

جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Non destructive tests                                      |                |                                     |           |                 | Code     | PRE 601       |
|---|----------------|-------------------------------------|-----------|-----------------|----------|---------------|
| Department offering   |                | Prod. Eng. & Mech.<br>Design. Dept. |           | Level           | Diploma  |               |
| Programme on which the course is given                                  |                |                                     |           |                 |          |               |
| Department(s) offering the program                                      |                |                                     |           |                 |          |               |
| Academic year   | 2013 / 2014    | A                                   | D         | Semester        | ( )Fir   | st, (V)Second |
| Start data / 2/   | 2014 AD        | )                                   | End do    | ate             | / (      | 5 /2014 AD    |
| A strict torrelate borres   | Lecture        | Tı                                  | utorial   | Lab.            |          | Total         |
| Actual taught hours   | 3              | -                                   |           | -               | 3        |               |
| Are there any differe   | nce between    | these f                             | igures a  | and those sp    | ecified  | ?             |
| () Yes, $(V)$ No.   | , If yes, plea | ise giv                             | e the red | asons:          |          |               |
| 1   |                |                                     |           |                 |          |               |
| 2)  |                |                                     |           |                 |          |               |
| 3)  |                | -                                   |           |                 |          |               |
| Names of Lectures contributing to 1) Introduction and visual inspection |                |                                     |           |                 |          |               |
| the delivery of the course.   |                | 2)                                  | Magnet    | ic particles in | spection | ,             |
| the delivery of the course.   |                | 3)                                  | Eddy cu   | irrent inspect  | ions.    |               |
|   |                | 1)                                  | Drof D    | r Forulzio cor  | noo Dom  | odon          |
| Members of course examination   |                |                                     | 1 '       |                 |          |               |
| committee. 2) Dr.badr abdelbary   |                |                                     |           |                 |          |               |
| 3) Dr.Khalid Khedr  |                |                                     |           |                 |          |               |
| Dates of meeting of course examination committee.                       |                |                                     |           |                 |          |               |
| Course coordinator Prof. Dr. Fawkia gomaa Ramadan                       |                |                                     |           |                 |          |               |
| External evaluator  |                |                                     |           |                 |          |               |
| Bacinal evaluator   |                |                                     |           |                 |          |               |



B) Statistical Information

| No. of   | students sta  | arting the | course       | No           | o. of :  | stude | nts com | pleting      | g the c | ourse |
|--|---|------------|--------------|--------------|----------|-------|---------|--------------|---------|-------|
| 4  |   |            | _            | 4            |          |       |         |              |         |       |
| Results of                                     | completing  | students   | Passed       | <i>No.</i> % | 4<br>100 | )     | Failed  | <i>No.</i> % | 0       |       |
| Grading of completing students (of total pass) |   |            |              |              |          |       |         |              |         |       |
| Excellent                                      | No.   | Very       | <i>No.</i> % | God          | od -     | No.   |         | Pass         | No.     |       |
| 2.000000                                       | %   | Good       | %            |              |          | %     |         | 1 0,00       | %       |       |
| Are the gr                                     | Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |            |              |              |          |       |         |              |         |       |
| 1)   |   |            |              |              |          |       |         |              |         |       |
| 2)   |   |            |              |              |          |       |         |              |         |       |
| 3)   |   |            |              |              |          |       |         |              |         |       |

| 1) Course teaching 85%  |
|---|
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{\ }$ ) < $100\%$                                     |
| If the percentage is less than 100%, please give reasons for not teaching any topic:  |
| 1) Lack in experimental tests related to the subject  |
| 2) Environmental conditions   |
| (3)   |
| Referring to the course specification, please list any ILO's specified but not taught.                                      |
| 1) C-4) Define, plan, analyze, and solve the engineering problems to reach conclusions and compare the results with others. |
|   |
| $  2\rangle$  |
| $\parallel 3)$  |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3) Teaching and Learning Methods: (please check $\sqrt{}$ or |
|--|
|--|



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training |   | Class activity        | X      |
| Laboratory         |   | Case Study            |        |
| Seminar            |   | Other assignments/hon | ıework |

| 4) Facilities and Teaching Materials : please check $$ |          |                   |                            |  |  |  |
|--|----------|-------------------|----------------------------|--|--|--|
| Totally adequate                                       |          |                   |                            |  |  |  |
| Adequate to some extent                                | V        |                   |                            |  |  |  |
| Inadequate   |          |                   |                            |  |  |  |
| Reasons of your choice: please check $$                |          |                   |                            |  |  |  |
| ( )academic staff                                      | ( )no    | n- academic staff | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $lc$ | aboratories       | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |  |
|--|-----------------------------|---------|--|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |  |
|  |                             |         |  |  |  |  |
|  |                             |         |  |  |  |  |
|  |                             |         |  |  |  |  |

| 9) Action Plan For Academic Year | 20 /20 AD       |                    |
|----------------------------------|-----------------|--------------------|
| Action required                  | Completion date | Person responsible |
|                                  |                 |                    |
|                                  |                 |                    |
|                                  |                 |                    |

Course coordinator

Prof. Dr. Fawkia gomaa Ramadan



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

|   | Course Title Elasticity and plasticity   Code   PRE 604 |         |  |            |       |          |                         |
|---|---|---------|--|------------|-------|----------|-------------------------|
| j   |   |         | . O N  | <b>7</b> 1 |       | Level    | PRE 604                 |
| Department offering                               |   |         | Prod. Eng. & Mech.<br>Design. Dept.  |            |       |          | Diploma                 |
| Programme on which                                | the course i  | s giver | $\eta$   |            |       |          |                         |
| Department(s) offering                            | g the progra  | ımme    |  |            |       |          |                         |
| Academic year 2                                   | 2013 / 2014   | A       | D  | Seme       | ster  | ( )Fi    | rst, (V)Second          |
| Start data / 2/2                                  | 2014 AD   |         | End do   | ate        |       | /        | 6 /2014 AD              |
| A - 4 1 4 1 4 1                                   | Lecture   | Tı      | ıtorial  |            | Lab.  |          | Total                   |
| Actual taught hours                               | 3   | -       |  | -          |       |          | 3                       |
| Are there any differen                            | ice between   | these f | igures a   | nd tho     | se sp | pecified | !?                      |
| ( )Yes, ( V ) No.                                 | , If yes, plea  | se giv  | e the red  | asons:     |       |          |                         |
| 1   |   |         |  |            |       |          |                         |
| 2)  |   |         |  |            |       |          |                         |
| 3)  |   |         |  |            |       |          |                         |
| Names of Lectures co                              | ntrihuting ta   | 1)      | 1) Introduction to theory of elasticity  |            |       |          |                         |
| the delivery of the co                            | U   | 2)      |  |            |       |          | rsion by direct integra |
| ine detivery of the co.                           | se.   |         | Stress and strain functions,   |            |       |          |                         |
|   |   | 3)      | 3) Plastic stress-strain relationships, Slip lines, Upper as lower bounding theories, numerical methods. |            |       |          |                         |
|   |   |         | as lowe  | i bound    | nng u | icorics, | iumenear memous.        |
| Manufacture                                       |   | 1)      | 1) Prof. Dr. Mahmoud Abo-Elkhier   |            |       |          |                         |
| Members of course examination                     |   | 2)      |  |            |       |          |                         |
| committee.  |   |         |  |            |       |          |                         |
| 3)  |   |         |  |            |       |          |                         |
| Dates of meeting of course examination committee. |   |         |  |            |       |          |                         |
| Course coordinator                                | Prof. Dr. Ma  | hmoud   | Abo-Elk  | hier       |       |          |                         |
| External evaluator                                |   |         |  |            |       |          |                         |



