



दिल्ली विश्वविद्यालय  
UNIVERSITY OF DELHI

FYUP

Evaluation Schedule for Science Courses Under Graduate  
Programme Part-II,III,IV (IV,VI & VIII Semester) Examination May-2019  
Students Admitted under erstwhile FYUP in Year-2013

TIME OF COMMENCEMENT : 9:00 AM

MAIN SUBJECT :- Biochemistry, Biomedical Science, Botany, Chemistry, \*Computer Science, \*Electronics Science,\*Food Technology, Home Science, \*Instrumentation, Mathematics, Microbiology, Physics, \*Polymer Science Statistics, Zoology.

| Date & Day of Exam | Subject | Sem | Unique Paper Code | Description | Evaluation Schedule |    | C.E.C. |
|--------------------|---------|-----|-------------------|-------------|---------------------|----|--------|
|                    |         |     |                   |             | From                | To |        |

**10<sup>th</sup> May Friday**

|                             |                     |      |         |  |            |            |        |
|-----------------------------|---------------------|------|---------|--|------------|------------|--------|
| 10 <sup>th</sup> May Friday | Computer Science    | VIII | 2341801 | Web Technology                               | 14-05-2019 | 20-05-2019 | K.M.V. |
| 10 <sup>th</sup> May Friday | Electronics Science | VIII | 2511801 | Semiconductor fabrication & Characterization | 14-05-2019 | 20-05-2019 | S.V.C. |
| 10 <sup>th</sup> May Friday | Food Technology     | VIII | 2201801 | Food Plant Sanitation and Waste Management   | 14-05-2019 | 20-05-2019 | S.V.C. |
| 10 <sup>th</sup> May Friday | Instrumentation     | VIII | 2511805 | Artificial Intelligence Control Techniques   | 14-05-2019 | 20-05-2019 | S.V.C. |
| 10 <sup>th</sup> May Friday | Polymer Science     | VIII | 1141801 | Applied Polymer Science                      | 14-05-2019 | 20-05-2019 | S.V.C. |

**11<sup>th</sup> May, Saturday**

|                                |                     |    |         |   |            |            |               |
|--------------------------------|---------------------|----|---------|---|------------|------------|---------------|
| 11 <sup>th</sup> May, Saturday | Biochemistry        | VI | 2491601 | Concepts in Genetics                                      | 15-05-2019 | 21-05-2019 | S.V.C.        |
| 11 <sup>th</sup> May, Saturday | Biomedical Science  | VI | 2581601 | Medical Biotechnology                                     | 15-05-2019 | 21-05-2019 | S.V.C.        |
| 11 <sup>th</sup> May, Saturday | Botany              | VI | 2161601 | Plant Metabolism  | 15-05-2019 | 21-05-2019 | M.H.          |
| 11 <sup>th</sup> May, Saturday | Chemistry           | VI | 2171601 | Theory Inorganic: Organometallic, Bio-Inorganic Chemistry | 15-05-2019 | 21-05-2019 | Hindu College |
| 11 <sup>th</sup> May, Saturday | Computer Science    | VI | 2341601 | Microprocessor  | 15-05-2019 | 21-05-2019 | K.M.V.        |
| 11 <sup>th</sup> May, Saturday | Electronics Science | VI | 2513601 | Embedded Systems  | 15-05-2019 | 21-05-2019 | S.V.C.        |
| 11 <sup>th</sup> May, Saturday | Food Technology     | VI | 2201605 | Food Engineering  | 15-05-2019 | 21-05-2019 | S.V.C.        |
| 11 <sup>th</sup> May, Saturday | Home Science        | VI | 2201601 | Fashion Design and Development                            | 15-05-2019 | 21-05-2019 | S.V.C.        |
| 11 <sup>th</sup> May, Saturday | Instrumentation     | VI | 2513605 | Analytical Instrumentation-II                             | 15-05-2019 | 21-05-2019 | S.V.C.        |

