

**basic education**Department:
Basic Education
REPUBLIC OF SOUTH AFRICA**NATIONAL SENIOR CERTIFICATE (NSC)
OCTOBER/NOVEMBER EXAMINATIONS TIMETABLE – 2024
(Amended as at 14 June 2024)**

WEEK 1	09:00	14:00
Monday 21/10	English HL P3 (3hrs) English FAL P3 (2½hrs) English SAL P3 (2½hrs)	Afrikaans HL P3 (3hrs) Afrikaans FAL P3 (2½hrs) Afrikaans SAL P3 (2½hrs)
Tuesday 22/10	Computer Applications Tech P1 (3hrs) Practical	Arabic, French, Italian, Mandarin, Modern Greek, Serbian, Spanish SAL P1 (2hrs) Latin SAL P1 (3hrs) Portuguese HL, FAL, SAL P1 (2hrs) Hebrew SAL P1 (2hrs), German HL, SAL P1 (2hrs)
Wednesday 23/10	Business Studies P1 (2hrs)	Information Technology P1 (3hrs) Practical
Thursday 24/10	isiZulu, isiXhosa, siSwati, isiNdebele HL P3 (3hrs), FAL P3 (2½hrs), SAL P3 (2½hrs)	Hindi, Gujarati, Tamil, Telugu, Urdu HL P1 (2hrs) Hindi, Gujarati, Tamil, Telugu, Urdu FAL P1 (2hrs) Hindi, Gujarati, Tamil, Telugu, Urdu SAL P1 (2hrs)
Friday 25/10	Sepedi, Sesotho, Setswana, Xitsonga, Tshivenda HL P3 (3hrs), FAL P3 (2½hrs), SAL P3 (2½hrs) South African Sign Language HL P3 (3hrs)	Arabic, Italian, Mandarin, Modern Greek, Serbian, Spanish SAL P2 (2hrs) Latin SAL P2 (2hrs) Portuguese HL P2 (2½hrs), FAL, SAL P2 (2hrs) Equine Studies (3hrs)
WEEK 2	09:00	14:00
Monday 28/10	English HL P1 (2hrs) English FAL P1 (2hrs) English SAL P1 (2hrs)	Hindi, Gujarati, Tamil, Telugu, Urdu HL P2 (2½hrs) Hindi, Gujarati, Tamil, Telugu, Urdu FAL P2 (2hrs) Hindi, Gujarati, Tamil, Telugu, Urdu SAL P2 (2hrs) Hebrew SAL P2 (2hrs) German HL P2 (2½hrs), SAL P2 (2hrs) Marine Sciences P1 (2½hrs)
Tuesday 29/10	History P1 (3hrs)	Engineering Graphics and Design P1 (3hrs) French SAL P2 (2hrs)
Wednesday 30/10	isiZulu, isiXhosa, siSwati, isiNdebele HL P1 (2hrs), FAL P1 (2hrs), SAL P1 (2hrs)	Business Studies P2 (2hrs)
Thursday 31/10	NON-EXAMINATION DAY	
Friday 01/11	Mathematics P1 (3hrs) Mathematical Literacy P1 (3hrs) Technical Mathematics P1 (3hrs)	Religion Studies P1 (2hrs) Sport and Exercise Science (3hrs)
WEEK 3	09:00	14:00
Monday 04/11	Mathematics P2 (3hrs) Mathematical Literacy P2 (3hrs) Technical Mathematics P2 (3hrs)	Hindi, Gujarati, Tamil, Telugu, Urdu HL P3 (2½hrs) FAL P3 (2½hrs) Portuguese, German HL P3 (2½hrs) Portuguese FAL P3 (2½hrs)
Tuesday 05/11	Geography (Climate and Weather, Geomorphology and Map Work) P1 (3hrs)	Computer Applications Tech P2 (Theory) (3hrs) Nautical Science P1 (3hrs)
Wednesday 06/11	Sepedi, Sesotho, Setswana, Xitsonga, Tshivenda HL P1 (2hrs), FAL P1 (2hrs), SAL P1 (2hrs) South African Sign Language HL P1 (2hrs)	Information Technology P2 (Theory) (3hrs)
Thursday 07/11	History P2 (3hrs)	Consumer Studies (3hrs) Hospitality Studies (3hrs)
Friday 08/11	Physical Sciences (Physics) P1 (3hrs) Technical Sciences P1 (3hrs)	Dramatic Arts (3hrs)

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Michael Hoelscher



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the size and complexity of designs that are analyzed and tested with abaqus continues to grow substructures and submodeling are two effective techniques that allow the analyst to study problems that are too large to simulate with a conventional modeling approach substructures are useful to break a large problem into several smaller components

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substructures are defined using the substructure generation procedure the substructure creation and usage cannot be included in the same analysis multiple substructures can be generated in an analysis any substructure can consist of one or more other substructures if this is the case the nested level substructures must be defined first

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description abaqus cae now enables you to create substructures import them into your model database add them to your assembly and recover their data during an analysis the enhancements fall into three categories substructure generation substructure usage and substructure recovery

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generating a substructure a single analysis can include multiple substructure generate steps and abaqus cae creates corresponding output database files for each step multiple preloading steps can precede every substructure generation step in your analysis

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this example shows you how to create a substructure and use it four times in the model as a leg support for storage vessel

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a substructure database is the set of files that describe the mechanical and geometrical properties of a substructure and abaqus writes all substructure data to the substructure database during the substructure generation analysis

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dec 17 2013 i have created a substructure in abaqus as output i will like to see the substructure matrices mass stiffness and damping matrices however i m only able to write the mass and stiffness matrices to an output file mtx does anyone know how to create an output file including both the mass stiffness and damping matrices of the substructure

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

2 14 1 substructuring and substructure analysis - Apr 14 2023

in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

1 16 1 analysis of a frame using substructures - Mar 13 2023

the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been