## **SEMESTER LEARNING PLAN (RPS) PROGRAM FOR STUDY S1 BUILDING ENGINEERING EDUCATION DEPARTMENT OF CIVIL ENGINEERING , FACULTY OF T E KNIK , STATE UNIVERSITY OF PADANG**

| COUDSE                                | CODE                             | CDOU   | ID OF COUDSE  | SC                               | J                           | S E    | VERSION     |  |  |  |  |  |
|---------------------------------------|----------------------------------|--|---|----------------------------------|-----------------------------|--------|-------------|--|--|--|--|--|
| COURSE                                | CODE                             | GRUU   | F OF COURSE   | Theory                           | Pract                       | Μ      |             |  |  |  |  |  |
| Plumbing and Sanitation P<br>ractices | SIP1.61.2301                     | Currency Class Ma  | ndatory Program Study                                   | -                                | 4                           | 2      |             |  |  |  |  |  |
| <b>Responsible Lecturer</b>           |                                  |  |   | TTD Lecturer in (                | Charge                      |        |             |  |  |  |  |  |
| Dr. Jonni Mardizal , MM               |                                  |  |   |                                  |                             |        |             |  |  |  |  |  |
| Information                           | Dean of the Fac                  | ulty of Engineering  | Head of<br>the Civil Engineering<br>Department          | K ord. S1 Stue<br>Education Tech | ly Program<br>nical angunan |        |             |  |  |  |  |  |
|                                       |                                  |  |   |                                  |                             |        |             |  |  |  |  |  |
|                                       | <u>Dr. Fahmi R</u><br>NIP 195912 | <u>tizal, M.Pd., MT</u><br>2041985031004   | <u>Faisal Ashar, Ph.D.</u><br>NIP 19 750103 200312 1001 | Drs. Revian B<br>NIP 196 00103   | ody, MSA.<br>198503 1003    |        |             |  |  |  |  |  |
| Graduate Learning Outcome             | es Learning Acl                  | hievement of Graduat   | tes (CPL) Study Programs                                |                                  |                             |        |             |  |  |  |  |  |
|                                       | 1.                               | Being  |   | able                             |                             |        | to app      |  |  |  |  |  |
|                                       | science                          | knowledge (mathem  | natics, natural sciences) and                           | other scientific mul             | tidisciplines that          | t form | t           |  |  |  |  |  |
|                                       | of the E                         | Building Engineering   | Vocational Education field                              | in carrying out prof             | essional work in            | their  | fields (Kno |  |  |  |  |  |
|                                       | and Un                           | and Understanding).  |   |                                  |                             |        |             |  |  |  |  |  |
|                                       | 1.1. Bei                         | ing able   | to point to right unders                                | standing of th                   | e good and impl             | ement  | t the       |  |  |  |  |  |
|                                       | of                               | basic mathematical a   | to solve various problems in                            | the field of enginee             | ring buildings.             |        |             |  |  |  |  |  |
|                                       | 1.2. Ha<br>sci                   | 1.2. Having an understanding that high and can implement the concept of basic physics an <i>sciences</i> ) in the field of engineering buildings . |   |                                  |                             |        |             |  |  |  |  |  |

| <ul> <li>1.3. Having an understanding that high and can implement the principles of basic and engineering (mechanics, image engineering, material science) in the field of engineering buildings.</li> <li>2. Able b erpikir critical and creative in identifying, formulating, problem solving, evaluate various problems in the field of Building Engineering Vocational Education with m of scientific most appropriate and effective (Engineering analysis, investigations and assessment).</li> <li>2.1. Able to identify various technical problems in the field of building engineering 2.2. Able to analyze various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able to evaluate various technical problems in the field of building engineering 2.3. Able</li></ul> |
|---|
| 2.4. Being able to communicate the material <i>Engineering Analysis, Investigation and Assess</i>   |
| the participant students / training .   |
| 3. Having the ability to reli   |
| the design, implementation and supervision of building engineering work <i>(Engineering design)</i> . 3.1. Able to realize working drawings in collaboration with various related parties.  |
| <ul> <li>3.2. Being able to manage the work technique of building with attention to of environmental , social , health , and safety .</li> <li>3.3. Able to oversee the implementation of building engineering work</li> <li>3.4. Being able to communicate the matter <i>Engineeering Design</i> to participant students .</li> </ul>  |
| <ul> <li>4. Having a capability that is reliable in mende science, implement and evaluate the of learning in <i>Building Engineering Vocational Education (Education design)</i>.</li> <li>4.1. Being able to design a curriculum and process pembelaja ran the field of engineering buildings .</li> <li>4.2. Able to implement, control, evaluate and improve the quality of the learning process</li> <li>4.3. Able to develop media learning are effective, efficient, and attractive.</li> <li>4.4. Able to carry out research in the field of education</li> </ul>  |
| 5. Having the ability to adapt and innovate to the development of science and technology and imp<br>it into educational and professional work objectives by considering non- technical risks that may occur <i>(Engine</i><br><i>practice)</i> .  |
| 5.1. Able to innovate and develop techno  |
| the field of building engineering by considering social, economic, and environmental aspects.   |
| 5.2. Able to me nganalisis condition of the environment in the process of planning , implementation , and over<br>the building .  |
| the building .  |