|                                |   |    |         |   |            |            |                  |
|--------------------------------|---|----|---------|---|------------|------------|------------------|
| 11 <sup>th</sup> May, Saturday | Mathematics                               | VI | 2351601 | Algebra-V (Ring Theory & Linear Algebra-II) | 15-05-2019 | 21-05-2019 | Maitreyi College |
| 11 <sup>th</sup> May, Saturday | Microbiology                              | VI | 2531601 | Medical Microbiology                        | 15-05-2019 | 21-05-2019 | S.V.C.           |
| 11 <sup>th</sup> May, Saturday | Physics                                   | VI | 2221601 | Solid State Physics                         | 15-05-2019 | 21-05-2019 | K.M.V.           |
| 11 <sup>th</sup> May, Saturday | Polymer Science                           | VI | 1141601 | Tyre Technology                             | 15-05-2019 | 21-05-2019 | S.V.C.           |
| 11 <sup>th</sup> May, Saturday | Statistics                                | VI | 2371601 | Statistical Inference-II                    | 15-05-2019 | 21-05-2019 | Hindu College    |
| 11 <sup>th</sup> May, Saturday | Zoology                                   | VI | 2231601 | Principles of Genetics                      | 15-05-2019 | 21-05-2019 | M.H.             |
| 11 <sup>th</sup> May, Saturday | Physical and Education and Sports Science | VI | 2551601 | Kinesiology and Biomechanics                | 15-05-2019 | 21-05-2019 | S.V.C.           |

**13<sup>th</sup> May, Monday**

|                              |                     |    |         |  |            |            |                  |
|------------------------------|---------------------|----|---------|--|------------|------------|------------------|
| 13 <sup>th</sup> May, Monday | Biochemistry        | IV | 2491403 | Metabolism of Amino Acids and Nucleotides    | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Biomedical Science  | IV | 2581402 | Human Pathology                              | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Botany              | IV | 2161403 | Plant Systematics                            | 17-05-2019 | 23-05-2019 | M.H.             |
| 13 <sup>th</sup> May, Monday | Chemistry           | IV | 2171402 | Inorganic: Chemistry of p-block Elements     | 17-05-2019 | 23-05-2019 | Hindu College    |
| 13 <sup>th</sup> May, Monday | Computer Science    | IV | 2341403 | Database Management Systems                  | 17-05-2019 | 23-05-2019 | K.M.V.           |
| 13 <sup>th</sup> May, Monday | Electronics Science | IV | 2511401 | Analog Electronics-II                        | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Food Technology     | IV | 2201402 | Food Chemistry                               | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Home Science        | IV | 2201404 | Communication Systems and Mass Media         | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Instrumentation     | IV | 2511406 | Electrical Instruments                       | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Mathematics         | IV | 2351402 | Algebra-III (Ring Theory & Linear Algebra-I) | 17-05-2019 | 23-05-2019 | Maitreyi College |
| 13 <sup>th</sup> May, Monday | Microbiology        | IV | 2531401 | Microbial Genetics and Genomics              | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Physics             | IV | 2221401 | Elements of Modern Physics                   | 17-05-2019 | 23-05-2019 | K.M.V.           |
| 13 <sup>th</sup> May, Monday | Polymer Science     | IV | 1141401 | Polymer Processing & Mold Design             | 17-05-2019 | 23-05-2019 | S.V.C.           |
| 13 <sup>th</sup> May, Monday | Statistics          | IV | 2371402 | Real Analysis and Numerical Analysis         | 17-05-2019 | 23-05-2019 | Hindu College    |
| 13 <sup>th</sup> May, Monday | Zoology             | IV | 2231401 | Physiology: Life Sustaining Systems          | 17-05-2019 | 23-05-2019 | M.H.             |

**14<sup>th</sup> May, Tuesday**

|                               |                    |    |         |   |            |            |               |
|-------------------------------|--------------------|----|---------|---|------------|------------|---------------|
| 14 <sup>th</sup> May, Tuesday | Biochemistry       | IV | 2491401 | Human Physiology  | 17-05-2019 | 24-05-2019 | S.V.C.        |
| 14 <sup>th</sup> May, Tuesday | Biomedical Science | IV | 2581403 | Medical Biochemistry  | 17-05-2019 | 24-05-2019 | S.V.C.        |
| 14 <sup>th</sup> May, Tuesday | Botany             | IV | 2161402 | Reproductive Biology of Angiosperms   | 17-05-2019 | 24-05-2019 | M.H.          |
| 14 <sup>th</sup> May, Tuesday | Chemistry          | IV | 2171401 | Organic: Compounds, Containing Active Methylene, Nitrogen Containing Functional Groups; Polynuclear Hydrocarbons and Heterocycles | 17-05-2019 | 24-05-2019 | Hindu College |
| 14 <sup>th</sup> May, Tuesday | Computer Science   | IV | 2341401 | Design and Analysis of Algorithms   | 17-05-2019 | 24-05-2019 | K.M.V.        |

