



HIGHER EDUCATION SCIENCE AND TECHNOLOGY

Internship Logbook



Student Name: MULABBI GERALD S

IP17KYU/65/J6

KYAMBOGO UNIVERSITY

Month: 2

Target	Achievements	Challenges	Lessons Learnt
WEEK 1 <ol style="list-style-type: none"> Setting out of an extension building. Excavation for column bases. Blinding of column bases. Installation of spacer blocks. 	<ol style="list-style-type: none"> Setting out was perfectly done with help of the Engineer. Column bases were excavated 1.5m deep using manual labour. Mass concrete for blinding layer was mixed and casted after excavation was completed. Vibration of casted concrete by use of vibrators and curing. 	<ol style="list-style-type: none"> Communication problem as most of the workers at the site use Luganda as a means of communication. The space left for construction of the extension building was small such that the plan was not fitting onto the ground, therefore some adjustments had to be made. 	<ol style="list-style-type: none"> How best to assemble both steel and timber formwork for columns. Where speed of construction is key, steel can be used in such situations. Plumbing of columns to achieve the required verticality. While as steel formwork is rigid to same dimensions, timber formwork can be used where different column sizes are required.e.g steel columns were used to cast only columns of 400X400, timber for both 300X300 & 400X400mm columns.
WEEK 2 <ol style="list-style-type: none"> Fixing of reinforcement into column bases. Fixing of starter bars to the footing reinforcement. Making of formwork to sides of column footing. Casting of the column footing. 	<ol style="list-style-type: none"> Spacer blocks were made on site in mixes of 1:1 c/s. They provide a space between the reinforcement and blinding below. After installation of spacers, reinforcement is placed on top of the spacers. Starter bars are then fixed to the net reinforcement using binding wire. 	<ol style="list-style-type: none"> There was a problem associated with improper vibration of concrete during casting of footing due to presence of reinforcement. 	<ol style="list-style-type: none"> Procedure for setting up formwork for a beam. The material for formwork had weakened following excessive use. Used formwork (props in particular) can't match the floor to roof height of different buildings.

<p>WEEK 3</p> <ol style="list-style-type: none"> 1. Murram filling of internal space and compaction. 2. Kicker installation for future column 3. Joining of steel reinforcement with kickers for future columns. 4. Erection of timber formwork for columns. 	<ol style="list-style-type: none"> 1. Murram was carried from a place on site where excavation for septic tank was being done. 2. The murram was well compacted using a poker vibrator to a level surface. 3. Timber pieces were used to make formwork for columns. 	<ol style="list-style-type: none"> 1. During erecting of formwork, the nails used were old and thus kept on bending, also some timber pieces had shrunk and were not very straight causing imperfections. 	<ol style="list-style-type: none"> 1. How to compact murram using a poker vibrator in order to obtain a level surface. 2. Understanding how installation of kicker is done was also a bid lesson.
<p>WEEK 4</p> <ol style="list-style-type: none"> 1. Erection of 4X2 runner pieces for beam formwork. 2. Fixing boards for beam soffit formwork. 3. Erection of formwork for 1st floor slab. 4. Fixing of reinforcement for 1st floor slab and beams. 	<ol style="list-style-type: none"> 1. The runners were made from 4"x2" timber pieces, nailed to column and supported by props. 2. 4"x2" crosses were nailed to support the runners horizontally, 12"x1" boards were nailed to act as soffit formwork for the beams. 3. Reinforcement for the beams was made from T20 bars tied with T6 links. 	<ol style="list-style-type: none"> 1. Some of the 12"x1" boards used had shrunk and warped due to excessive drying. 2. Presence of reinforcements caused imperfections during vibration of concrete. 3. Segregation of the concrete as it was poured through a greater height. 4. Nails used also kept on bending. 	<ol style="list-style-type: none"> 1. Erection of formwork for a slab was the new lesson learnt it was great as I fully understood it.

Supervisors Comment :..... He is a promising student who likes explaining more

Signature:..... Ali