|                                 |   | 1   |
|---------------------------------|---|---|
|                                 | <ul> <li>5.3. Implement technology inform ation and computers into the process of planning, implet the building.</li> <li>6. Having kompe tension social and managerial, beaker ja together, communicate effectibly entrepreneurship, with vision of environment and conscious will be learning throughout life (<i>Transferable and soft skills</i>).</li> <li>6.1. Being able the creative, innovative, collaborative, conscientious, responsible accountable, responsible accountable, responsible accountable, responsible accountable, responsible accountable.</li> </ul> | wentation , superv<br>vely , characterized<br>e the import<br>to wo<br>ponsive to changes |
|                                 | 6.2. Having a sense of want to know, to think critically, mind open, and objective.   |   |
|                                 | 6.3. Being able to communicate it effectively and work together in a <i>team work</i> .   |   |
| <b>Course Learning Outcomes</b> | Learning Achievement Eye Study (CP MK)  |   |
|                                 | СРМК  |   |
|                                 | 1. Mastering the manufacture of roof sanitation equipment, clean water installation<br>and dirty water installation   | 1   |
|                                 | 2 Mastering tek nik basic welding to work building  | 1   |
|                                 | 3 Mastering how to install sanitary ware in a building  | 3   |
|                                 | 4. clean Skillfully translates planning drawings or designs of building utility systems in detail an  | 3   |
|                                 | d calculations  | _   |
|                                 | 5. Mastering the manufacture of pipe wells as a source of water   | 5   |
|                                 | 6. Master the basic techniques of processing and supplying clean water  | 6   |
| Short description               | Eyes This course provides the   | _   |
| oi wi ata K unan                | knowledge Material p r a K I I k p I a m b I n g da n s a nitasi m e I i p uti system pi a moing  |   |
|                                 | in sua t u a building or a complex, which   |   |
|                                 | is associated with penyed 1 aan a 1 r be r anyway, provision  |   |
|                                 | of water hot, tools sanitary and channeling water b uangan; Kete r ampi I a n manufacture   |   |
|                                 | of threaded pipe galvanized and system installation plamb 1 n g, pemas a ngan style t -   |   |
|                                 | tool sanitary ware to the building and skills to  |   |
|                                 | draw pe r encanaan or draft system utility buildings in detail (according ka i dah Gamba r Mech   |   |
|                                 | anical) se c a r a clear and Sisti m ATIS   | _   |
| References                      | Main (RU):  |   |