|                               |                     |    |         |   |            |            |                  |
|-------------------------------|---------------------|----|---------|---|------------|------------|------------------|
| 14 <sup>th</sup> May, Tuesday | Electronics Science | IV | 2511403 | Electronic Instrumentation                            | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Food Technology     | IV | 2201403 | Food Quality and Sensory Evaluation                   | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Home Science        | IV | 2201405 | Personal Finance and Consumer Studies                 | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Instrumentation     | IV | 2511404 | Linear Integrated Circuits                            | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Mathematics         | IV | 2351401 | Analysis-III (Riemann Integration & Series Functions) | 17-05-2019 | 24-05-2019 | Maitreyi College |
| 14 <sup>th</sup> May, Tuesday | Microbiology        | IV | 2531403 | Cell Biology  | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Physics             | IV | 2221402 | Mathematical Physics-III                              | 17-05-2019 | 24-05-2019 | <b>K.M.V.</b>    |
| 14 <sup>th</sup> May, Tuesday | Polymer Science     | IV | 1141402 | Polymer Testing                                       | 17-05-2019 | 24-05-2019 | S.V.C.           |
| 14 <sup>th</sup> May, Tuesday | Statistics          | IV | 2371403 | Probability and Statistical Methods-IV                | 17-05-2019 | 24-05-2019 | Hindu College    |
| 14 <sup>th</sup> May, Tuesday | Zoology             | IV | 2231402 | Comparative Anatomy of Vertebrates                    | 17-05-2019 | 24-05-2019 | M.H.             |

### 15<sup>th</sup> May, Wednesday

|                                 |  |    |         |  |            |            |                  |
|---------------------------------|--|----|---------|--|------------|------------|------------------|
| 15 <sup>th</sup> May, Wednesday | Biochemistry                               | VI | 2491602 | Immunology   | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Biomedical Science                         | VI | 2581602 | Toxicology   | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Botany                                     | VI | 2161602 | Advanced Cell and Molecular Biology                                      | 20-05-2019 | 27-05-2019 | M.H.             |
| 15 <sup>th</sup> May, Wednesday | Chemistry                                  | VI | 2171602 | Theory Physical: Quantum Chemistry, Photochemistry and Surface Chemistry | 20-05-2019 | 27-05-2019 | Hindu College    |
| 15 <sup>th</sup> May, Wednesday | Computer Science                           | VI | 2341602 | Systems Programming and Compiler Design                                  | 20-05-2019 | 27-05-2019 | K.M.V.           |
| 15 <sup>th</sup> May, Wednesday | Electronics Science                        | VI | 2513602 | Control Systems  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Food Technology                            | VI | 2201606 | Food Safety and Regulations  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Home Science                               | VI | 2201602 | Space Planning and Design  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Instrumentation                            | VI | 2511606 | Control Systems  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Mathematics                                | VI | 2351602 | Analysis-IV (Metric Spaces)  | 20-05-2019 | 27-05-2019 | Maitreyi College |
| 15 <sup>th</sup> May, Wednesday | Microbiology                               | VI | 2531602 | Microbial Biotechnology  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Physics                                    | VI | 2221602 | Quantum Mechanics & Applications-II                                      | 20-05-2019 | 27-05-2019 | K.M.V.           |
| 15 <sup>th</sup> May, Wednesday | Polymer Science                            | VI | 1141602 | Recycling & Waste Management   | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 15 <sup>th</sup> May, Wednesday | Statistics                                 | VI | 2371602 | Design of Experiments  | 20-05-2019 | 27-05-2019 | Hindu College    |
| 15 <sup>th</sup> May, Wednesday | Zoology                                    | VI | 2231602 | Bioinformatics and Biostatics  | 20-05-2019 | 27-05-2019 | M.H.             |
| 15 <sup>th</sup> May, Wednesday | Physical and Education and Sports Sciences | VI | 2551602 | Test, Measurement & Evaluation   | 20-05-2019 | 27-05-2019 | S.V.C.           |

