                      | External oral Exam                 | 3    | 3    | 3    | 3    | 3    |
| 2                                      | University exams(Autonomous)       | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
|                                        | Avarage of External Assessment(B)  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
|                                        | Indirect methods (20%)             |      |      |      |      |      |
| 1                                      | Course Exit Survey(C)              | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| CO attainment=0.16xA + 0.64xB + 0.20*C |                                    | 2.30 | 2.34 | 2.30 | 2.34 | 2.34 |



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% Mapping of COs and POs, PSO's

| CO - PO-PSO's Mapping |              |      |   |   |      |   |   |   |   |    |    |    |      |      |      |
|-----------------------|--------------|------|---|---|------|---|---|---|---|----|----|----|------|------|------|
|                       |              |      |   |   |      |   |   |   |   |    |    |    |      |      |      |
| PO No →               | 1            | 2    | 3 | 4 | 5    | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PSO1 | PSO2 | PSO3 |
| CO ↓                  | % Attainment |      |   |   |      |   |   |   |   |    |    |    |      |      |      |
| 1                     | 2.30         |      |   |   |      |   |   |   |   |    |    |    | 2.30 |      |      |
| 2                     | 2.34         |      |   |   |      |   |   |   |   |    |    |    | 2.34 |      |      |
| 3                     | 2.30         | 2.30 |   |   |      |   |   |   |   |    |    |    | 2.30 | 2.30 |      |
| 4                     | 2.34         |      |   |   | 2.34 |   |   |   |   |    |    |    | 2.34 |      |      |
| 5                     | 2.34         |      |   |   |      |   |   |   |   |    |    |    | 2.34 |      |      |
| PO Attainment         | 2.32         | 2.30 | — | — | 2.34 | — | — | — | — | —  | —  | —  | 2.00 | 2.30 | —    |