|                    | 1. Sta  | ndard National Indonesia (SNI) 8153: 2015 on system plumbing in construction of buildings    |  |  |  |  |  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|--|--|--|--|--|--|
|                    | 2. Ba   | bbit, HE (1960. Plambing, (3th.ed), Mc. Graw-Hill Book Company, New York, London,            |  |  |  |  |  |  |  |  |  |  |
|                    | Toronto   |  |  |  |  |  |  |  |  |  |  |  |
|                    | 3. <i>Er</i>  | vi Tahar , Toto Suparta , Agus Helmi . (1997) Fundamentals of Plumbing . Publisher Angkasa , |  |  |  |  |  |  |  |  |  |  |
|                    | Bandung   |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4. <i>Ha</i>  | rsono Wiryosumarto ,   |  |  |  |  |  |  |  |  |  |  |
|                    | Okumura, Toshie . (1981). Metal Welding Technology . PT. Pradnya Paramita , Jakarta       |  |  |  |  |  |  |  |  |  |  |  |
|                    | 5. Rogen, Waren . (1975). Welding, Mc. Graw-Hill Book Company. Sydney, Auckland, New York |  |  |  |  |  |  |  |  |  |  |  |
|                    | Toronto, Johanessburg, Singapore, Mexico, Panama, Tokyo.                                  |  |  |  |  |  |  |  |  |  |  |  |
|                    |   |  |  |  |  |  |  |  |  |  |  |  |
|                    | Supporter   | s (RP)   |  |  |  |  |  |  |  |  |  |  |
|                    | 1. Sai  | nian . (1999) Labsheet of Steel and Welding Practices . UNP Faculty of Engineering , Padang  |  |  |  |  |  |  |  |  |  |  |
|                    | 2. Ma   | urtoyo Askari . (1999). Labsheet , Department of Civil Engineering FT. UNP                   |  |  |  |  |  |  |  |  |  |  |
|                    | 3. <i>Ma</i>  | urtoyo Askari . (1985). Plumbing and Sanitation Las Oxygen-Assetin Series, FPTK IKIP         |  |  |  |  |  |  |  |  |  |  |
|                    | Padang  |  |  |  |  |  |  |  |  |  |  |  |
|                    | 4. <i>Ma</i>  | Iman Suratman. (2001). Welding Techniques for Acetylene,                                     |  |  |  |  |  |  |  |  |  |  |
|                    | Brazing,  | and Electric Arc Welding, Pustaka Grafika, Jakarta   |  |  |  |  |  |  |  |  |  |  |
| Media Pem learn an | Software  | Hardware :   |  |  |  |  |  |  |  |  |  |  |
|                    | :   |  |  |  |  |  |  |  |  |  |  |  |
|                    |   | - Computers, LCD projectors and blackboards and devices                                      |  |  |  |  |  |  |  |  |  |  |
|                    |   | - Equipment and practice materials   |  |  |  |  |  |  |  |  |  |  |
|                    |   | - Tools Patron Self (APD)  |  |  |  |  |  |  |  |  |  |  |
| Teaching Team      | 1.  | Dr., Jonni Mardizal , MM,  |  |  |  |  |  |  |  |  |  |  |
|                    | 2.  | Muvi Yandra , S.Pd , M.Pd.T ,  |  |  |  |  |  |  |  |  |  |  |
|                    | 3.  | Nadra Mutiara Sari, S.Pd. , M.Eng  |  |  |  |  |  |  |  |  |  |  |
|                    | 4.  | Yuwalitas Gusmareta, S.Pd, M.Pd.T  |  |  |  |  |  |  |  |  |  |  |
| Assessment         | Assessmen   | t Continuous ( Continuous assessment ) in accordance jobs are given                          |  |  |  |  |  |  |  |  |  |  |
| Terms Course       | There is no   |  |  |  |  |  |  |  |  |  |  |  |

#### **LEARNING MATERIALS**

| mingg u | Competencies to be achieved   | Study Materials   | Learning Methods and<br>Strategies   | Task / assignment  | Assessment Criteria /<br>Indicators           | Refer e nsi           |
|---------|---|---|--|--|---|-----------------------|
| (1)     | CPMK- 1.1: [CPL1.1]<br>Students are able to explain :<br>1. plambin equipment /<br>material g<br>2. Health and safety at<br>Plambing work   | <ul> <li>General         <ul> <li>equipment and                 work materials                 in plumbing                 work</li> <li>Health and Saf                 ety Work</li> </ul> </li> </ul> | - Explanation<br>of material (1 x 50<br>')<br>- Discussion (2x50 '<br>- Practice (1x50 ')                                | Each student is<br>asked to name the<br>designated<br>equipment and look<br>for the equipment<br>mentioned | Suitability<br>and accuracy<br>of explanation | RU-<br>2 and RU-<br>4 |
| Sunday  | Competencies are about<br>to be reached   | Study Materials   | Learning Methods and<br>Strategies   | Task / assignment  | Assessment Criteria / I<br>ndicators          | Reference             |
| (2)     | CPMK-1.2: [CPL 1.1, 3.1]<br>Students are able to make :<br>1. plate work with a<br>bunch of<br>premises n stained<br>2. connecting plates Sin<br>gle and double folding joi<br>nts<br>3. connecting plates wit<br>h keeling nails | - Explain the<br>usability of<br>the plate<br>connection  | <ul> <li>Explanation<br/>of Material (1x50<br/>')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul>           | Do it according to<br>the given jobsheet   | Work Process and<br>Work Results              | RU-4                  |
| (3)     | CPMK- 1.3: [CPL 1. 1 , 3.1 ]<br>Students are able to make<br>double-angle square pipe<br>joints   | - Double angle<br>pipe<br>joints  | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul> | Do it according to<br>the given jobsheet   | Work Process and<br>Work Results              | RU-4                  |

