गुरू घासीदास विश्वविद्यालय (केदीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत स्वापित केदीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)

04.



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

# List of New Course(s) Introduced

| Depar   | rtment        | : Civil Engineering                        |
|---------|---------------|--|
| Progr   | amme Name     | : B.Tech.                                  |
|         |               | Academic Year : <mark>2016-17</mark>       |
| List of | f New Course( | s) Introduced                              |
| Sr. No. | Course Code   | Name of the Course                         |
| 01.     | CE4THS03      | ENGINEERING ECONOMICS                      |
| 02.     | CE4TPC03      | BUILDING PLANNING & DRAWING                |
| 03.     | CE4TBS06      | NUMERICAL ANALYSIS & COMPUTER APPLICATIONS |

CE4LBS03 NUMERICAL ANALYSIS & COMPUTER APPLICATIONS LAB

गरू घासीदास विश्वविद्यालय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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## Minutes of Meetings (MoM) of Board of Studies (BoS)

## Academic Year : 2016-17

School : School of Studies of Engineering and Technology

Department : Civil Engineering

Date and Time : *May* 16, 2016 11:00 am

fice chamber of the HOD, Civil Engg. Venue : 0

> DEPARTMENT OF CIVIL ENGINEERING, INSTITUTE OF TECHNOLOGY, GGV MINUTES OF MEETING

Meeting of Board of Studies, (notified vide letter No 69/BOS/Meeting/Civil Engg/2016, Bsp., dtd.12-05-16) of the Department of Civil Engg., IT, GGV has been held today on 16th May 2016, at 11:00 AM in the office chamber of the HOD, Civil Engg. Following members were present in the meeting:

- 1) Dr. Shailendra Kumar Professor & Head, CED, ITGGV
- Professor& Head , CED, NIT Raipur 2) Dr. U. K.Dewangan
- 3) Dr. M. Chakradhar Rao Asso. Professor , CED, IT, GGV
- 4) Mr. N. K. Verma Asst. Professor, CED, IT, GGV Asst. Professor , Pure&Applied Mathematics
- 5) Dr. Sandeep Singh Asst. Professor, Pure&Applied Mathematics
- 6) Dr. C. P. Dhuri
- 7) Dr. S. Kispotta

Chairman, BOS External Subject Expert Member Member Special Invitee Special Invitee Special Invitee

As per the approval of the competent authority, the above special invitee attended the BoS meeting. In the meeting, the course scheme and syllabi as per CBCS B.Tech. ordinance (effective from session 2015-16) was discussed. Letter No. 50/Acad/2016 dated 10-05-2016 was also placed in the meeting. As per the letter dated 10-05-2016 one member from industry/corporate has to be included in the Board of Studies of the Department. As the new session is to start from 1st July 2016 and this BoS meeting was pre-scheduled for 16/05/2016, the members discussed the scheme and detailed syllabi, proposed for the B.Tech. 2<sup>nd</sup> year Cívil Engg. (III and IV Semesters), as per choice based credit system (CBCS).

Asst. Professor, Department of Economics

However, the Course scheme and detailed syllabi for B.Tech. V Semester to VIII Semester will be taken up in the next Departmental BoS meeting after inclusion of one member from industry/corporate in the BoS as per the letter no.50/Acad/2016 dated 10-05-2016.

As such, members recommended and approved the Course scheme and syllabi for B.Tech. 2rd year Civil Engg. (III & IV Semester) to be effective from session 2016-17 and onwards.

5120 Prof. Shailen Prof.U: K angan M. Chakradhara Rao 05/16. Mr. N. K. Verma Dr. Sandeep Singh Dr. S. Kispotta

New Course Introduced

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनेयम 2009 ज्ञ. 25 के अंतर्गत खावित केन्न्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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The following new courses were introduced in the of B. Tech. 2nd year (III and IV semesters) scheme and syllabi :

- ✤ ENGINEERING ECONOMICS (CE4THS03)
- BUILDING PLANNING & DRAWING (CE4TPC03)
- ✤ NUMERICAL ANALYSIS & COMPUTER APPLICATIONS (CE4TBS06)
- NUMERICAL ANALYSIS & COMPUTER APPLICATIONS LAB (CE4LBS03)

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HOD तिविल इंजीनियरी विषाग Department of Civil Engineeriny प्रौ. त. नु.या. विस्वविद्यालय, बिलाबपुर (छ.ग.) I.T., G.G.V. Bilaspur (C.G.)