B) Statistical Information

| D) Siausiicai Injoinii  | attori |        |     |                                       |         |      |     |  |
|---|--------|--------|-----|---------------------------------------|---------|------|-----|--|
| No. of students starting the course   |        |        |     | No. of students completing the course |         |      |     |  |
| 1   |        |        | 1   |                                       |         |      |     |  |
| Dageller of accordation   |        | Danaal | No. | 1                                     | Enil of | No.  | 0   |  |
| Results of completing students  |        | Passea | %   | 100                                   | Failed  | %    | 0   |  |
| Grading of completing students (of total pass)                              |        |        |     |                                       |         |      |     |  |
| Excellent No.   | Very 1 | No.    | Go  | nd No.                                |         | Pass | No. |  |
| Excellent %   | Good   | %      |     | %                                     |         | uss  | %   |  |
| Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |        |        |     |                                       |         |      |     |  |
| 1)  |        |        |     |                                       |         |      |     |  |
| 2)  |        |        |     |                                       |         |      |     |  |
| 3)  |        |        |     |                                       |         |      |     |  |

C) Professional Information

| 1) Course teaching 85%  |  |  |  |  |  |
|---|--|--|--|--|--|
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{}$ ) < $100\%$                                       |  |  |  |  |  |
| If the percentage is less than 100%, please give reasons for not teaching any topic:  |  |  |  |  |  |
| 1) Lack in experimental tests related to the subject  |  |  |  |  |  |
| 2) Environmental conditions   |  |  |  |  |  |
| 3)  |  |  |  |  |  |
| Referring to the course specification, please list any ILO's specified but not taught.                                      |  |  |  |  |  |
| 1) C-4) Define, plan, analyze, and solve the engineering problems to reach conclusions and compare the results with others. |  |  |  |  |  |
|   |  |  |  |  |  |
| 2)  |  |  |  |  |  |
| 3)  |  |  |  |  |  |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

محافظة المنوفية \_ شبين الكوم \_ ش جمال عبد الناصر ت : 048/2220395 \_ فاكس : 048/2235695 \_ فاكس : 048/2235695 \_ Menofiya — Shebin El-Koom — Gamal abd el naser st,

Tel / 048-2220395 — fax : 048-2235695



# جامعة المنوفية كلية الهندسة بشبين الكوم

| 3) Teaching and Learning     | Methods                                    | s:( pl  | ease check √              | O     | r X)             |           |
|------------------------------|--|---------|---------------------------|-------|------------------|-----------|
| Lectures                     |  |         | Work Shop                 |       |                  |           |
| Practical Training           |  |         | Class activi              | ity   |                  | X         |
| Laboratory                   |  |         | Case Study                |       |                  |           |
| Seminar                      |  |         | Other assig               | nme   | ents/homework    |           |
|                              |  |         |                           |       |                  |           |
| 4) Facilities and Teaching   | Material                                   | s : ple | ease check √              | ,     |                  |           |
| Totally adequate             |  |         |                           |       |                  |           |
| Adequate to some extent      | V  |         |                           |       |                  |           |
| Inadequate                   |  |         |                           |       |                  |           |
| Rea                          | sons of y                                  | our c   | hoice: please             | che   | eck √            |           |
| ( )academic staff            |  |         | demic staff               |       | teaching acco    | mmodation |
| (V ) library                 | V ) $la$                                   | borat   | ories                     | (     | ) IT facility    |           |
|                              |  |         |                           |       |                  |           |
| 5) Administrative Constrain  |  |         |                           |       |                  |           |
|                              |  |         |                           |       |                  |           |
|                              |  |         |                           |       |                  |           |
| 6) Student evaluation of Co  |  |         | Comme                     | nts o | of Course Team   |           |
|                              | 1,   |         |                           |       |                  |           |
|                              | 2,   |         |                           |       |                  |           |
|                              | 3,   | )       |                           |       |                  |           |
|                              | - 1  | ( )     |                           |       | 1 G F            |           |
| 7) Comment For External 1    | Evaluato                                   | r(s)    |                           | nme   | ents of Course T | eam       |
| 1)                           |  |         | 1)                        |       |                  |           |
| 2)                           |  |         | 2)                        |       |                  |           |
| 3)                           |  |         | 3)                        |       |                  |           |
|                              |  |         |                           |       |                  |           |
| 8) Course Enhancement        |  |         |                           |       |                  |           |
| Progress on actions identifi | ied in the                                 |         |                           |       |                  |           |
| Action                       |  |         | Completed ( $\sqrt{or}$ ) |       | Reasc            | ons       |
|                              |  |         |                           |       |                  |           |
|                              |  |         |                           |       |                  |           |
|                              |  |         |                           |       |                  |           |
|                              |  |         |                           |       |                  |           |
| 9) Action Plan For Academ    | 9) Action Plan For Academic Year 20 /20 AD |         |                           |       |                  |           |
| Action required              |  | Cor     | npletion date             | ?     | Person resp      | ponsible  |
|                              |  |         |                           |       |                  |           |



جامعة المنوفية كلية الهندسة بشبين الكوم

Course coordinator
Prof. Dr. Mahmoud Abo-Elkhier



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Finite element method  |                |          |  |             | Code      | PRE 605       |  |
|---|----------------|----------|--|-------------|-----------|---------------|--|
| Department offering the course Design. Dept.  |                |          |  | Iech.       | Level     | Diploma       |  |
| Programme on which  | the course     | is giver | $\overline{n}$                                 |             |           |               |  |
| Department(s) offerin   | ig the progr   | amme     |  |             |           |               |  |
| Academic year 2   | 2013 / 2014    | A        | D  | Semester    | ( )Fir    | st, (V)Second |  |
| Start data / 2/2  | 2014 AL        | )        | End de   | ate         | / (       | 6 /2014 AD    |  |
| A strict torrelate leaving  | Lecture        | $T\iota$ | ıtorial  | Lab         |           | Total         |  |
| Actual taught hours   | 3              | -        |  | -           | 3         | }             |  |
| Are there any differer  | ice between    | these f  | igures a                                       | and those s | pecified  | ?             |  |
| () Yes, $(V)$ No.   | , If yes, plea | ase giv  | e the red                                      | asons:      |           |               |  |
| 1   |                |          |  |             |           |               |  |
| 2)  |                |          |  |             |           |               |  |
| 3)  |                |          |  |             |           |               |  |
| Names of Lectures co  | ntributing t   | (0,1)    | 1) Concept of finite element method            |             |           |               |  |
| the delivery of the cou   | _              | 2)       | 2) Applications to heat transfer               |             |           |               |  |
| ine delivery of the col   |                | 3)       | 3) Fluid mechanics and mechanics of rigid body |             |           |               |  |
|   |                | 1)       | D C. D.  | 1           | A 1 T211- |               |  |
| Members of course ex  | camination     | 1)<br>2) | 1) Prof. Dr. Mahmoud Abo-Elkhier               |             |           |               |  |
| committee.  |                |          |  |             |           |               |  |
| 2)  |                |          |  |             |           |               |  |
|   |                |          |  |             |           |               |  |
| Dates of meeting of course examination committee.  Course coordinator   Prof. Dr. Mahmoud Abo-Elkhier |                |          |  |             |           |               |  |
| Course coordinator  | F101. DI. M    | aiiiiouu | AUU-EIK  | THEI        |           |               |  |
| External evaluator  |                |          |  |             |           |               |  |