| (4)    | CPMK-1.4: [CPL 1.1 , 3.1 ]<br>Students are able to make a<br>round corner double pipe<br>joint                   | - Double angle<br>round pipe<br>joints   | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>Work Results    | RU-4         |
|--------|--|--|--|--|-------------------------------------|--------------|
| (5)    | CPMK- 1.5 : [CPL5.1]<br>Students are able to make<br>short installations of<br>galvanized pipes and PVC<br>pipes | - Short open<br>installation   | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results    | RU-1         |
| Sunday | Competencies are about<br>to be reached  | ıdy Materials  | earning Methods and<br>Strategies  | Task / assignment                        | Assessment Criteria /<br>Indicators | Reference    |
| (6)    | CPMK- 1.6 : [CPL5.1]<br>Students are able to make<br>galvanized pipe covered<br>installations                    | - Installation of<br>covered<br>galvanized<br>pipes  | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results    | RU-1         |
| (7)    | CPMK-2.1: [CPL 1.2]<br>Students are able to<br>make welding teeth with<br>Electric welding                       | <ul> <li>Basic techniques<br/>of electric<br/>welding</li> <li>The purpose<br/>of welding</li> </ul> | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ')</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results    | RU-5<br>RP-1 |

| (8)  | <b>CPMK 2.2:</b> [CPL 1.2, 5.1]<br>Students are able to connect<br>the strip plate seam I and<br>connect the elbow strip plate                | - Connecting<br>plates with<br>electric<br>welding               | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ' }</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-5,<br>RP-1 |
|------|---|--|---|--|----------------------------------|---------------|
| (9)  | CPMK 2.3: [CPL1.2, 5.1]<br>Students are able to connect<br>tee plate strips and connect<br>straight steel<br>pipes with electric welding      | - Welding Tee<br>plate and steel<br>pipe                         | - Explanation of<br>Practice<br>Materials (1x50 ')<br>- Working<br>on assignments (3x<br>50 ' }                           | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-5<br>RP-1  |
| (10) | CPMK 2.4: [CPL 1.2, 5.1]<br>Students are able to connect<br>steel pipe<br>angles with electric welding  | - Splicing steel<br>pipe angles                                  | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ' }</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-5<br>RP-1  |
| (11) | CPMK 2.5: [CPL 1.2, 3.2]<br>Students Are Able to Make<br>Welded Lasers with Acetelin<br>Welding Connect the seam<br>plate I with Las Asetelin | - Making welds<br>with acetylene<br>welding                      | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ' }</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-5<br>RP-3  |
| (12) | <b>CPMK 3.1:</b> [CPL 3.1]<br>Students Are Able to Install<br>squatting toilets and sitting<br>toilets  | - Installation of<br>squatting toilets<br>and sitting<br>toilets | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 ' }</li> </ul> | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-1          |
| (13) | CPMK 3. 2 : [CPL3.1]<br>Students are able to install a<br>sink and urinal   | - Installation of<br>sinks and<br>urinals                        | <ul> <li>Explanation of<br/>Practice<br/>Materials (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 '}</li> </ul>  | Do it according to<br>the given jobsheet | Work Process and<br>work results | RU-1          |

| (14)   | CPMK 4 : 1: [CPL 5. 1]<br>Students are able to<br>translate planning drawings<br>or designs of building utility<br>systems in detail and<br>calculations | - Building utility<br>system<br>planning  | <ul> <li>Explanation<br/>of Practice Materia<br/>ls (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 '}</li> </ul> | Do it according to the given jobsheet          | Work Process and<br>work results    | RU-1      |
|--------|--|---|---|--|-------------------------------------|-----------|
| (15)   | CPMK 5 .1: [CPL 3 .1]<br>Students are able to make<br>pipe wells   | - Management of<br>groundwater<br>sources | <ul> <li>Explanation<br/>of Practice Materia<br/>ls (1x50 ')</li> <li>Working<br/>on assignments (3x<br/>50 '}</li> </ul> | Do it according to<br>the jobsheet you<br>gave | Work Process and<br>work results    | RU-4      |
| Sunday | Competencies are about<br>to be reached  | ıdy Materials                             | earning Methods and St<br>rategies  | Task / assignment                              | Assessment Criteria /<br>Indicators | Reference |
| (16)   | CPMK 6.1: [CPL 6.1]<br>Students understand<br>the principles<br>of basic provision<br>of water clean   | - Provision of clea<br>n water            | - Explanation<br>of Material (2x<br>100 ')<br>- Practice (2x100)  | Do<br>it according to the g<br>iven jobsheet   | Work Process and<br>work results    | RU-1      |