Signature & Seal of HoD

गुरू घासीदास विश्वविद्यालय (केदीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत स्वापित केदीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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## **Scheme and Syllabus**

|        |          | C                                    | -    |        | -    |     | _     |         |            |       |     |     |         |
|--------|----------|--------------------------------------|------|--------|------|-----|-------|---------|------------|-------|-----|-----|---------|
|        |          | Course Scheme for<br>(Effective from |      |        |      |     |       |         | ,GGV       | •     |     |     | •       |
| III SE | MESTER E | 3.TECH. (CIVIL ENGG.)                |      |        |      |     |       | Evaluat | ion Scheme |       |     |     |         |
|        | Subject  | Subjects                             | Peri | ods /V | Veek |     |       |         |            |       |     | Gra |         |
| SI No  | Code     |                                      |      |        |      |     | Inter | mal Ass | Prectical  | Tutal | ESE | Tat | Credits |
|        |          | Theory                               |      | *      | *    | CL, | MSE*  | 18.0    | 14'        |       |     | *   |         |
| 1      | CE3TPC01 | Fluid Mechanics-I                    | 3    | 0      | 0    | 10  | 20    | 10      |            | 40    | 60  | 100 | 3       |
| 2      | CE3TES05 | Strength of Materials                | 3    | 1      | 0    | 10  | 20    | 10      |            | 40    | 60  | 100 | 4       |
| 3      | CE3TBS05 | Engineering Mathematics-III          | 3    | 0      | 0    | 10  | 20    | 10      | -          | 40    | 60  | 100 | 3       |
| 4      | CE3TES06 | Building Materials &<br>Construction | 3    | 1      | 0    | 10  | 20    | 10      |            | 40    | 60  | 100 | 4       |
| 5      | CE3TPC02 | Surveying-I                          | 3    | 0      | 0    | 10  | 20    | 10      |            | 40    | 60  | 100 | 3       |
|        |          | Practical                            |      |        |      |     |       |         |            |       |     |     |         |
| 1      | CE3LPC01 | Surveying-I Lab                      | 0    | 0      | 3    | -   |       |         | 30         | 30    | 20  | 50  | - 2     |
| 2      | CE3LPC02 | Fluid Mechanics Lab                  | 0    | 0      | 3    |     | -     | -       | 30         | 30    | 20  | 50  | 2       |
| 2      | CE3LESO5 | Material Testing Lab                 | 0    | 0      | 3    |     |       |         | 30         | 30    | 20  | 50  | 2       |

### IV SEMESTER B.TECH. (CIVIL ENGG.)

|       |          | Subjects  |   | Period  | is |     | 3                | Evalua          | tion Schem | e     |       |         |         |
|-------|----------|---|---|---------|----|-----|------------------|-----------------|------------|-------|-------|---------|---------|
| SI No | Subject  |   |   | /Wee    | k  |     | Inter            | mal As          | sessment   |       | ESE   | Grand   | Credits |
| 31110 | Code     |   |   |         |    | -   | Theory           |                 | Practical  | Total |       | Total   |         |
|       | -        | Theory  | Ľ | 72      | P3 | CL, | MSE <sup>4</sup> | TA <sup>6</sup> | LA'        |       |       |         |         |
| ~     | CE4THS03 | Engineering Economics                             | 3 | 0       | 0  | 10  | 20               | 10              |            | 40    | 60    | 100     | 3       |
| 2     | CE4TPC03 | Building Planning & Drawing                       | 3 | 0       | 0  | 10  | 20               | 10              | -          | 40    | 60    | 100     | 3       |
| 3     | CE4TBS06 | Numerical Analysis &<br>Computer Applications     | 3 | 0       | 0  | 10  | 20               | 10              |            | 40    | 60    | 100     | 3       |
| 4     | CE4TPC04 | Surveying-II                                      | 3 | 0       | 0  | 10  | 20               | 10              | •          | 40    | 60    | 100     | 3       |
| 5     | CE4TPC05 | Structural Analysis-I                             | 3 | 1       | 0  | 10  | 20               | 10              |            | 40    | 60    | 100     | 4       |
| 6     | CE4TPC06 | Fluid Mechanics-II                                | 3 | 0       | 0  | 10  | 20               | 10              | -          | 40    | 60    | 100     | 3       |
|       |          | Practical   |   | · · · · |    |     |                  |                 |            |       |       |         |         |
| 1     | CE4LPC03 | Civil Engineering Drawing                         | 0 | 0       | 3  |     |                  |                 | - 30       | 30    | 20    | 50      | 2       |
| 2     | CE4LPC04 | Surveying-II Lab                                  | 0 | 0       | 3  | -   |                  |                 | - 30       | 30    | 20    | 50      | 2       |
| 3     | CE4LBS03 | Numerical Analysis &<br>Computer Applications Lab | 0 | 0       | 3  |     |                  |                 | - 30       | 30    | 20    | 50      | 2       |
|       |          |   |   |         |    |     |                  |                 |            |       | Total | Credits | 25      |