B) Statistical Information

| No. of   | No. of students starting the course |              |              |        | No. of students completing the course |             |              |              |
|--|-------------------------------------|--------------|--------------|--------|---------------------------------------|-------------|--------------|--------------|
| 4  |                                     |              |              | 3      |                                       |             |              | 2            |
| Results of                                     | completing s                        | students     | Passed       | No. 3  | 75                                    | Failed      | <i>No.</i> % | 1<br>25      |
| Grading of completing students (of total pass) |                                     |              |              |        |                                       |             |              |              |
| Excellent                                      | <i>No.</i> %                        | Very<br>Good | <i>No.</i> % | Good   | No. %                                 |             | Pass         | <i>No.</i> % |
| Are the gr<br>1)<br>2)<br>3)                   | ades accepto                        | uble? (      | ) Yes, ( )   | No. If | no, plea                              | ise give ti | he rec       | isons.       |

| 1) Course teaching 85%  |
|---|
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{}$ ) < $100\%$                                       |
| If the percentage is less than 100%, please give reasons for not teaching any topic:  |
| 1) Lack in experimental tests related to the subject  |
| 2) Environmental conditions   |
| (3)   |
| Referring to the course specification, please list any ILO's specified but not taught.                                      |
| 1) C-4) Define, plan, analyze, and solve the engineering problems to reach conclusions and compare the results with others. |
|   |
|   |
| 3)  |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3             | ) Teaching   | and Learning | <i>Methods</i> : ( | please check √   | or | X)           |
|---------------|--------------|--------------|--------------------|------------------|----|--------------|
| $\mathcal{L}$ | , I cacining | and Learning | memous.            | prease effects v | OI | <b>4 1 1</b> |



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |       |
|--------------------|---|-----------------------|-------|
| Practical Training |   | Class activity        | X     |
| Laboratory         |   | Case Study            |       |
| Seminar            |   | Other assignments/hom | ework |

| 4) Facilities and Teaching Materials : please check $$ |                        |  |                            |  |  |
|--|------------------------|--|----------------------------|--|--|
| Totally adequate                                       |                        |  |                            |  |  |
| Adequate to some extent                                | V                      |  |                            |  |  |
| Inadequate   |                        |  |                            |  |  |
| Reasons of your choice: please check $$                |                        |  |                            |  |  |
| ( )academic staff                                      | ( )non- academic staff |  | (V )teaching accommodation |  |  |
| (V ) library   | V ) laboratories       |  | ( ) IT facility            |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |  |
|--|-----------------------------|---------|--|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |  |
|  |                             |         |  |  |  |  |
|  |                             |         |  |  |  |  |
|  |                             |         |  |  |  |  |

| 9) Action Plan For Academic Year | 20 /20 AD       |                    |
|----------------------------------|-----------------|--------------------|
| Action required                  | Completion date | Person responsible |
|                                  |                 |                    |
|                                  |                 |                    |
|                                  |                 |                    |

Course coordinator

Signature

Prof. Dr. Mahmoud Abo-Elkhier



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Forn                        | ning theory                                       |             |                        |                  | Code          | PRE 606    |  |
|--|---|-------------|------------------------|------------------|---------------|------------|--|
| Department offering the course Design.   |   |             |                        | Iech.            | Level         | Diploma    |  |
| Programme on which t                     | Programme on which the course is given            |             |                        |                  |               |            |  |
| Department(s) offering the programme     |   |             |                        |                  |               |            |  |
| Academic year 2013/2014 AD               |   |             | Semester               | ( )Fir           | st, (V)Second |            |  |
| Start data / 2/20                        | Start data / 2/2014 AD End de                     |             |                        | ate              | / (           | 5 /2014 AD |  |
| A stual taught hours                     | Lecture   | $T\iota$    | ıtorial                | Lab.             |               | Total      |  |
| Actual taught hours $\frac{1}{3}$        | }   | -           |                        | -                | 3             | •          |  |
| Are there any difference                 | ce between  | these f     | igures a               | and those sp     | pecified      | ?          |  |
| () Yes, $(V)$ No.,                       | If yes, plea                                      | ase give    | e the red              | asons:           |               |            |  |
| 1  |   |             |                        |                  |               |            |  |
| 2)                                       |   |             |                        |                  |               |            |  |
| 3)                                       |   |             |                        |                  |               |            |  |
| Names of Lectures con                    | tributing to                                      | $_{2}$ $1)$ |                        | g loads and s    | tresses       |            |  |
| the delivery of the course.              |   | 2)          |                        |                  |               |            |  |
|  |   | 3)          | 3) Extrusion pressures |                  |               |            |  |
|  |   | 1)          | Drof D                 | r. ahmed el-s    | iai           |            |  |
| Members of course examination committee. |   | 1)          | F101. D                | i. aiiiiieu ei-s | 181           |            |  |
|  |   | 2)          |                        |                  |               |            |  |
|  | 3)  |             |                        |                  |               |            |  |
| Dates of meeting of co                   | Dates of meeting of course examination committee. |             |                        |                  |               |            |  |
| Course coordinator                       | Prof. Dr. ah                                      |             |                        |                  |               |            |  |
| External evaluator                       |   |             |                        |                  |               |            |  |



B) Statistical Information

|  | students sta |              | course       | N     | $\frac{1}{2}$ | stude        | nts com   | nletin | o the co     | urse   |
|--|--------------|--------------|--------------|-------|---------------|--------------|-----------|--------|--------------|--------|
| 3  |              | rung me      |              | 3     | <i>y</i> . oj | Silvac       | Tus comp  |        | 5 1110 00    | vii se |
| Results of                                     | completing s | students     | Passed       | No. % | 3<br>100      | 9            | Failed    | No. %  | 0            |        |
| Grading of completing students (of total pass) |              |              |              |       |               |              |           |        |              |        |
| Excellent                                      | <i>No.</i>   | Very<br>Good | <i>No.</i> % | Goo   | od -          | <i>No.</i> % |           | Pass   | <i>No.</i> % |        |
| Are the gr<br>1)<br>2)<br>3)                   | ades accepto |              |              |       | If no         | o, plea      | se give t | he red | asons.       | 1      |

| - / - · · · · · · · · · · · · · · · · ·   |
|---|
| 1) Course teaching 85%  |
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{}$ ) < $100\%$                                       |
| If the percentage is less than 100%, please give reasons for not teaching any topic:  |
| 1) Lack in experimental tests related to the subject  |
| 2) Environmental conditions   |
| (3)   |
| Referring to the course specification, please list any ILO's specified but not taught.                                      |
| 1) C-4) Define, plan, analyze, and solve the engineering problems to reach conclusions and compare the results with others. |
| $\begin{pmatrix} 2 \\ 3 \end{pmatrix}$  |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3) Teaching and Learning Methods: (please check $\vee$ or X | 3 | ) Teaching | and Learning | <i>Methods</i> : ( | please check √ | or | X |
|---|---|------------|--------------|--------------------|----------------|----|---|
|---|---|------------|--------------|--------------------|----------------|----|---|



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training |   | Class activity        | X      |
| Laboratory         |   | Case Study            |        |
| Seminar            |   | Other assignments/hon | ıework |

| 4) Facilities and Teaching Materials : please check $$ |                        |             |                            |  |  |  |
|--|------------------------|-------------|----------------------------|--|--|--|
| Totally adequate                                       |                        |             |                            |  |  |  |
| Adequate to some extent                                | V                      |             |                            |  |  |  |
| Inadequate   |                        |             |                            |  |  |  |
| Reasons of your choice: please check $$                |                        |             |                            |  |  |  |
| ( )academic staff                                      | ( )non- academic staff |             | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $la$               | aboratories | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |
|--|-----------------------------|---------|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |

| 9) Action Plan For Academic Year 20 /20 AD |                 |                    |  |  |  |  |
|--|-----------------|--------------------|--|--|--|--|
| Action required                            | Completion date | Person responsible |  |  |  |  |
|  |                 |                    |  |  |  |  |
|  |                 |                    |  |  |  |  |
|  |                 |                    |  |  |  |  |