# The linkage of CPMK with CPL and Method A of the process

| SIP1.61.2301 | Assessment   | Weight |   | CPL-1 |   | CPL-2 |   |   |   | CP | L- 3 |   | CPL-4 |   |   |   | CPL-5 |   |   | CPL-6 |   |   |   |
|--------------|--------------|--------|---|-------|---|-------|---|---|---|----|------|---|-------|---|---|---|-------|---|---|-------|---|---|---|
|              | Assessment   | (%)    | 1 | 2     | 3 | 1     | 2 | 3 | 4 | 1  | 2    | 3 | 4     | 1 | 2 | 3 | 4     | 1 | 2 | 3     | 1 | 2 | 3 |
| CPMK 1.1     | Jobsheet 01  | 5      | V |       |   |       |   |   |   | V  |      |   |       |   |   |   |       |   |   |       |   |   |   |
| CPMK 1.2     | Jobsheet 0 2 | 5      | V |       |   |       |   |   |   | V  |      |   |       |   |   |   |       |   |   |       |   |   |   |
| CPMK 1.3     | Jobsheet 0 3 | 5      | V |       |   |       |   |   |   | V  |      |   |       |   |   |   |       |   |   |       |   |   |   |
| CPMK 1.4     | Jobsheet 0 4 | 5      | V |       |   |       |   |   |   | V  |      |   |       |   |   |   |       |   |   |       |   |   |   |
| CPMK 1.5     | Jobsheet 0 5 | 5      |   |       |   |       |   |   |   |    |      |   |       |   |   |   |       | V |   |       |   |   |   |
| CPMK 1.6     | Jobsheet 0 6 | 5      |   |       |   |       |   |   |   |    |      |   |       |   |   |   |       | V |   |       |   |   |   |
| CPMK 2.1     | Jobsheet 0 7 | 5      |   | V     |   |       |   |   |   |    |      |   |       |   |   |   |       |   |   |       |   |   |   |
| CPMK 2.2     | Jobsheet 0 8 | 7.5    |   | V     |   |       |   |   |   |    |      |   |       |   |   |   |       | V |   |       |   |   |   |
| CPMK 2.3     | Jobsheet 0 9 | 7.5    |   | V     |   |       |   |   |   |    |      |   |       |   |   |   |       | V |   |       |   |   |   |

| CPMK 2.4 | Jobsheet 10  | 7.5 | V |  |  |   |   |  |  |  | V |  |   |  |
|----------|--------------|-----|---|--|--|---|---|--|--|--|---|--|---|--|
| CPMK 2.5 | Jobsheet 1 1 | 7.5 | V |  |  |   | V |  |  |  |   |  |   |  |
| CPMK 3.1 | Jobsheet 1 2 | 5   |   |  |  | V |   |  |  |  |   |  |   |  |
| CPMK 3.2 | Jobsheet 1 3 | 5   |   |  |  | V |   |  |  |  |   |  |   |  |
| CPMK 4.1 | Jobsheet 1 4 | 5   |   |  |  |   |   |  |  |  | V |  |   |  |
| CPMK 5.1 | Jobsheet 1 5 | 5   |   |  |  | V |   |  |  |  |   |  |   |  |
| CPMK 6.1 | Jobsheet 16  | 5   |   |  |  |   |   |  |  |  |   |  | V |  |
|          |              |     |   |  |  |   |   |  |  |  |   |  |   |  |
| Presence |              | 10  |   |  |  |   |   |  |  |  |   |  |   |  |
| TOTAL    |              | 100 |   |  |  |   |   |  |  |  |   |  |   |  |

#### Components Pénil a his n

Midterm Exams : .. %

Final Semester Exams : .. %

Assignment : .. %

Attendance : .. %

Total : 100%

## Description Level P eni Laian

|             | Excellent | Good | Satisfy | Fail |
|-------------|-----------|------|---------|------|
| Description |           |      |         |      |
| Formulation |           |      |         |      |
| Calculate   |           |      |         |      |
| Analysis    |           |      |         |      |

## Scoring system

| Score   | Quality<br>Rating | Quality Score | Quality Mention  | Score        | Quality<br>Rating | Quality Score | Quality Mention |
|---------|-------------------|---------------|------------------|--------------|-------------------|---------------|-----------------|
| 85-100  | А                 | 4.0           | With compliments | 55 - 59      | С                 | 2.0           | Enough          |
| 80-84   | I-                | 3.6           | Very very good   | 50-54        | C-                | 1.6           | Not enough      |
| 75 - 79 | B +               | 3.3           | Very well        | 40 - 49      | D                 | 1.0           | Less            |
| 70-74   | В                 | 3.0           | Well             | ≤ <b>3</b> 9 | Е                 | 0.0           | Failed          |
| 65-69   | В-                | 2.6           | Pretty good      | -            | Т                 | -             | Delayed         |
| 60-64   | C +               | 2.3           | More than enough |              |                   |               |                 |

Note : Jobsheet in a separate file