### 16<sup>th</sup> May, Thursday

|                                |                    |    |         |                                |            |            |        |
|--------------------------------|--------------------|----|---------|--------------------------------|------------|------------|--------|
| 16 <sup>th</sup> May, Thursday | Biochemistry       | IV | 2491402 | Geno Expression and Regulation | 20-05-2019 | 27-05-2019 | S.V.C. |
| 16 <sup>th</sup> May, Thursday | Biomedical Science | IV | 2581401 | Medical Microbiology           | 20-05-2019 | 27-05-2019 | S.V.C. |

|                                |                     |    |         |  |            |            |                  |
|--------------------------------|---------------------|----|---------|--|------------|------------|------------------|
| 16 <sup>th</sup> May, Thursday | Botany              | IV | 2161401 | Concept of Genetics                                | 20-05-2019 | 27-05-2019 | M.H.             |
| 16 <sup>th</sup> May, Thursday | Chemistry           | IV | 2171403 | Physical Electro-Chemistry                         | 20-05-2019 | 27-05-2019 | Hindu College    |
| 16 <sup>th</sup> May, Thursday | Computer Science    | IV | 2341402 | Software Engineering                               | 20-05-2019 | 27-05-2019 | K.M.V.           |
| 16 <sup>th</sup> May, Thursday | Electronics Science | IV | 2511402 | Signals & Systems                                  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Food Technology     | IV | 2201401 | Processing of Animal Foods                         | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Home Science        | IV | 2201406 | Life Sciences                                      | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Instrumentation     | IV | 2511405 | Measurement Science & Techniques                   | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Mathematics         | IV | 2351403 | Differential Equations-II (P.D.E. & System of ODE) | 20-05-2019 | 27-05-2019 | Maitreyi College |
| 16 <sup>th</sup> May, Thursday | Microbiology        | IV | 2531402 | Molecular Biology                                  | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Physics             | IV | 2221403 | Analog Systems and Applications                    | 20-05-2019 | 27-05-2019 | K.M.V.           |
| 16 <sup>th</sup> May, Thursday | Polymer Science     | IV | 1141403 | Polymer Blends and Composites                      | 20-05-2019 | 27-05-2019 | S.V.C.           |
| 16 <sup>th</sup> May, Thursday | Statistics          | IV | 2371401 | Statistical Computing using C                      | 20-05-2019 | 27-05-2019 | Hindu College    |
| 16 <sup>th</sup> May, Thursday | Zoology             | IV | 2231403 | Biochemistry of Metabolic Processes                | 20-05-2019 | 27-05-2019 | M.H.             |

#### 17<sup>th</sup> May, Friday

|                              |   |    |         |   |            |            |                  |
|------------------------------|---|----|---------|---|------------|------------|------------------|
| 17 <sup>th</sup> May, Friday | Biochemistry                              | VI | 2491604 | Advanced Techniques and Technologies        | 21-05-2019 | 28-05-2019 | S.V.C.           |
| 17 <sup>th</sup> May, Friday | Biomedical Science                        | VI | 2581604 | Computational Biology and Drug Design       | 21-05-2019 | 28-05-2019 | S.V.C.           |
| 17 <sup>th</sup> May, Friday | Botany                                    | VI | 2161604 | Functional Plant Biology                    | 21-05-2019 | 28-05-2019 | M.H.             |
| 17 <sup>th</sup> May, Friday | Chemistry                                 | VI | 2171604 | Theory Organic: Chemistry of Biomolecules   | 21-05-2019 | 28-05-2019 | Hindu College    |
| 17 <sup>th</sup> May, Friday | Home Science                              | VI | 2201604 | Development in Adolescence and Adulthood    | 21-05-2019 | 28-05-2019 | S.V.C.           |
| 17 <sup>th</sup> May, Friday | Mathematics                               | VI | 2351604 | Calculus of Variations & Linear Programming | 21-05-2019 | 28-05-2019 | Maitreyi College |
| 17 <sup>th</sup> May, Friday | Microbiology                              | VI | 2531604 | Advanced Microbiology                       | 21-05-2019 | 28-05-2019 | S.V.C.           |
| 17 <sup>th</sup> May, Friday | Physics                                   | VI | 2221604 | Statistical Mechanics                       | 21-05-2019 | 28-05-2019 | K.M.V.           |
| 17 <sup>th</sup> May, Friday | Statistics                                | VI | 2371604 | Bio-Statistics                              | 21-05-2019 | 28-05-2019 | Hindu College    |
| 17 <sup>th</sup> May, Friday | Zoology                                   | VI | 2231604 | Biotechnology-Microbes to Animals           | 21-05-2019 | 28-05-2019 | M.H.             |
| 17 <sup>th</sup> May, Friday | Physical and Education and Sports Science | VI | 2551604 | Management in Physical Education & Sports   | 21-05-2019 | 28-05-2019 | S.V.C.           |