Course coordinator

Signature

Prof. Dr. ahmed el-sisi



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| 11) Huminitisti attive Hiljoi matton                 |                    |                      |   |        |        |                  |                      |
|--|--------------------|----------------------|---|--------|--------|------------------|----------------------|
| Course Title Nontraditional machining methods Code I |                    |                      |   |        |        |                  | PRE 608              |
| Department offering the course Prod. Eng. & Mech.    |                    |                      |   |        |        | Level            | M. Sc.               |
|  | <u> </u>           | <b>)</b> esign       | . Dept.                                     |        |        |                  |                      |
| Programme on which                                   | ch the course is   | giver                | n   |        |        |                  |                      |
| Department(s) offer                                  | ing the progran    | nme                  |   |        |        |                  |                      |
| Academic year  | 2013 / 2014        | AI                   | D   | Seme   | ester  | ( )Fir           | st, (V)Second        |
| Start data / 2                                       | /2014 AD           |                      | End do                                      | ite    |        | / (              | 6/2014 AD            |
| A . 1 . 1 . 1  | Lecture            | Τι                   | ıtorial                                     |        | Lab.   |                  | Total                |
| Actual taught hours                                  | 3                  | -                    |   | _      |        | Ĵ                |                      |
| Are there any differ                                 | ence between tl    | hese f               | igures a                                    | nd the | ose sp | ecified          | ?                    |
| ( )Yes, ( V ) No                                     | o. , If yes, pleas | e give               | e the red                                   | isons: |        |                  |                      |
| 1  |                    |                      |   |        |        |                  |                      |
| 2)   |                    |                      |   |        |        |                  |                      |
| 3)   |                    |                      |   |        |        |                  |                      |
| Names of Lectures of                                 | contributing to    | 1)                   | Theory                                      | of NTN | M- Ne  | eds of N         | TM - Classifications |
| the delivery of the c                                |                    | 2) - ECM – EDM – LBM |   |        |        |                  |                      |
| The delivery of the co                               | Juise.             | 3)                   | 3) AJM and WJM - Hybrid methods and others. |        |        | hods and others. |                      |
|  |                    |                      |   |        |        |                  |                      |
| Members of course                                    | examination        | 1)                   | Prof. D                                     | r. Mah | moud   | l S. Hew         | idy                  |
| committee.   |                    |                      |   |        |        |                  |                      |
|  |                    |                      |   |        |        |                  |                      |
| 3)   |                    |                      |   |        |        |                  |                      |
| Dates of meeting of course examination committee.    |                    |                      |   |        |        |                  |                      |
| Course coordinator                                   | Prof. Dr. Ma       | hmou                 | d S. Hev                                    | vidy   |        |                  |                      |
| External evaluator                                   |                    |                      |   |        |        |                  |                      |



B) Statistical Information

|   | <u> </u>     |              |        |       |                                       |    |            |     |       |      |  |
|---|--------------|--------------|--------|-------|---------------------------------------|----|------------|-----|-------|------|--|
| No. of students starting the course   |              |              |        |       | No. of students completing the course |    |            |     |       | urse |  |
| 1   |              |              |        |       | 1                                     |    |            |     |       |      |  |
| Results of completing students  |              | Danad        |        | Vo.   | 1                                     | 1  |            | No. | 0     |      |  |
| Kesuus oj   | completing . | siuaenis     | Tussed | u = 0 | % 100                                 |    | Failed     | %   | 0     |      |  |
| Grading of completing students (of total pass)                              |              |              |        |       |                                       |    |            |     |       |      |  |
| Excellent   | No.          | Very<br>Good | No.    |       | God                                   | nd | No.        |     | Pass  | No.  |  |
| Excellent   | %            | Good         | %      |       | - 0000                                | ru | <i>a</i> % |     | 1 455 | %    |  |
| Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |              |              |        |       |                                       |    |            |     |       |      |  |
| 1)  |              |              |        |       |                                       |    |            |     |       |      |  |
| 2)  |              |              |        |       |                                       |    |            |     |       |      |  |
| 3)  |              |              |        |       |                                       |    |            |     |       |      |  |

| 1) Course teaching 90%   |
|--|
| Topics taught as a percentage of those specified: ( ) $100 \%$ ( $\sqrt{\ }$ ) < $100 \%$  |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories  |
| 2) Environmental conditions  |
| 3)   |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| $ 2\rangle$  |
| $  3\rangle$   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3) Teaching and Learning Methods: (please check $$ or $X$ ) |  |
|---|--|
|---|--|



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training | X | Class activity        | X      |
| Laboratory         | X | Case Study            | X      |
| Seminar            |   | Other assignments/hom | iework |

| 4) Facilities and Teaching Materials : please check $$ |          |                   |                            |  |  |  |
|--|----------|-------------------|----------------------------|--|--|--|
| Totally adequate                                       |          |                   |                            |  |  |  |
| Adequate to some extent                                | V        |                   |                            |  |  |  |
| Inadequate   |          |                   |                            |  |  |  |
| Reasons of your choice: please check $\sqrt{}$         |          |                   |                            |  |  |  |
| ( )academic staff                                      | ()no     | n- academic staff | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $la$ | aboratories       | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |
|--|-----------------------------|---------|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |

| 9) Action Plan For Academic Year | 20 /20 AD       |                    |
|----------------------------------|-----------------|--------------------|
| Action required                  | Completion date | Person responsible |
|                                  |                 |                    |
|                                  |                 |                    |
|                                  |                 |                    |

Course coordinator

Signature

**Prof. Dr. Mahmoud S. Hewidy** 



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Numerically controlled machine tools Code PRE 609 |  |          |                             |               |          | PRE 609       |  |
|--|--|----------|-----------------------------|---------------|----------|---------------|--|
| Department offering the course Design. Dept.                   |  |          |                             | Iech.         | Level    | M. Sc.        |  |
| Programme on which   | Programme on which the course is given |          |                             |               |          |               |  |
| Department(s) offeri   | ng the progra                          | mme      |                             |               |          |               |  |
| Academic year  | 2013 / 2014                            | AI       | D                           | Semester      | ()Firs   | st, (V)Second |  |
| Start data / 2 /2  | 2014 AD                                |          | End do                      | ıte           | / 6      | 5/2014 AD     |  |
| A atual taught houng   | Lecture                                | $T\iota$ | ıtorial                     | Lab.          |          | Total         |  |
| Actual taught hours  | 3                                      | -        |                             | -             | 3        |               |  |
| Are there any differe  | nce between t                          | hese f   | igures a                    | and those sp  | ecified? | )             |  |
| () Yes, $(V)$ No.  | , If yes, pleas                        | se give  | e the red                   | isons:        |          |               |  |
| 1  |  |          |                             |               |          |               |  |
| 2)   |  |          |                             |               |          |               |  |
| 3)   |  |          |                             |               |          |               |  |
| Names of Lectures co   | ontributing to                         | 1)       |                             | ion of compu  |          |               |  |
| the delivery of the co   | _                                      | 2)       | !                           |               |          |               |  |
|  |  | 3)       | 3) Assisted part programing |               |          |               |  |
|  |  | 1)       | Drof D                      | r. hany kzar  | nol      |               |  |
| Members of course examination                                  |  | 1        | 1101. D                     | 1. Hally Kzai | nei      |               |  |
| committee. 2)  |  |          |                             |               |          |               |  |
| 3)   |  |          |                             |               |          |               |  |
| Dates of meeting of course examination committee.              |  |          |                             |               |          |               |  |
| Course coordinator   Prof. Dr. hany kzamel                     |  |          |                             |               |          |               |  |
| External evaluator   |  |          |                             |               |          |               |  |



B) Statistical Information

|   | <u> </u>                                       |              |                |       |                                       |     |        |       |       |      |  |
|---|--|--------------|----------------|-------|---------------------------------------|-----|--------|-------|-------|------|--|
| No. of students starting the course   |  |              |                |       | No. of students completing the course |     |        |       |       | urse |  |
| 1   |  |              |                |       |                                       |     |        |       |       |      |  |
| Results of completing students  |  | Passa        | <sub>d</sub> 1 | Vo.   | 1                                     |     | Failed | No.   | 0     |      |  |
| Kesuus oj   | completing .                                   | siuaenis     | Tussed         | u = 0 | %                                     | 100 | )      | Гапеа | %     | 0    |  |
|   | Grading of completing students (of total pass) |              |                |       |                                       |     |        |       |       |      |  |
| Excellent   | No.  | Very<br>Good | No.            |       | God                                   | nd  | No.    |       | Pass  | No.  |  |
| Excellent %   | %  | Good         | %              |       | 0000                                  | ru  | %      |       | 1 ass | %    |  |
| Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |  |              |                |       |                                       |     |        |       |       |      |  |
| 1)  |  |              |                |       |                                       |     |        |       |       |      |  |
| 2)  |  |              |                |       |                                       |     |        |       |       |      |  |
| 3)  |  |              |                |       |                                       |     |        |       |       |      |  |

| 1) Course teaching 90%   |
|--|
| Topics taught as a percentage of those specified: ( ) $100 \%$ ( $\sqrt{\ }$ ) < $100 \%$  |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories  |
| 2) Environmental conditions  |
| 3)   |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| $ 2\rangle$  |
| $  3\rangle$   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3) Teaching and Learning Methods: (please check $\sqrt{\ }$ or $X$ ) |  |
|--|--|
|--|--|



