**BBS 3201 Chemotherapeutic Agents and Antimicrobial Resistance**

**Course description**

This course covers chemotherapeutic agents with their major classifications. It also deals with the antimicrobial resistance

 The course involves tutorials, lectures and seminars.

**Course Objectives**

To describe chemotherapy, chemotherapeutic agents

To out line the major classes of chemotherapeutic agents.

Explain the definitive mechanisms of action of

 Antimicrobial agents

 Antineoplasticl agents

To describe the principles and treatment schemes when choosing chemotherapeutic agents

To outline measures to be taken to minimise microbial resistance to chemotherapy

**Course outline:**

Key definitions; Chemotherapy: Chemotherapeutic agents, Microbes; Neoplastic; Antibiotics; Microbial resistance.

 Antimicrobial agents-a general consideration,

 History, Definition & characteristics, classification & mechanism Chemotherapy of Neoplastic Diseases;-Antineaplastic agents, Alkylating agents, Antimetabolites, Natural Products, Hormones and antagonists, Miscellaneous agents.

Chemotherapy of Protozoa infections, Chemotherapy of Bacterial infections.

Chemotherapy of viral infections, Chemotherapy of fungal infections.

**Course coordinator**

Prof. Paul Waako

**Requirements**

60 contact hours equivalent to 4 CU

**Mode of assessment**

Progressive assessment 40%

End of Semester exam 60%.

**Reading materials**

1. [Goodman and Gilman's pharmacological basis of therapeutics: /](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101809571219106&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=4&u1=4&t1=Goodman%20and%20Gilman%27s%20%20pharmacological%20basis%20of%20therapeutics%3a%20%20%2f&pos=1&prevpos=1&beginsrch=1)[New York : MacGraw-Hill , 1996](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101809571219106&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=New%20York%20%3a%20MacGraw-Hill%20,%201996&pos=1&prevpos=1&beginsrch=1)

2. Basic and clinical pharmacology/[New York : MacGraw-Hill , 2002](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101809571219106&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=New%20York%20%3a%20MacGraw-Hill%20,%201996&pos=1&prevpos=1&beginsrch=1)

3. Pharmacology/Churchill and livingstone, 2002

4. Clinical pharmacology/ Curchill and livingstone, 2002