<sup>4</sup>-Lecture Hours, <sup>2</sup>-Tutorial Hours, <sup>1</sup>- Practical Hours, <sup>4</sup>- Mid Sem. Exam, <sup>3</sup>-Class Test, <sup>4</sup>-Teacher Assessment (Attendance & Assignments), <sup>7</sup>-Lab Work Assessment

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New Course Introduced

Criteria - I (1.2.1)

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|  |  | CIVIL ENGG. I   | IT GGV.   |   |  |  |  |  | CRCC                               |
|--|--|---|---|---|--|--|--|--|------------------------------------|
|  |  |   |   |   |  |  |  |  | CBCS                               |
| SYLLABUS   | (SEMESTER-IV)  |   |   |   |  |  |  |  |                                    |
| Subject Code:  | CE4THS03   | Г   | CRED  |   | -  |  |  |  |                                    |
| subject:   | Engineering Economics  | -   | CREDI   |   |  | SESSIC   |  |  | ESE                                |
|  |  | -   | 3 -   | P   | CT<br>10   | MSE<br>20  | TA<br>10   | TOTAL  | -                                  |
| Jnit 2: Public Se<br>ndustrial policie<br>RR, Payback per<br>Init 3: Monetar<br>Init 4: Business<br>Ven Analysis.<br>Init 5: Indian ec<br>oll of Plans, Ref<br>ext/Reference E<br>Mankiw Grego<br>V. Mote, S. Pau<br>Misra, S.K. and | ry N.(2002), Principles of<br>ul, G. Gupta(2004), Mana<br>I Puri (2009), Indian Econ | economics, Ce<br>veber & surgen<br>mpact on the e<br>techniques., C<br>employment-F<br>period.<br>Economics, Th<br>gerial Econom<br>omy, Himalaya | contral and<br>tral and<br>tral and<br>cost and<br>cost and<br>Poverty,<br>hompsor<br>ics, Tata | ns in d<br>I comm<br>ce theo<br>r, Inflat<br>Revenu<br>Region | ifferen<br>iercial<br>ry, inv<br>ion, B<br>ie Ana<br>al Disp | nd Supp<br>t types<br>marks<br>estmer<br>usiness<br>lysis, C<br>parities | oly – o<br>of m<br>and th<br>t ana<br>Cycle<br>apita | arket<br>heir funct<br>Ilysis-NPV<br>e, Cash Fl<br>I Budget, | ions,<br>, ROI,<br>ow-2,3<br>Break |
| PareekSaroj (2   | 003), Textbook of Busine   | A.  | Sunrise   | 4   | ers  |  | 87   | ç)16   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 610  | ç116   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 610  | ç116   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 8-610<br>A   | ç116   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 610  | ç116   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 5-610  | ç)16   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 87<br>87   | ç116   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 8-10-10-   | ç)16   |                                    |
| PareekSaroj (2   | AM JELIL   | A.  | 1º  | 4   | ers  |  | 8-610<br>F   | ç116   |                                    |

Criteria – I (1.2.1)

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|                           | 0                                      | IVIL EN | IGG. IT GGV |       |    |    |        |     |       |      |
|---------------------------|--|---------|-------------|-------|----|----|--------|-----|-------|------|
|                           |  |         |             |       |    |    |        |     |       | CBCS |
| ABUS                      | SEMESTER NO                            |         |             |       |    |    |        |     |       |      |
| SYLLABUS<br>Subject Code: | _ (SEMESTER-IV)<br>CE4TPC03            |         |             |       |    |    |        |     |       |      |
| subject:                  | <b>Building Planning &amp; Drawing</b> |         | CR          | EDITS | :3 |    | SESSIC | NAL | TA    | ESE  |
|                           | 5                                      |         | L           | T     | P  | CT | MSE    | TA  | TOTAL |      |
|                           |  |         | 3           | -     |    | 10 | 20     | 10  | 40    | 60   |

UNIT - I Principles of building Planning;

UNIT – II BUILDING BYELAWS AND REGULATIONS: Introduction – Terminology – Objectives of building byelaws – Floor Area Ratio (FAR) – Floor Space Index (FSI) – Principles underlying building byelaws – classification of buildings – Open space requirements – built up area limitations – Height of Buildings – Wall thickness – lighting and ventilation requirement. UNIT – III RESIDENTIAL & PUBLIC BUILDINGS: Minimum standards for various parts of residential and public buildings – requirements of different rooms and their grouping – characteristics of various types of residential buildings.

UNIT – IV SIGN CONVENTIONS AND BONDS: Brick, Stone, Plaster, Sand filling, Concrete, Glass, Steel, Cast iron, Copper alloys, Aluminum alloys etc., Lead, Zinc, tin, white lead etc., Earth, Rock, Timber and Marble. English bond & Flemish bond odd & even courses for one, one and half, two and two and half brick walls in thickness at the junction of a corner.