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training | X | Class activity        | X      |
| Laboratory         | X | Case Study            | X      |
| Seminar            |   | Other assignments/hon | ıework |

| 4) Facilities and Teaching Materials : please check $$ |          |                   |                            |  |  |  |
|--|----------|-------------------|----------------------------|--|--|--|
| Totally adequate                                       |          |                   |                            |  |  |  |
| Adequate to some extent                                | V        |                   |                            |  |  |  |
| Inadequate   |          |                   |                            |  |  |  |
| Reasons of your choice: please check $\sqrt{}$         |          |                   |                            |  |  |  |
| ( )academic staff                                      | ( )no    | n- academic staff | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $la$ | aboratories       | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |
|--|-----------------------------|---------|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |

| 9) Action Plan For Academic Year 20 /20 AD |                 |                    |  |  |  |  |  |
|--|-----------------|--------------------|--|--|--|--|--|
| Action required                            | Completion date | Person responsible |  |  |  |  |  |
|  |                 |                    |  |  |  |  |  |
|  |                 |                    |  |  |  |  |  |
|  |                 |                    |  |  |  |  |  |

Course coordinator Prof. Dr. hany kzamel



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Adv   |                                  | acture  | methods  |             | Cod              | 0        | PRE 610  |     |
|--|----------------------------------|---------|----------|-------------|------------------|----------|----------|-----|
|  | Prod. Eng. & Mech. Design. Dept. |         |          | Leve        | — <del>i</del> – | M. Sc.   |          |     |
| Programme on which   |                                  |         |          |             | _U               | <u>.</u> |          |     |
| Department(s) offering                                     |                                  |         |          |             |                  |          |          |     |
| Academic year 20   | 011 /201                         | 12      | AD       | Semester    | ()F              | irst,    | ( V)Seco | ond |
| Start data / 2   | /2014 A                          | D       | End do   | ite         | /                | ′ 6      | /2014    | AD  |
| A stud tought house  | Lecture                          | Τι      | ıtorial  | Lab         |                  |          | Total    |     |
| Actual taught hours  | 3                                | -       |          | -           |                  | 3        |          |     |
| Are there any different                                    | ce between i                     | these f | igures a | and those s | pecifie          | ?d?      |          |     |
| ( )Yes, (V) No., If yes, please give the reasons:  1 2) 3) |                                  |         |          |             |                  |          |          |     |
| Names of Lectures con                                      | tributing to                     | 1)      | IC man   | ufactory    |                  |          |          |     |
| Names of rechares continuating to :                        |                                  |         | IC pack  | ing         |                  |          |          |     |
| ine delivery of the con-                                   |                                  | 3)      | CD and   | DVD manu    | facturii         | ng       |          |     |
| Members of course exa                                      | amination                        | 1)      | Prof. D  | r. Ahmed M  | I. Easa.         | •        |          |     |
| committee.   |                                  |         |          |             |                  |          |          |     |
|  |                                  |         |          |             |                  |          |          |     |
|  |                                  | 3)      |          |             |                  |          |          |     |
| Dates of meeting of co                                     | urse examir                      | nation  | commit   | tee.        |                  |          |          |     |
| Course coordinator Prof. Dr. Ahmed M. Easa.                |                                  |         |          |             |                  |          |          |     |
|  | Dr. Fawkia                       | Ramad   | an       |             |                  |          |          |     |
| External evaluator   |                                  |         |          |             |                  |          |          |     |



B) Statistical Information

| , ,   |                                     |  |
|---|-------------------------------------|--|
| No. of students starting the course No. of students completing the cour |                                     |  |
| 1   | 1                                   |  |
| Rosults of comploting students   Passed L                               | No. 1 Failed No. 0                  |  |
| results of completing structus Trussea                                  | % 100 Tanea % 0                     |  |
| Grading of completing   | g students (of total pass)          |  |
| Excellent No. Very No.  | Good No. Pass No. %                 |  |
| "% Good %   | %                                   |  |
| Are the grades acceptable? ( ) Yes, ( )                                 | No. If no, please give the reasons. |  |
| 1)  |                                     |  |
| 2)  |                                     |  |
| 3)  |                                     |  |

| C) I Tojessionai Injormation   |
|--|
| 1) Course teaching 90%   |
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{}$ ) < $100\%$      |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories related to the subject   |
| 2) Environmental conditions  |
| 3)   |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| 2)   |
| 3)   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |



## جامعة المنوفية كلية الهندسة بشبين الكوم

|  |                              | بنوفيه         | جامعه الر          |                    |           |  |
|--|------------------------------|----------------|--------------------|--------------------|-----------|--|
| Total                                      |                              |                | 100                | 100 %              |           |  |
|  |                              |                | 1                  |                    |           |  |
| 3) Teaching and Learnin                    | g Meth                       | hods:(ple      | ease check √       | or X)              |           |  |
| Lectures                                   | $\sqrt{\frac{1}{Work Shop}}$ |                |                    |                    |           |  |
| Practical Training                         | X                            |                | Class activi       | ity                | X         |  |
| Laboratory                                 | X                            |                | Case Study         |                    |           |  |
| Seminar                                    |                              |                | Other assig        |                    |           |  |
|  |                              |                |                    |                    |           |  |
| 4) Facilities and Teaching                 | g Mate                       | rials : ple    | ease check √       |                    |           |  |
| Totally adequate                           |                              |                |                    |                    |           |  |
| Adequate to some extent                    | V                            |                |                    |                    |           |  |
| Inadequate                                 |                              |                |                    |                    |           |  |
| Re   | asons                        | of your cl     | hoice: please      | check √            |           |  |
| ( )academic staff                          | (                            | )non- aca      | demic staff        | (V )teaching acco  | mmodation |  |
| (V ) library                               | V                            | ) laborat      | ories              | ( ) IT facility    |           |  |
|  |                              |                |                    |                    |           |  |
| 5) Administrative Constra                  | iin                          |                |                    |                    |           |  |
|  |                              |                | <u>.</u>           |                    |           |  |
| 6) Student evaluation of C                 | Course                       |                | Commer             | nts of Course Team |           |  |
|  |                              | 1)<br>2)<br>3) |                    | J                  |           |  |
|  |                              |                |                    |                    |           |  |
| 7) Comment For Externa                     | l Evali                      | uator(s)       | Con                | nments of Course T | eam       |  |
| 1)   |                              |                | 1)                 |                    |           |  |
| 2)   |                              |                | 2)                 |                    |           |  |
| 3)   |                              |                | 3)                 |                    |           |  |
|  |                              |                |                    |                    |           |  |
| 8) Course Enhancement                      |                              |                |                    |                    |           |  |
| Progress on actions ident                  | ified ir                     |                |                    | *                  |           |  |
| Action                                     |                              | Comp           | oleted ( $$ or $2$ | X) Reaso           | ons       |  |
|  |                              |                |                    |                    |           |  |
|  |                              |                |                    |                    |           |  |
|  |                              |                |                    |                    |           |  |
| 0) 4 4                                     | <u> </u>                     |                | <b>10.</b> 0 : =   |                    |           |  |
| 9) Action Plan For Academic Year 20 /20 AD |                              |                |                    |                    |           |  |
| Action required                            |                              | Cor            | npletion date      | e Person resp      | ponsible  |  |