#### 20<sup>th</sup> May, Monday

|                              |                     |      |         |  |            |            |        |
|------------------------------|---------------------|------|---------|--|------------|------------|--------|
| 20 <sup>th</sup> May, Monday | Computer Science    | VIII | 2341802 | Mobile Application on Android Platform | 24-05-2019 | 30-05-2019 | K.M.V. |
| 20 <sup>th</sup> May, Monday | Electronics Science | VIII | 2511802 | Modern Communication System            | 24-05-2019 | 30-05-2019 | S.V.C. |
| 20 <sup>th</sup> May, Monday | Food Technology     | VIII | 2201802 | Nutraceuticals and Functional Foods    | 24-05-2019 | 30-05-2019 | S.V.C. |
| 20 <sup>th</sup> May, Monday | Instrumentation     | VIII | 2511806 | Process Control Dynamics               | 24-05-2019 | 30-05-2019 | S.V.C. |
| 20 <sup>th</sup> May, Monday | Polymer Science     | VIII | 1141802 | Polymeric Nanomaterials                | 24-05-2019 | 30-05-2019 | S.V.C. |

**21<sup>st</sup> May, Tuesday**

|                               |   |    |         |   |            |            |                  |
|-------------------------------|---|----|---------|---|------------|------------|------------------|
| 21 <sup>st</sup> May, Tuesday | Biochemistry                              | VI | 2491603 | Molecular Basis of Infectious Diseases  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Biomedical Science                        | VI | 2581603 | Genome Organization and Function-II   | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Botany                                    | VI | 2161603 | Plant Biotechnology   | 25-05-2019 | 31-05-2019 | M.H.             |
| 21 <sup>st</sup> May, Tuesday | Chemistry                                 | VI | 2171603 | Theory Section A-Inorganic: Chemistry of Inorganic Solids, Nanomaterial<br>Section-B-Physical: Molecular Spectroscopy | 25-05-2019 | 31-05-2019 | Hindu College    |
| 21 <sup>st</sup> May, Tuesday | Computer Science                          | VI | 2341603 | Network Programming   | 25-05-2019 | 31-05-2019 | K.M.V.           |
| 21 <sup>st</sup> May, Tuesday | Electronics Science                       | VI | 2511603 | Engineering Mathematics-II  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Food Technology                           | VI | 2201607 | Analytical Instrumentation  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Home Science                              | VI | 2201603 | Participatory Development and Training  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Instrumentation                           | VI | 2511607 | Biomedical Instrumentation  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Mathematics                               | VI | 2351603 | Differential Equations-III  | 25-05-2019 | 31-05-2019 | Maitreyi College |
| 21 <sup>st</sup> May, Tuesday | Microbiology                              | VI | 2531603 | Bioinformatics  | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Physics                                   | VI | 2221603 | Mathematical Physics-IV   | 25-05-2019 | 31-05-2019 | K.M.V.           |
| 21 <sup>st</sup> May, Tuesday | Polymer Science                           | VI | 1141603 | Conducting Polymers   | 25-05-2019 | 31-05-2019 | S.V.C.           |
| 21 <sup>st</sup> May, Tuesday | Statistics                                | VI | 2371603 | Econometrics  | 25-05-2019 | 31-05-2019 | Hindu College    |
| 21 <sup>st</sup> May, Tuesday | Zoology                                   | VI | 2231603 | Molecular Biology   | 25-05-2019 | 31-05-2019 | M.H.             |
| 21 <sup>st</sup> May, Tuesday | Physical and Education and Sports Science | VI | 2551603 | Fundamental of Sports Training  | 25-05-2019 | 31-05-2019 | S.V.C.           |

NOTE:- DATE-SHEET FOR ALLIED COURSES IS SEPARATELY GIVEN AND SCHEDULED DURING AFTERNOON SESSION (3:00PM).  
Students who have failed in the II<sup>nd</sup> year, they can only appear for IV semester as per date-sheet.

*All information related with datesheet like Modification, Updation etc. shall only be notified on official website of University of Delhi i.e. [www.du.ac.in](http://www.du.ac.in).*

*Information given only on the University website i.e. [www.du.ac.in](http://www.du.ac.in) shall be considered official.*

*Sd/-  
(Prof. Vinay Gupta)  
Dean (Examinations)*

*Delhi, the ....., 2019*