### Part-B (40% weight age)

UNIT – V BUILDING DRAWING: Preparation of plan, elevation and section of residential buildings-single storey (load bearing structures), double storey (R.C.C.Framed structure) by using principles of planning and local building bye- laws. For this unit students have to draw the problem on the drawing sheet in the examination.

Text books: 1. Building planning designing and scheduling, (5th Edition) by Gurucharan Singh and Jagadish Sing, Standard Publications Distributers, Delhi, 2010.

 Building planning and drawing, (3rdedition) by Kumara Swami N., Anand Charotar Publishing House Pvt Ltd, 2010.

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गुरू घासीदास विश्वविद्यालय (केन्नीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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|                                       | CIVILEN  | IGG. IT GG\ | Ι.    |      |    |        |      |       | CBCS |
|---------------------------------------|--|-------------|-------|------|----|--------|------|-------|------|
| SYLLABUS<br>Subject Code:<br>Subject: | (SEMESTER-IV)<br>CE4TBS06<br>Numerical Analysis & Computer | CR          | EDITS | 5: 3 |    | SESSIC | ONAL | - IA  | ESE  |
|                                       | Applications   | ·L          | T     | · P  | CT | MSE    | TA   | TOTAL | -    |
|                                       |  | 3           | 0     | -    | 10 | 20     | 10   | 40    | 60   |

UNIT – I Approximations and Errors in Computation: Errors and their analysis, Types of errors Curve fitting : Method of Least squares, fitting of a straight line, polynomial fit: Non linear Regression (second degree parabola), Numerical Solution of Algebraic and Transcendental Equations: Secant Method, Regulafalsi Method, Newton Raphson Method, Solution of a system of simultaneous linear algebraic Equations Direct method: Gauss elimination Method, Gauss Jordan method, Iterative methods. Jacobi Iterative Method, Gauss Seidel Iterative method.

UNIT – II The Calculus of Finite Differences: Finite differences, Difference formula, operators and relation between operators. Inverse Operator, Interpolation with equal intervals: - Newton's forward and backward interpolation formula. Interpolation with Unequal intervals: - Lagrange's interpolation Newton's difference formula, inverse interpolation,

UNIT -III Numerical Differentiation and Integration: - Numerical Differentiation Newton's forward and Backward difference interpolation formula. Maxima and Minima of a Tabulated function, Numerical Integration :- Trapezoidol rule, simpson is (1/3)rd and (3/8) th rule, Boole's rule, weddle rule, Difference Equations -: Definition, order and degree of a difference equation., Linear difference equations, Difference equations reducible to Linear form. simultaneous difference equations with constant coefficients

UNIT – IV Numerical solution of ordinary differential equation : Taylor series method , Euler's method, Modified Euler method Runge's method RungeKutta method ,. Numerical solution of partial differential Equations : Classification of P.D.E. of the second order Elliptic equations , solution of Laplace equation , solution of poisson's Equation, solution of elliptic equations by Relaxation method parabolic equations ,

#### UNIT-V

Programming in ANSI 'C' language: Overview of 'C', Constants, Variables, Data types, Operators and Expression, Decision making and Branching, Decision making and looping, Arrays, Programs in C or C++ language.

Name of Text Books:

- 1. JAIN & IYNGAR Numerical Methods for Scientific and Engineering Computations.
- 2. RAO G.S. Numerical Anlysis.
- 3. Grewal B S Numerical Methods In Engineering and Science.
- 4. Das K K Advance Engineering Methods.
- 5. Rajaraman V Computer Oriented Numerical Methods
- 6. E Balagurusamy-Programming in ANSI 'C'



New Course Introduced

Criteria – I (1.2.1)

गुरू घासीदास विश्वविद्यालय (केन्रीय विस्तरीवालर अधिनेयन 2008 क्र. 25 के अंतर्गत स्वारित केन्नीय क्रिवविवालर) कोनी, बिलासपुर - 495009 (छ.ग.)



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| The subject Numerical Analysis & Computer Applications (CE44ESO3)<br>menting based on C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE44ESO3)<br>Market C of C++ for the numerical methods given in the subject Numerical Analysis | Analysis & Computer Applications Lab<br>et:<br>$\frac{1}{1} + \frac{1}{2} + \frac{1}{14} + $ | Petrover<br>Numerical Analysis & Computer Applications Lab<br>petrover<br>petrover<br>transitions (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perming based on C of 'C++ for the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LESO3)<br>perminer to the numerical methods given in the subject Numerical Analysis & Computer Applications (CE4LE | Peter Numerical Analysis & Computer Applications Lab<br>et<br>T T P IA Mose TOTAL |            | CIVIL ENGG.   | II GGV. |       | _    |       |          |              |            | CBCS  |
|--|---|--|---|------------|---|---------|-------|------|-------|----------|--------------|------------|-------|
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New Course Introduced

Criteria – I (1.2.1)

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