## جامعة المنوفية كلية الهندسة بشبين الكوم

Course coordinator Prof. Dr. Ahmed M. Easa. Dr. Fawkia Ramadan



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| 11) Hamilien active Hig   |                            |         |                |             | 11      |               |
|---|----------------------------|---------|----------------|-------------|---------|---------------|
| Course Title Advanced methods of measurement  |                            |         | Code           | PRE 612     |         |               |
| Department offering the course Prod. Eng. & Mech. Design. Dept.   |                            |         |                |             | Level   | M. Sc.        |
| Programme on which  | the course is              | giver   | $\overline{n}$ |             |         |               |
| Department(s) offerin   | g the progra               | mme     |                |             |         |               |
| Academic year 2   | 011 /201                   | 2       | AD             | Semester    | ( )Fir  | st, (V)Second |
| Start data / 2  | /2014 AI                   | )       | End do         | ite         | /       | 6 /2014 AD    |
| A street to see the server  | Lecture                    | Τι      | ıtorial        | Lab.        |         | Total         |
| Actual taught hours   | 3                          | -       |                | -           | 3       | )<br>         |
| Are there any differen  | ce between t               | hese f  | igures a       | nd those sp | ecified | ?             |
| ( )Yes, ( V ) No.<br>1<br>2)<br>3)  | , If yes, pleas            | se give | e the rec      | isons:      |         |               |
| Names of Lectures contributing to the delivery of the course.  1) Design of measuring instruments 2) Measuring errors and it's static analysis 3) Sensors and transducers |                            |         |                |             |         |               |
| Members of course examination committee.  1) Prof. Dr. Ahmed M. Easa. 2) Dr. Fawkia Ramadan Gomaa   |                            |         |                |             |         |               |
|   |                            | 3)      |                | <u> </u>    |         |               |
| Dates of meeting of co  |                            |         |                | tee.        |         |               |
| Course coordinator  | Prof. Dr. Ah<br>Dr. Fawkia |         |                |             |         |               |
| External evaluator  |                            |         |                |             |         |               |



B) Statistical Information

| No. of students starting the                   | No. of students completing the course |        |          |             |              |              |
|--|---------------------------------------|--------|----------|-------------|--------------|--------------|
| 3  |                                       | 3      | <u></u>  |             |              | 2            |
| Results of completing students                 | Passed                                | No     | 3<br>100 | Failed      | <i>No.</i> % | 0 0          |
| Grading of completing students (of total pass) |                                       |        |          |             |              |              |
| P.XCPHPIII                                     | <i>No.</i> %                          | Good   | l No. %  |             | Pass         | <i>No.</i> % |
| Are the grades acceptable? ( ) 1) 2) 3)        | Yes, ( )                              | No. If | no, plea | ise give th | he rec       | usons.       |

| C) I rojessionai Injormation   |
|--|
| 1) Course teaching 90%   |
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{\ }$ ) < $100\%$    |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories related to the subject   |
| 2) Environmental conditions  |
| 3)   |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| 2)   |
| 3)   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |



## جامعة المنوفية كلية الهندسة بشبين الكوم

|  |         | بنوفيه         | جامعه الر          |                    |           |  |  |
|--|---------|----------------|--------------------|--------------------|-----------|--|--|
| Total  |         |                | 100                | 100 %              |           |  |  |
|  |         |                | 1                  |                    |           |  |  |
| 3) Teaching and Learnin  | g Meth  | hods:(ple      | ease check √       | or X)              |           |  |  |
| Lectures   |         | · <del>-</del> | Work Shop          |                    |           |  |  |
| Practical Training   | X       |                | Class activi       | ity                | X         |  |  |
| Laboratory   | X       |                | Case Study         |                    |           |  |  |
| Seminar  |         |                | Other assig        | nments/homework    |           |  |  |
|  |         |                |                    |                    |           |  |  |
| 4) Facilities and Teaching   | g Mate  | rials : ple    | ease check √       |                    |           |  |  |
| Totally adequate   |         |                |                    |                    |           |  |  |
| Adequate to some extent  | V       |                |                    |                    |           |  |  |
| Inadequate   |         |                |                    |                    |           |  |  |
| Re   | asons   | of your cl     | hoice: please      | check √            |           |  |  |
| ( )academic staff  | (       | )non- aca      | demic staff        | (V )teaching acco  | mmodation |  |  |
| (V ) library   | V       | ) laborat      | ories              | ( ) IT facility    |           |  |  |
|  |         |                |                    |                    |           |  |  |
| 5) Administrative Constra  | iin     |                |                    |                    |           |  |  |
|  |         |                | <u>.</u>           |                    |           |  |  |
| 6) Student evaluation of C   | Course  |                | Commer             | nts of Course Team |           |  |  |
| 1)<br>2)<br>3)   |         |                |                    |                    |           |  |  |
|  |         |                |                    |                    |           |  |  |
| 7) Comment For Externa   | l Evali | uator(s)       | Con                | nments of Course T | eam       |  |  |
| 1)   |         |                | 1)                 |                    |           |  |  |
| 2)   |         |                | 2)                 |                    |           |  |  |
| 3)   |         |                | 3)                 |                    |           |  |  |
|  |         |                |                    |                    |           |  |  |
| 8) Course Enhancement  |         |                |                    |                    |           |  |  |
| Progress on actions identified in the previous year's action plan: |         |                |                    |                    |           |  |  |
| Action   |         |                | oleted ( $$ or $2$ | X) Reaso           | ons       |  |  |
|  |         |                |                    |                    |           |  |  |
|  |         |                |                    |                    |           |  |  |
|  |         |                |                    |                    |           |  |  |
|  |         |                |                    |                    |           |  |  |
| 9) Action Plan For Academic Year 20 /20 AD                         |         |                |                    |                    |           |  |  |
| Action required  | Cor     | npletion date  | e Person resp      | ponsible           |           |  |  |



## جامعة المنوفية كلية الهندسة بشبين الكوم

Course coordinator Prof. Dr. Ahmed M. Easa. Dr. Fawkia Ramadan



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Dynamic of multi bodies system  |                  |         |                                 |              |          | PRE 619       |  |
|--|------------------|---------|---------------------------------|--------------|----------|---------------|--|
| Department offering the course Prod. Eng. & Mecl Design. Dept.                               |                  |         |                                 |              | Level    | M. Sc.        |  |
| Programme on which   | h the course i   | s giver | $\overline{n}$                  |              |          |               |  |
| Department(s) offeri   | ng the progra    | ımme    |                                 |              |          |               |  |
| Academic year  | 2013 / 2014      | AI      | D                               | Semester     | ( )Fir   | st, (V)Second |  |
| Start data / 2 /   | 2014 AD          |         | End do                          | ate          | / (      | 6/2014 AD     |  |
| A strict to a solet le serve   | Lecture          | Τι      | ıtorial                         | Lab.         |          | Total         |  |
| Actual taught hours  | 3                | -       |                                 | -            | 3        | )<br>!        |  |
| Are there any differe  | nce between      | these f | igures a                        | and those sp | pecified | ?             |  |
| ( )Yes, ( V ) No   | . , If yes, plea | se give | e the red                       | asons:       |          |               |  |
| 1  |                  |         |                                 |              |          |               |  |
| 2)   |                  |         |                                 |              |          |               |  |
| 3)   |                  |         |                                 |              |          |               |  |
| Names of Lectures c  | ontributing to   | 1)      | Kinematics of supports          |              |          |               |  |
| the delivery of the co   | •                | 2)      | 2) Kinetic analysis             |              |          |               |  |
|  |                  | 3)      | 3) Mechanical of elastic bodies |              |          |               |  |
|  |                  | 1)      | D.CD                            | 11 1         |          |               |  |
| Members of course examination  |                  | 1)      | Proi. D                         | r. sobhy gho | nem      |               |  |
| committee.   | 2)               |         |                                 |              |          |               |  |
| 3)   |                  |         |                                 |              |          |               |  |
|  |                  |         |                                 |              |          |               |  |
| Dates of meeting of course examination committee.  Course coordinator Prof. Dr. sobhy ghonem |                  |         |                                 |              |          |               |  |
| External evaluator   | 1101. 11. 50     | onj gn  |                                 |              |          |               |  |
| Lateriai evaluator   |                  |         |                                 |              |          |               |  |



