

## CHAPTER V CONCLUSION AND RECOMMENDATION

### 5 Conclusion

From the results of this research on bioactivity and corrosion on Ti-12 Cr, the conclusions that can be drawn are:

1. Ti-12Cr material is a bioactive material, this is caused by the growth of tapered hydroxyapatite cells that have been soaked in simulated body fluid.
2. The hydroxyapatite covers the surface of Ti-12 from corrosion attack. The longer immersion times of the coated Ti-12Cr in SBF, the more hydroxyapatite will be tapered.
3. Uncoated Ti-12Cr was corroded in SBF and the longer the titanium is immersed, the more weight loss occurs.

### 5.2 Recommendation

It is recommended for further research to calculate the thickness of the hydroxyapatite layer. Make sure the surface of the test object is as clean and smooth as possible, because it will affect the hydroxyapatite adhesion, corrosion process and corrosion rate of the test object.