B) Statistical Information

| 2) 80000   | cai Injorna   | *************************************** |                 |     |                                       |              |        |       |     |  |
|------------|---|---|-----------------|-----|---------------------------------------|--------------|--------|-------|-----|--|
| No. of     | No. of students starting the course   |   |                 |     | No. of students completing the course |              |        |       |     |  |
| 2          |   |   |                 | 2   |                                       |              |        |       |     |  |
| Dogulta of | `aamplatina   | atudanta                                | Daggad          | No. | 2                                     |              | Failed | No.   | 0   |  |
| Kesuus oj  | Results of completing students   Passed                                     |   | rassea          | %   | % 100                                 |              | Ганеа  | %     | 0   |  |
|            | Grading of completing students (of total pass)                              |   |                 |     |                                       |              |        |       |     |  |
| Excellent  | No.   | Very                                    | <i>No.</i><br>% | God | od.                                   | <i>No.</i> % |        | Pass  | No. |  |
| DACCHCIII  | %   | Good                                    | %               |     | M                                     | %            |        | 1 ass | %   |  |
| Are the gr | Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |   |                 |     |                                       |              |        |       |     |  |
| 1)         |   |   |                 |     |                                       |              |        |       |     |  |
| 2)         |   |   |                 |     |                                       |              |        |       |     |  |
| 3)         |   |   |                 |     |                                       |              |        |       |     |  |

| e) 11 ojessionai 11 joi maiton   |
|--|
| 1) Course teaching 90%   |
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{}$ ) < $100\%$      |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories  |
| 2) Environmental conditions  |
| (3)  |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| $ 2\rangle$  |
| $ 3\rangle$  |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training | X | Class activity        | X      |
| Laboratory         | X | Case Study            | X      |
| Seminar            |   | Other assignments/hor | mework |

| 4) Facilities and Teaching Materials : please check $$ |         |                     |                            |  |  |  |
|--|---------|---------------------|----------------------------|--|--|--|
| Totally adequate                                       |         |                     |                            |  |  |  |
| Adequate to some extent                                | V       |                     |                            |  |  |  |
| Inadequate   |         |                     |                            |  |  |  |
| Rea  | sons of | your choice: please | check √                    |  |  |  |
| ( )academic staff                                      | ( )nc   | on- academic staff  | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $l$ | aboratories         | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement                |                             |         |
|--------------------------------------|-----------------------------|---------|
| Progress on actions identified in th | ne previous year's actio    | n plan: |
| Action                               | Completed ( $\sqrt{or X}$ ) | Reasons |
|                                      |                             |         |
|                                      |                             |         |
|                                      |                             |         |

| 9) Action Plan For Academic Year 20 /20 AD |                 |                    |  |  |  |
|--|-----------------|--------------------|--|--|--|
| Action required                            | Completion date | Person responsible |  |  |  |
|  |                 |                    |  |  |  |
|  |                 |                    |  |  |  |
|  |                 |                    |  |  |  |

Course coordinator Prof. Dr. sobby ghonem



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

A) Administrative Information

| A) Auministrative Information  |                   |        |                                     |             |         |                |  |
|--|-------------------|--------|-------------------------------------|-------------|---------|----------------|--|
| Course Title Design and Analysis of Experiments Code                                   |                   |        |                                     |             | Code    | PRE 623        |  |
| Department offerin   | g the course      |        | . Eng. & M                          | Iech.       | Level   | M. Sc.         |  |
|  |                   | Desig  | gn. Dept.                           |             |         |                |  |
| Programme on whi   | ich the course    | is giv | en                                  |             |         |                |  |
| Department(s) offe   | ring the progra   | amme   | ę                                   |             |         |                |  |
| Academic year  | 2011 /20          | 12     | AD                                  | Semester    | ( )Fi   | rst, (V)Second |  |
| Start data / 2   | 2 /2014 A         | AD     | End dat                             | e           | /       | 6 /2014 AD     |  |
| A - 4 1 4 1 4 1  | Lecture           | 7      | <i>[utorial</i>                     | Lab. Total  |         | Total          |  |
| Actual taught hour   | 8 3               | -      |                                     | -           |         | 3              |  |
| Are there any differ   | rence between     | these  | figures a                           | nd those sp | ecified | <i>l?</i>      |  |
| () Yes, $(V)$ 1  | Vo. , If yes, ple | ase g  | ive the re                          | asons:      |         |                |  |
| 1  |                   |        |                                     |             |         |                |  |
| 2)   | (2)               |        |                                     |             |         |                |  |
| 3)   |                   |        |                                     |             |         |                |  |
| Names of Lectures contributing 1) Experiment with single factor (analysis of variance) |                   |        |                                     |             |         |                |  |
| Names of Lectures contributing to the delivery of the course.                          |                   | 2)     |                                     |             |         |                |  |
|  |                   | _/     | Incomplete block design             |             |         |                |  |
|  |                   |        | Response surface methods and design |             |         |                |  |
| Members of course examination 1) Prof. M.Fatooh  |                   |        |                                     |             |         |                |  |
| Members of course examination  |                   | 2)     | Prof. Dr.Taha Ali El-Taweel         |             |         |                |  |
| committee.   |                   |        |                                     |             |         |                |  |
| Dates of meeting of course examination committee.                                      |                   |        |                                     |             |         |                |  |
| Course coordinator Prof. M. Fatooh   |                   |        |                                     |             |         |                |  |
| Prof. Dr. Taha Ali El-Taweel   |                   |        |                                     |             |         |                |  |
| External evaluator   |                   |        |                                     |             |         |                |  |
| U  | •                 |        |                                     |             |         |                |  |

B) Statistical Information

| D) Statisticat Injormation          |             |        |                                       |             |        |        |  |
|-------------------------------------|-------------|--------|---------------------------------------|-------------|--------|--------|--|
| No. of students starting the course |             |        | No. of students completing the course |             |        |        |  |
| 1                                   |             | 1      |                                       | _           |        |        |  |
| Describe of a sumlation a students  | Daggard     | No.    | 1                                     | E ail a d   | No.    | 0      |  |
| Results of completing students      | Passed      | %      | 100                                   | - Failed    | %      | 0      |  |
| Grading o                           | f completin | g stud | ents (of to                           | otal pass)  |        | 1      |  |
| Excellent No. Very                  | No.         | Go     | od No.                                |             | Pass   | No.    |  |
| % Good                              | %           | 00     | %                                     |             | uss    | %      |  |
| Are the grades acceptable? (        | ) Yes, ( )  | No.    | If no, ple                            | ase give th | he rea | isons. |  |
| 1)                                  |             |        |                                       |             |        |        |  |
| 2)                                  |             |        |                                       |             |        |        |  |
| 3)                                  |             |        |                                       |             |        |        |  |



# جامعة المنوفية كلية الهندسة بشبين الكوم

|  | C) Pro | fessio | nal In | iform | ation |
|--|--------|--------|--------|-------|-------|
|--|--------|--------|--------|-------|-------|

| 1) Course teaching 90%  |
|---|
| Topics taught as a percentage of those specified: ( ) $100\%$ ( $\sqrt{\ }$ ) < $100\%$ |
| If the percentage is less than 100%, please give reasons for not teaching any topic:    |
| 1) Library books related to engineering economy   |
| 2) Environmental conditions and lack in laboratories                                    |
| 3) holidays   |
| Referring to the course specification, please list any ILO's specified but not taught.  |
| 1) c1. Use efficiently the available tools as computer programs and measuring           |
| instruments as well as building ideas in the laboratory or through simulation and       |
| apply production engineering techniques.  |
| 2)  |
| 3)  |
|   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |

| 3) Teaching and Learning Methods: (please check $\sqrt{\text{or }X}$ ) |           |                            |           |  |  |
|--|-----------|----------------------------|-----------|--|--|
| Lectures   | $\sqrt{}$ | Work Shop                  |           |  |  |
| Practical Training   | X         | Class activity             | X         |  |  |
| Laboratory   | X         | Case Study                 | $\sqrt{}$ |  |  |
| Seminar  |           | Other assignments/homework |           |  |  |

| 4) Facilities and Teaching Materials : please check $$ |                        |  |                            |  |
|--|------------------------|--|----------------------------|--|
| Totally adequate                                       |                        |  |                            |  |
| Adequate to some extent                                | V                      |  |                            |  |
| Inadequate   |                        |  |                            |  |
| Reasons of your choice: please check $$                |                        |  |                            |  |
| ( )academic staff                                      | ( )non- academic staff |  | (V )teaching accommodation |  |
| (V ) library   | V ) laboratories       |  | ( ) IT facility            |  |



## جامعة المنوفية كلية الهندسة بشبين الكوم

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |
|---------------------------------|-------------------------|
|                                 | 1)                      |
|                                 | 2)                      |
|                                 | 3)                      |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |  |
|--|-----------------------------|---------|--|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |
|  |                             |         |  |  |  |

| 9) Action Plan For Academic Year 20 /20 AD |                 |                    |  |  |  |
|--|-----------------|--------------------|--|--|--|
| Action required                            | Completion date | Person responsible |  |  |  |
|  |                 |                    |  |  |  |
|  |                 |                    |  |  |  |
|  |                 |                    |  |  |  |

Course coordinator

Prof. M.Fatouh

Prof. Dr. Taha Ali El-Taweel



جامعة المنوفية كلية الهندسة بشبين الكوم

#### ANNUAL COURSE REPORT

| Course Title Inventory and materials management Code PRE 625  |  |     |         |          | PRE 625 |                |
|---|--|-----|---------|----------|---------|----------------|
| Department offering the course Prod. Eng. & Mech. Design. Dept.   |  |     |         |          | Level   | M. Sc.         |
| Programme on whic   | Programme on which the course is given |     |         |          |         |                |
| Department(s) offeri  | ng the prograi                         | mme |         |          |         |                |
| Academic year   | 2013 / 2014                            | AI  | D       | Semester | ( )Fi   | rst, (V)Second |
| Start data / 2/   | 2014 AD                                |     | End do  | ıte      | /       | 6/2014 AD      |
| A atri al 4 ari alat la arias   | Lecture                                | Τι  | ıtorial | Lab.     |         | Total          |
| Actual taught hours   | 3                                      | -   |         | -        |         | 3              |
| Are there any difference between these figures and those specified?  ( )Yes, (V) No., If yes, please give the reasons:  1 2) 3)  Names of Lectures contributing to the delivery of the course.  1 Inventroy systems 2) ABC inventory analysis 3) Basic inventory models |  |     |         |          |         |                |
| Members of course examination committee.  1) Prof. Dr. mohamed hesham belel 2) 3)   |  |     |         |          |         |                |
| Dates of meeting of course examination committee.   |  |     |         |          |         |                |
| Course coordinator Prof. Dr. mohamed hesham belel   |  |     |         |          |         |                |
| External evaluator  |  |     |         |          |         |                |



B) Statistical Information

| <i>y</i>  |            |       |                                       |         |           |       |     |      |
|---|------------|-------|---------------------------------------|---------|-----------|-------|-----|------|
| No. of students starting the course   |            |       | No. of students completing the course |         |           |       |     | ırse |
| 1   |            |       |                                       |         |           |       |     |      |
| Results of completing students  Passed                                      |            | No.   | 1                                     |         | Failed    | No.   | 0   |      |
| Results of completing students  | 1 assea    | %     | 100                                   | )       | 1 anca    | %     | 0   |      |
| Grading of c  | completing | stude | ents                                  | (of tot | tal pass, | )     |     |      |
|   | No.        | God   | nd.                                   | Ñо.     |           | Pass  | No. |      |
| Good 5  | %          | Good  |                                       | %       |           | 1 ass | %   |      |
| Are the grades acceptable? ( ) Yes, ( ) No. If no, please give the reasons. |            |       |                                       |         |           |       |     |      |
| 1)  |            |       |                                       |         |           |       |     |      |
| 2)  |            |       |                                       |         |           |       |     |      |
| 3)  |            |       |                                       |         |           |       |     |      |

| 1) Course teaching 90%   |
|--|
| Topics taught as a percentage of those specified: ( ) $100 \%$ ( $\sqrt{\ }$ ) < $100 \%$  |
| If the percentage is less than 100%, please give reasons for not teaching any topic:       |
| 1) Lack in laboratories  |
| 2) Environmental conditions  |
| 3)   |
| Referring to the course specification, please list any ILO's specified but not taught.     |
| 1) C-1) Use efficiently the available tools as computer programs and measuring instruments |
| as well as building ideas in the laboratory or through simulation and apply production     |
| engineering techniques   |
| $ 2\rangle$  |
| $  3\rangle$   |

| 2) Student assessment               |      |            |
|-------------------------------------|------|------------|
| Method of assessment                | mark | % of total |
| Final term examination              | 100  | 100        |
| Mid term examination                |      |            |
| Oral examination                    | -    | -          |
| Practical / Laboratory examination. |      | -          |
| Semester work                       | -    | -          |
| Other types of assessment           |      |            |
| Total                               | 100  | 100 %      |



## جامعة المنوفية كلية الهندسة بشبين الكوم

| Lectures           | V | Work Shop             |        |
|--------------------|---|-----------------------|--------|
| Practical Training | X | Class activity        | X      |
| Laboratory         | X | Case Study            | X      |
| Seminar            |   | Other assignments/hon | ıework |

| 4) Facilities and Teaching Materials : please check $$ |          |                   |                            |  |  |  |
|--|----------|-------------------|----------------------------|--|--|--|
| Totally adequate                                       |          |                   |                            |  |  |  |
| Adequate to some extent                                | V        |                   |                            |  |  |  |
| Inadequate   |          |                   |                            |  |  |  |
| Reasons of your choice: please check $\sqrt{}$         |          |                   |                            |  |  |  |
| ( )academic staff                                      | ( )no    | n- academic staff | (V )teaching accommodation |  |  |  |
| (V ) library   | V ) $la$ | aboratories       | ( ) IT facility            |  |  |  |

| 5) Administrative Constrain |  |
|-----------------------------|--|

| 6) Student evaluation of Course | Comments of Course Team |  |
|---------------------------------|-------------------------|--|
|                                 | 1)                      |  |
|                                 | 2)                      |  |
|                                 | 3)                      |  |

| 7) Comment For External Evaluator(s) | Comments of Course Team |
|--------------------------------------|-------------------------|
| 1)                                   | 1)                      |
| 2)                                   | 2)                      |
| 3)                                   | 3)                      |

| 8) Course Enhancement  |                             |         |  |  |
|--|-----------------------------|---------|--|--|
| Progress on actions identified in the previous year's action plan: |                             |         |  |  |
| Action   | Completed ( $\sqrt{or X}$ ) | Reasons |  |  |
|  |                             |         |  |  |
|  |                             |         |  |  |
|  |                             |         |  |  |

| 9) Action Plan For Academic Year 20 /20 AD |                 |                    |  |
|--|-----------------|--------------------|--|
| Action required                            | Completion date | Person responsible |  |
|  |                 |                    |  |
|  |                 |                    |  |
|  |                 |                    |  |

Course coordinator

Prof. Dr. mohamed hesham belel